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E R R A T U M

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AVIATION TRAINING AND READINESS MANUAL, VOLUME 5,
MARINE CORPS AIR COMMAND AND CONTROL SYSTEM (MACCS)
(SHORT TITLE: T&R MANUAL, VOLUME V)

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Subj: AVIATION TRAINING AND READINESS MANUAL, VOLUME 5, MARINE AIR COMMAND AND CONTROL SYSTEM (MACCS) (SHORT TITLE: T&R MANUAL, VOLUME 5)

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1. Purpose. To revise policies, procedures, and standards regarding the training of Marine Air Command and Control System personnel.

2. Cancellation. MCO P3500.19A.

3. Summary of Revision. Each chapter of this revision was substantially changed to incorporate the tenets of the Marine Aviation Campaign Plan. The major changes are as follows:

a. Each MACCS chapter contains a unit template describing all like squadrons' core competencies, core and core plus skills, and MACCS designations.

b. All core skills are contained in the Combat Ready and Combat Qualification Phases of training. Core plus skills are in the Full-Combat Qualification Phase of training.

c. Chapter 3 is a new chapter, which specifies and directs training and readiness standards for aviators battle rostered to the Tactical Air Command Center.

d. All previous chapters dealing with the HAWK missile system have been removed due to the divestiture of the HAWK weapon system.

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

4. Action. Commanders will ensure that MACCS personnel training, qualifications, and certifications are accomplished per the instructions and guidance in this Manual and the reference.

5. Recommendations. Recommended changes to the Aviation training and Readiness Manual, Volume 5 are invited, and will be submitted via the Syllabus Sponsor and the appropriate chain of command to: Commanding General, Standards Branch (C 461A), Marine Corps Combat Development Command, 3300 Russell Rd, Quantico, VA 22134-5001

6. Reserve Applicability. This Manual is applicable to the Marine Corps Reserve.

7. Certification. Reviewed and approved this date.

T. S. JONES
By direction

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RECORD OF CHANGES

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Change Number	Date of Change	Date Entered	Signature of Person incorporated Change

CONTENTS

CHAPTER

1 TACTICAL AIR COMMAND CENTER (72XX) - OFFICER

2 TACTICAL AIR COMMAND CENTER (72XX) - ENLISTED

3 TACTICAL AIR COMMAND CENTER (75XX) - OFFICER

4 AIR DEFENSE CONTROL OFFICER (7210)

5 TACTICAL AIR DEFENSE CONTROLLER (7236)

6 AIR CONTROL ELECTRONIC OPERATOR (7234)

7 CANCELED VIA MCO P3500.55

8 CANCELED VIA MCO P3500.55

9 CANCELED VIA MCO P3500.55

10 AIR SUPPORT CONTROL OFFICER (7208)

11 DASC CREW CHIEF (7242)

12 AIR SUPPORT NET OPERATOR (7242)

13 CANCELED VIA MCO P3500.57

14 CANCELED VIA MCO P3500.57

15 CANCELED VIA MCO P3500.57

ENCLOSURES

1 T&R EVALUATION SHEETS

TACTICAL AIR COMMAND CENTER OFFICER (TACC)
(MOS 7202, 7208, 7210, 7220)

	PARAGRAPH	PAGE
INTRODUCTION	100	1-2
CORE COMPETENCIES/SKILLS.	101	1-2
SUMMARY/INDEX OF LIVE/SIMULATOR EVENTS.	102	1-7
UNIT TRAINING POLICIES.	103	1-11
TACCO TRAINING PROGRESSION PHILOSOPHY	104	1-12
TRAINING PROGRESSION MODEL FOR TACCO	105	1-12
PROGRAMS OF INSTRUCTION (POI) FOR TACCO	106	1-14
SPECIAL DESIGNATIONS	107	1-14
GROUND/ACADEMIC TRAINING	110	1-16
TRAINING REFERENCES	111	1-20
LIVE/SIMULATOR EVENT TRAINING: TACCO.	120	1-21
LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS	130	1-22
COMPONENTS OF A T&R EVENT	131	1-23
COMBAT CAPABLE TRAINING	132	1-24
COMBAT READY TRAINING	133	1-24
COMBAT QUALIFICATION TRAINING	134	1-39
FULL-COMBAT QUALIFICATION TRAINING.	135	1-49
SPECIAL SKILLS QUALIFICATION TRAINING	136	1-56
SPECIAL TRAINING REQUIREMENTS	140	1-76
EXPENDABLE ORDNANCE REQUIREMENTS	150	1-76
PROFICIENCY INTERVALS	160	1-76
EVENT UPDATE CHAINING	170	1-79

100. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop UNIT warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective Training and Readiness (T&R) program is the first step in providing the MAGTF Commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, unit training managers can construct and execute an effective training plan which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training to satisfy the training requirements of Commanders at all levels in order to accomplish their war time mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and form the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the Systems Approach to Training used in T&R development and Marine Corps UTM principles.

3. The Marine Corps Combat Readiness Evaluation System (MCCRES) and the T&R program are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills which enable units to satisfy the requirements as outlined in their applicable volume of the MCCRES.

101. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills which support the Mission Essential Tasks (METL) derived from FMFM 5-1 and T/O mission statements, which are realistically expected to be assigned in combat.

2. **MISSION**. Function as the senior MAGTF air command and control agency and serve as the operational command post for the ACE commander and his battle staff.

3. **MISSION ESSENTIAL TASK LIST**

a. Maintain and disseminate information on the enemy and friendly situation, including the aviation and ground combat information essential to the air effort.

b. Plan and coordinate the employment of ACE communications electronics information networks and means.

c. Manage employment of all aircraft and surface-to-air weapons, and sensors within, or in support of, the MAGTF area of operations.

d. Coordinate air operations between the MACCS and air command and control agencies external to the MAGTF, to include other Service/host nation agencies.

e. Develop and promulgate Air Operations Plans and Orders, to include the MAGTF Air Tasking Order (ATO).

f. Analyze and evaluate the results of MAGTF air operations.

g. Disseminate air defense warning conditions and weapons control status to all major elements of the MAGTF.

h. Provide pertinent emission control information within the area of operations.

i. Coordinate information flow within the ACE battlestaff to facilitate efficient planning and execution of MAGTF aviation operations.

j. Plan and supervise airspace coordination.

k. Support MAGTF expeditionary operations.

l. Conduct combat operations in an NBC environment.

4. **TACC CORE CAPABILITY**

a. **Current Operations Section**. A core capable TACC Current Operations Section is capable of performing the functions of command and direction, interface coordination, close/deep battle coordination, air defense coordination, and intelligence processing and dissemination. A minimum of two core capable COS crews are required to sustain and perform those functions during contingency/combat operations, assuming that all crew positions are manned and supporting MOS's are at 80%. Sufficient TADIL, voice, tactical data networks, intelligence systems, or ATO subsystem capability exists to support operational requirements. If all crew positions are not filled, those critical functions performed by that position will be degraded. The notional Current Operations Section core capable crew of the baseline TACC consists of 60 personnel as depicted in table 1-1. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14F, Aviation T&R Manual, Volume I (ADMINISTRATIVE):

Table 1-1. Notional Current Operations Section

Current Ops Section	Ground Watch Section	Intel Watch Section	COS Command Cell	COS Close Battle Cell	COS Deep Battle Cell	COS Air Defense Cell	COS Airspace Control Cell	COS Analysis Cell	COS SAR Cell	ACE Watch Section	C2 Systems Watch Section	Interface Coord/TDC Cell
Current Ops Officer	Ground Watch Officer	Intel Watch Officer	Senior Watch Officer	Close Battle Coord	Deep Battle Coord	Air Defense Coord	Airspace Control Officer (2)	Close Battle Analyst (3)	SAR Coord Officer (2)	Comm Watch Officer	C2 Systems Watch Officer	Interface Coord Officer
Asst. Current Ops Officer	Fire Support Officer	Intel Watch Chief	Senior Air Coord	Fixed Wing Tasker (2/1)	Fixed Wing Tasker (2)	Recorder	Recorder/ Plotter	Deep Battle Analyst (3)	Recorder	C2 Maint Coord	Radio Watch NCO	Track Data Coord

Current Ops Section	Ground Watch Section	Intel Watch Section	COS Command Cell	COS Close Battle Cell	COS Deep Battle Cell	COS Air Defense Cell	COS Airspace Control Cell	COS Analysis Cell	COS SAR Cell	ACE Watch Section	C2 Systems Watch Section	Interface Coord/TDC Cell
Ops Chief	Engineer Officer	Intel Analyst	Crew Chief	Rotary Wing Tasker (2/3)	UAV Tasker	Plotter		Recorder /CTAPS Operator (2)		Logistics Watch Officer	Data/Comm Tech	
Ops Clerk	Ground Watch Chief	ELINT Analyst	Recorder	UAV Tasker	Recorder					NBC Watch Officer	Wireman	
	TCO Operator			Recorder (2)	Plotter					Force Protection Watch Officer	Radio Operator	
	AFATDS Operator			Plotter (2)						ALD/ORD Watch Officer		

b. **Future Operations Section**. A core capable TACC Future Operations Section plans for and allocates available air assets by promulgating an ATO and other related planning documents within a theater-delineated timeline. One core capable FOS crew is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed by that position will be degraded. The notional Future Operations Section core capable crew of the baseline TACC consists of 44 personnel as depicted in table 1-2. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14F, Aviation T&R Manual, Volume I (ADMINISTRATIVE):

Table 1-2. Notional Future Operations Section

Ops Admin Section	Ground Watch Section	Orders Development Section	ATO Development Section	Intelligence Watch Section
Future Operations Officer	Ground Watch Officer (2)	Orders Development Officer	ATO Development Officer	Intel Watch Officer (2)
Asst. Future Operations Officer	Ground Watch Clerk (2)	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst (2)
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner (2)	
			Airspace Control Measures Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

c. **Future Plans Section**. A core capable TACC Future Plans Section is responsible to the ACE G-3 for aviation planning in support of the next MEF mission change. One core capable future plans section is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed by that position will be degraded. The notional future plans section core capable crew of the baseline TACC consists of 44 personnel as depicted in table 1-3. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14F, Aviation T&R Manual, Volume I (ADMINISTRATIVE):

Table 1-3. Notional Future Plans Section

Ops Admin Section	Ground Watch Section	Orders Development Section	ATO Development Section	Intelligence Watch Section
Future Operations Officer	Ground Watch Officer	Orders Development Officer	ATO Development Officer	Intel Watch Officer
Asst. Future Operations Officer	Ground Watch Clerk	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner	
			Air Support Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

d. **Billet-Syllabus Qualification Matrix**. Table 1-4 and 1-5 contain a billet-syllabus qualification matrix for the current and future operations sections.

Table 1-4. TACC Current Operations Section Billet-Syllabus Qualification Matrix

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
CURRENT OPERATIONS WATCH SECTION	Senior Watch Officer (SWO)	Senior Watch Officer (**SWO**)
	Senior Air Coordinator (SAC)	Senior Air Coordinator (**SAC**)
	Crew Chief (CC)	TACC Crew Chief (**TACC-CC**)

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
	Recorder	Recorder (**RCDR**)
DEEP BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (**ABT**)
	Deep Battle Coordinator	Deep Battle Coordinator (**ABC**)
	UAV Tasker	Air Battle Tasker (**ABT**)
	Fixed Wing Recorder	Recorder (**RCDR**)
	Fixed Wing Plotter	Plotter (**PLTR**)
CLOSE BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (**ABT**)
	Rotary Wing Tasker	Air Battle Tasker (**ABT**)
	UAV Tasker	Air Battle Tasker (**ABT**)
	Air Support Rep/Close Battle Coordinator	Close Battle Coordinator (**CBC**)
	Fixed Wing Recorder	Recorder (**RCDR**)
	Fixed Wing Plotter	Plotter (**PLTR**)
	Rotary Wing Recorder	Recorder (**RCDR**)
	Rotary Wing Plotter	Plotter (**PLTR**)
AIR DEFENSE COORDINATION CELL	Air Defense Coordinator (ADC)	Air Defense Coordinator (**ADC**)
	Air Defense Recorder	Recorder (**RCDR**)
	Air Defense Plotter	Plotter (**PLTR**)
AIRSPACE CONTROL CELL	Airspace Control Officer (ACO)	Airspace Control Officer(**ACO**)
	Airspace Plotter/Recorder	Plotter (**PLTR**) Recorder (**RCDR**)
INTERFACE CONTROL/ TRACK DATA CELL	Interface Coordination Officer (ICO)	Interface Coordination Officer (**ICO**)
	Track Data Coordinator (TDC)	Track Data Coordinator (**TDC**)
BATTLE DAMAGE ASSESSMENT CELL	Close Battle Analyst	Air Battle Analyst (**ABA**)
	Deep Battle Analyst	Air Battle Analyst (**ABA**)
	Recorder/CAFMS Oper	Recorder (**RCDR**)
SAR COORDINATION CELL	SRCC Officer	**SRCC**
	SRCC Recorder	Recorder (**RCDR**)

Table 1-5. TACC Future Operations Section Billet-Syllabus Qualification Matrix

FUTURE OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL

FUTURE OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
ATO DEVELOPMENT SECTION	ATO Development Officer (ATODO)	ATO Development Officer (**ATODO**)
ATO PLANNING CELL	ATO Planning Officer (ATOPLO)	ATO Planning Officer (**ATOPLO**)
	Strike Planner	ATO MSN Planner (**ATOMP**)
	EW Planner	ATO MSN Planner (**ATOMP**)
	Support Planner	ATO MSN Planner (**ATOMP**)
	UAV Planner	ATO MSN Planner (**ATOMP**)
	Airspace Control Measures Planner	ATO/ACO Planner (**AAP**)
	Air Defense Planner	ATO/ACO Planner (**AAP**)
	Air Support Planner	ATO/ACO Planner (**AAP**)
ATO PRODUCTION CELL	ATO Production Officer (ATOPRO)	ATO Production Officer (**ATOPRO**)
	SPINS/ACP/ADP Production Officer	N/A
	ATO Production Chief	N/A
	ATO Production Clerk	N/A
ORDERS DEVELOPMENT SECTION	Orders Development Officer	Orders Development Officer (**ORDO**)
	Strike Plans Officer	Orders Development Planner (**ORDP**)
	Support Plans Officer	Orders Development Planner (**ORDP**)
	C2 Plans Officer	AVN C2 Planner (**AC2P**)

102. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. COMBAT CAPABLE TRAINING. The Combat Capable Training phase of training is accomplished at the Marine Air Control Squadron and Marine Air Support Squadron through on the job training within a Marine's primary MOS. A prerequisite to personnel being assigned to the Tactical Air Command Center is the completion of the Combat Qualification Training (300 level) Syllabus for their respective MOS.

2. COMBAT READY TRAINING. Table 1-6 contains a listing of the combat readiness training events and associated page numbers.

Table 1-6. Combat Readiness Training List

EVENT	TASK	PAGE
SYS-200	Operate communications equipment	1-25

EVENT	TASK	PAGE
SYS-201	Set up a TACC for operations	1-25
SYS-202	Conduct TACC operations	1-26
SYS-203	Set up the TCO/MSBL system for operations	1-26
SYS-204	Set up BME for operations	1-26
CBC-210	Conduct Close Battle Cell planning	1-28
CBC-211	Perform as a CBC	1-28
CBC-212	Perform as a CBC	1-30
ADC-220	Conduct Air Defense planning	1-32
ADC-221	Perform as an ADC	1-32
ADC-222	Perform as an ADC	1-34
ACO-230	Conduct air traffic control planning	1-35
ACO-231	Perform ACO functions	1-36
ACO-232	Perform ACO functions	1-37
QUAL-280	Qualify the TACCO as a Close Battle Coordinator	1-30
QUAL-281	Qualify the TACCO as an Air Defense Coordinator	1-34
QUAL-282	Qualify the TACCO as an Airspace Control Officer	1-37
DESG-290	Designation as a Close Battle Coordinator	1-38
DESG-291	Designation as an Air Defense Coordinator	1-39
DESG-292	Designation as an Airspace Control Officer	1-39

3. COMBAT QUALIFICATION TRAINING. Table 1-7 contains a listing of the combat readiness training events and associated page numbers.

Table 1-7. Combat Qualification Training List

EVENT	TASK	PAGE
CBA-300	Perform targeting analysis as a CBA	1-40
CBA-301	Monitor DASC/Close Battle Cell activity	1-40
AAP-310	Conduct airspace/control measures planning	1-42
AAP-311	Conduct Air Defense planning	1-43
AAP-312	Conduct Air Support planning	1-44
ICO-320	Develop planning documents	1-46
ICO-321	Perform as an Interface Control Officer	1-47
ICO-322	Perform as an Interface Control Officer	1-47
QUAL-380	Qualify the TACCO as a Close Battle Analyst	1-41
QUAL-381	Qualify the TACCO as an ATO/ACO Planner	1-44
QUAL-382	Qualify the TACCO as an Interface Control Officer	1-48
DESG-390	Designation as a Close Battle Analyst	1-49
DESG-391	Designation as an ATO/ACO Planner	1-49

EVENT	TASK	PAGE
DESG-392	Designation as an Interface Control Officer	1-49

4. FULL COMBAT QUALIFICATION TRAINING. Table 1-8 contains a listing of the full combat qualification training events and associated page numbers.

Table 1-8. Full Combat Qualification Training List

EVENT	TASK	PAGE
SAC-400	Conduct TACC planning, embarkation, and emplacement	1-50
SAC-401	Perform as a SAC	1-51
SAC-402	Perform as a SAC	1-52
AC2P-410	Perform as an AC2 Planner	1-53
AC2P-411	Perform as an AC2 Planner	1-55
QUAL-480	Qualify the TACCO as a SAC	1-53
QUAL-481	Qualify the TACCO as an AC2 Planner	1-55
DESG-490	Designation as a SAC	1-56
DESG-491	Designation as an AC2 Planner	1-56

5. INSTRUCTOR QUALIFICATION TRAINING. None.

6. SPECIAL SKILLS TRAINING AND DESIGNATION. Table 1-9 contains a listing of the special skills training events and associated page numbers.

Table 1-9. Special Skills Qualification Training List

EVENT	TASK	PAGE
DBC-600	Conduct Deep Battle Cell Planning	1-57
DBC-601	Perform as a Deep Battle Coordinator	1-58
DBC-602	Perform as a deep Battle Coordinator	1-60
ABT-610	Perform ABT planning functions	1-61
ABT-611	Perform ABT functions	1-62
ABT-612	Perform ABT functions	1-63
SRC-620	Conduct CSAR/TRAP Planning	1-64
SRC-621	Perform as a Search and Rescue Coordinator	1-65
DBA-630	Perform Targeting Analysis as a DBA	1-67
DBA-631	Monitor Deep Battle Cell Activity	1-68
ATOPL-640	Conduct ATO Planning	1-70
ATOPL-641	Perform as an ATO Plans Officer	1-71
SWO-650	Perform as a SWO	1-72
SWO-651	Perform as a SWO	1-74
QUAL-680	Qualify the TACCO as a DBC	1-60
QUAL-681	Qualify the TACCO as an ABT	1-63

QUAL-682	Qualify the TACCO as a Search and Rescue Coordinator	1-66
QUAL-683	Qualify the TACCO as a DBA	1-69
QUAL-684	Qualify the TACCO as an ATO Plans Officer	1-71
QUAL-685	Qualify the TACCO as a SWO	1-74
DESG-690	Designate the TACCO as a DBC	1-75
DESG-691	Designate the TACCO as a ABT	1-75
DESG-692	Designate the TACCO as a SRC	1-75
DESG-693	Designate the TACCO as a DBA	1-76
DESG-694	Designate the TACCO as a ATO Plans Officer	1-76
DESG-695	Designate the TACCO as a SWO	1-76

7. OPERATOR CORE SKILLS. Core skills are depicted in the following matrix (table 1-10) and directly support the METL for each Unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 1-10. Core Skills

	CORE TASKS/SKILLS						CORE PLUS TASKS/SKILLS		
METL	SYS	CBC	ADC	ACO	CBA	AAP	ICO	SAC	C2P
A	200 201 203 204	211 212	221 222	231 232	300 301		321 322	400 401 402	
B	200 203 204	210 211 212	220 221 222	230 231 232		310 311 312	320 321 322	400 401 402	410 411
C	200	210 211 212	220 221 222	230 231 232		310 311 312	320 321 322	401 402	410 411
D	200	210 211 212	220 221 222	230 231 232	300 301	310 311 312		400 401 402	410 411
E	203 204					310 311 312	320 321 322		410 411
F		211 212	221 222	231 232	300 301	310		401 402	410 411
G	200	211 212	221 222	231 232				401 402	
H	200	211 212	220 221 222	230 231 232			321 322	400 401 402	410 411

	CORE TASKS/SKILLS						CORE PLUS TASKS/SKILLS		
METL	SYS	CBC	ADC	ACO	CBA	AAP	ICO	SAC	C2P
I	200 203 204	210 211 212	220 221 222	230 231 232	300 301	311 312	320 321 322	400 401 402	
J	200	210 211 212	220 221 222	230 231 232		311 312	320 321 322	400 401 402	410 411
K	201 203 204	211 212	221 222	231 232				400 401 402	410 411
L	202								

103. UNIT TRAINING

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Commanding Officers will ensure that this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation unit in combat lies at the heart of the T&R program. Unit readiness and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform those critical skills required in combat is essential.

3. Commanders shall ensure that all tactical training is conducted to a MCCRES standard. The MCCRES, as outlined in MCO P3501.1, is the unit training standard, and all syllabus events shall be tailored to meet MCCRES requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors which all commanders must address include, but are not limited to:

a. **Efficiency**. Time and resources expended are measurements for training efficiency. Commanders must ensure that all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. **Individual Differences**. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. **Decentralization of Training**. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must

monitor subordinate commands to ensure safe and efficient training requirements.

5. Commanders shall provide personnel the opportunities to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit.

6. **Risk Management**. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. **MACCS Integrated System Training**. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated airspace command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEXs should focus on the establishment of necessary communications and data links between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Information Link capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

104. TACTICAL AIR COMMAND CENTER OFFICER TRAINING PROGRESSION PHILOSOPHY

1. The purpose of this syllabus is to develop and refine those skills required for the Tactical Air Command Center Officer (TACCO) to function as a Senior Air Coordinator (SAC) and/or Aviation C2 Plans Officer (AC2PO) within a core capable TACC Current Operations crew. The progression of the TACCO through the syllabus has been tailored towards that end. It is incumbent upon the squadron commander to ensure that each event is completed in accordance with each performance standard established for that event.

105. TACCO TRAINING PROGRESSION MODEL

1. The Training Progression Model for the TACCO is depicted in figure 1.1.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those qualifications an individual reports to the unit with (accession qualifications) after completion of the MOS-qualifying school. The highest tier of the progression model will contain those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable tier will in most cases be accomplished at the completion of initial MOS skills training. With successful completion of the combat capable tier, unit personnel are assigned basic MOS qualification and progress to the Combat Ready tier.

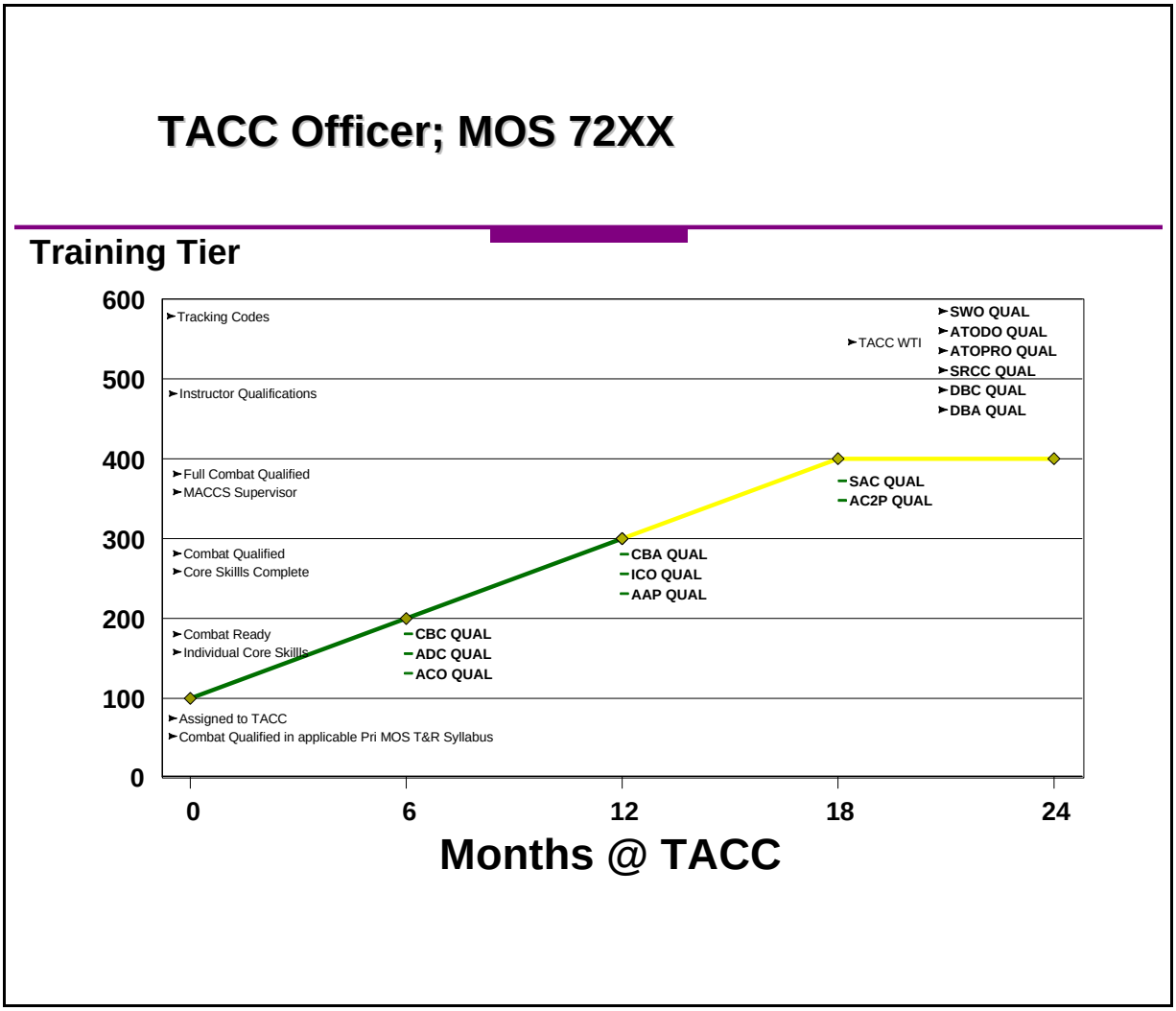


Figure 1.1. TACCO Training Progression Model

4. On the Combat Ready tier, qualifications that are normally made available to fairly inexperienced personnel will be delineated. This tier should take the individual who has completed initial MOS skills training and make him or her proficient in core competencies. With successful completion of the combat ready tier, unit personnel move to the Combat Qualification tier.

5. The Combat Qualification tier will be that portion of the model that produces combat leaders and fully qualified crewmembers. The personnel that are being trained in the combat qualification tier are those men/women a Commanding Officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Special Skill Qualification tier will contain special skills, and qualifications. These skills or qualifications are not prerequisite to combat qualification or the ability to function as combat leaders, but are those for which a certain number of trained individuals or crews must be maintained to accomplish special missions or tasks.

a. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the Commanding Officer with oversight of the unit training program.

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification of "combat ready" and "combat qualified" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

106. PROGRAMS OF INSTRUCTION (POI) FOR TACCO. There currently is no formal schools training provided for TACC personnel.

107. MISSION QUALIFICATIONS/DESIGNATIONS

1. **Tactical Air Command Center (TACC)**

a. **Current Operations Section**

(1) **Senior Watch Officer (SWO) Qualification**. A Marine Officer is SWO qualified after having completed the required events of the appropriate T&R syllabus. The officer shall be certified and designated a SWO by the MAW commander. The officer shall have a letter entered into his or her Aircrew/MACCS Performance Record stating the qualification.

(2) **Senior Air Coordinator (SAC) Qualification**. A MACCS Officer (MOS 72XX) is SAC qualified after having completed the required training events of the appropriate T&R syllabus. The MACCS Officer shall be certified as a SAC by a unit TACC WTI, or the MAWTS-1 TACC instructor and designated SAC qualified by the Wing battlestaff trainer. The officer shall have a letter entered into his or her MACCS Performance Record stating the qualification.

(3) **Close Battle Coordinator (CBC) Qualification**. A Marine Officer (MOS 72XX/75XX) is CBC qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as a CBC by a designated SAC and designated CBC qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(4) **Deep Battle Coordinator (DBC) Qualification**. A Marine Officer (MOS 72XX/75XX) is DBC qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as a DBC by a designated SAC and designated DBC qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(5) **Air Defense Coordinator (ADC) Qualification**. A Marine Officer (MOS 72XX/75XX) is ADC qualified after having completed the required

training events of the appropriate T&R syllabus. The MACCS Officer shall be certified as an ADC by a designated SAC and designated ADC qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her MACCS Performance Record stating the qualification.

(6) **Airspace Control Officer (ACO) Qualification**. A MACCS Officer (MOS 72XX) is ACO qualified after having completed the required training events of the appropriate T&R syllabus. The MACCS Officer shall be certified as an ACO by a designated SAC and designated ACO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her MACCS Performance Record stating the qualification.

(7) **Air Battle Analyst (ABA) Qualification**. A Marine Officer (MOS 72XX/75XX) is ABA qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as a ABA by a designated SAC and designated ABA qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(8) **Interface Control Officer (ICO) Qualification**. A Marine (MOS 72XX) is ICO qualified after having completed the required events of the appropriate T&R syllabus. The officer shall be certified as a ICO by a designated SAC and designated ICO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(9) **Track Data Coordinator (TDC) Qualification**. A Marine (MOS 72XX) is TDC qualified after having completed the required events of the appropriate T&R syllabus. The officer shall be certified as a TDC by a designated SAC and designated TDC qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(10) **Search and Rescue Coordination Center (SRCC) Officer Qualification**. A Marine Officer (MOS 72XX/75XX) is SRCC qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as a SRCC by a designated SAC and designated SRCC qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

b. **Future Operations Section**

(1) **ATO Development Officer (ATODO) Qualification**. A Marine Officer (MOS 99XX/72XX/75XX) is ATODO qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an ATODO by the MAW G3 and designated ATODO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(2) **ATO Production Officer (ATOPRO) Qualification**. A Marine Officer (MOS 72XX/75XX) is ATOPRO qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall

be certified as an ATOPRO by the MAW G3 and designated ATOPRO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(3) **ATO Plans Officer (ATOPLO) Qualification**. A Marine Officer (MOS 72XX/75XX) is ATOPLO qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an ATOPLO by the MAW G3 and designated ATOPLO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(4) **Orders Development Officer (ORDO) Qualification**. A Marine Officer (MOS 99XX/72XX/75XX) is ORDO qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an ORDO by the MAW G3 and designated ORDO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(5) **Orders Development Planner (ORDP) Qualification**. A Marine Officer (MOS 99XX/72XX/75XX) is ORDP qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an ORDP by the MAW G3 and designated ORDP qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(6) **ATO/ACO Planner (AAP) Qualification**. A Marine Officer (MOS 72XX/75XX) is AAP qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an AAP by the MAW G3 and designated AAP qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(7) **AVN C2 Planner (AC2P) Qualification**. A MACCS Officer (MOS 72XX) is AC2P qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an AC2P by the MAW G3 and designated AC2P qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her MACCS Performance Record stating the qualification.

(8) **ATO Mission Planner (ATOMP) Qualification**. A Marine Officer (MOS 72XX/75XX) is AMP qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an AMP by the MAW G3 and designated AMP qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

110. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 1-11 into their training plans. Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 1-11. Recommended T&R Lectures

Lecture Code	Lecture Title	Sponsor
	200 Level: Combat Ready Training	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES
	The Six Functions of Marine Aviation	
A-03	v Control of Aircraft & Missiles	MAWTS-1 ASP
A-04	v Offensive Air Support	MAWTS-1 ASP
A-05	v Assault Support	MAWTS-1 ASP
A-06	v Electronic Warfare	MAWTS-1 ASP
A-07	v Aerial Reconnaissance	MAWTS-1 ASP
A-08	v Anti-Air Warfare	MAWTS-1 ASP
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	MCCES
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	MAWTS-1 ASP
A-14	MACCS Communications	MAWTS-1 ASP
A-15	CTAPS Overview	MAWTS-1 ASP
A-16	Data Link Symbology	MCCES
A-17	Manual Crosstell procedures	MCCES
A-18	Encryption & Authentication Procedures	MCCES
A-19	COMSEC & Crypto handling	MCCES

	300 Level: Combat Qualified Training	
B-01	ASM/SSM Threat	MAWTS-1 ASP
B-02	Fixed Wing Threat	MAWTS-1 ASP
B-03	Rotary Wing Threat	MAWTS-1 ASP
B-04	REC Threat	MAWTS-1 ASP
B-05	Ground Threat	MAWTS-1 ASP
B-06	AOR Specific Threat & OP PLANS	Local MACG
	MACCS Agencies	
B-07	v TACC	MAWTS-1 ASP
B-08	v TAOC	MAWTS-1 ASP
B-09	v DASC	MAWTS-1 ASP
B-10	v ATC Detachment	MAWTS-1 ASP
B-11	v LAAD Bn	MAWTS-1 ASP
B-12	v Air Defense Detachment	MAWTS-1 ASP
B-13	v MWCS	MAWTS-1 ASP
B-14	AEW	MAWTS-1 ASP
B-15	MACCS/Joint Data link	MAWTS-1 ASP
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1 ASP

Lecture Code	Lecture Title	Sponsor
B-18	Airspace Planning/Management (Combat Airspace)	MAWTS-1 ASP
B-19	Tanker Management	MAWTS-1 ASP
B-20	Armed Reconnaissance	MAWTS-1 ASP
B-21	UAV Programs & Integration	MAWTS-1 WTI *
B-22	Link Architecture & Procedures	MAWTS-1 WTI *
B-23	CSAR/TRAP	MAWTS-1 ASP
B-24	NEO Execution	MAWTS-1 ASP
B-25	Execution Checklist	MAWTS-1 WTI *

	400 Level: Full Combat Qualified Training	
C-01	Integrated Combat Airspace Command & Control (ICAC[2])	MAWTS-1 ASP
C-02	Joint Air Operations	MAWTS-1 ASP
C-03	Theater Missile Defense	MAWTS-1 WTI *
C-04	MACCS in support of Special Operations	MAWTS-1 WTI *
C-05	ROE Development	MAWTS-1 WTI *
C-06	SIS Aircraft	MAWTS-1 ASP
C-07	JTAO Procedures	MCCES

(*) The lecture code is standardized throughout all MACCS related syllabi, and are used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may not be listed sequentially.

2. Academic training listed in table 1-12 is recommended for personnel assigned to the TACC.

Table 1-12. TACC ACADEMIC SYLLABUS

CODE	CLASS TITLE	SECTION	72XX	75XX	02XX
T-01	AAW DOCTRINE		X	X	
T-02	ADC RESPONSIBILITIES		X	X	
T-03	AIR DEFENSE SECTORS/ZONES		X	X	
T-04	AIRSPACE MANAGEMENT		X	X	
T-05	ASSAULT SUPPORT REQUEST (ASR)		X	X	
T-06	ATOs AND FRAGs		X	X	X
T-07	AUTHENTICATION PROCEDURES		X	X	
T-08	AVIATION ORDNANCE/SCL		X	X	
T-09	BRIEFING AND DEBRIEFING PROCEDURES	AS REQD			
T-10	C4I SYSTEMS		X	X	X
T-11	CAP MANAGEMENT		X	X	
T-12	CC RESPONSIBILITIES		X	X	

CODE	CLASS TITLE	SECTION	72XX	75XX	02XX
T-13	COMMAND AND CONTROL OF AMPHIBIOUS OPS		X	X	X
T-14	COMMUNICATIONS NETS		X	X	X
T-15	COORDINATION REQUIREMENTS		X	X	X
T-16	CREW COORDINATION		X	X	X
T-17	CSAR/TRAP		X	X	X
T-18	CTAPS APPLICATIONS		X	X	X
T-19	DATA LINK TROUBLESHOOTING		X		
T-20	DATA LINK OPS MESSAGES		X		
T-21	DATA LINK OPERATIONS		X		
T-22	EMCON PLANNING		X	X	X
T-23	EMERGENCY PROCEDURES		X	X	
T-24	EP CAPABILITIES		X	X	
T-25	IADS EMPLOYMENT		X	X	
T-26	IDENTIFICATION PROCEDURES		X	X	
T-27	INTERFACE COORDINATION		X		
T-28	INTERNAL/EXTERNAL INFORMATION FLOW		X	X	X
T-29	INTRODUCTION TO TACC SYSTEMS		X	X	X
T-30	INTRODUCTION TO ELECTRONIC WARFARE		X	X	X
T-31	JOINT TACTICAL AIRSTRIKE REQUEST (JTAR)		X	X	X
T-32	MANUAL CROSS-TELL		X	X	
T-33	MSCS OPERATIONS		X		
T-34	OPLANS & OPORDERS		X	X	X
T-35	PLOTTING SYMBOLOGY		X	X	X
T-36	RCC OPERATIONS		X	X	X
T-37	RULES OF ENGAGEMENT (ROE)		X	X	X
T-38	SEAD		X	X	X
T-39	SECURITY OF CLASSIFIED MATERIAL		X	X	X
T-40	SUPPORTING ARMS INTEGRATION		X	X	
T-41	T&R PROGRAM		X	X	X
T-42	TACC CREW BRIEF		X	X	X
T-43	TACC REPORTS/FORMATS		X	X	X
T-44	TACC CASUALTY PROCEDURES		X	X	X
T-46	TACC EMPLOYMENT & POWER REQUIREMENTS		X		
T-47	TADIL-A		X		
T-48	TADIL-B/NATO LINK 1		X		
T-49	TADIL-J		X		
T-50	TANKER MANAGEMENT		X	X	
T-51	TCO/MSBL OPERATIONS		X		X
T-52	TDC RESPONSIBILITIES		X		
T-53	TDS PLATFORMS		X		
T-54	THEATER AIR GROUND SYSTEM		X	X	X

CODE	CLASS TITLE	SECTION	72XX	75XX	02XX
T-55	UNMANNED AERIAL VEHICLES (UAVS)		X	X	X
T-56	WEATHER		X	X	X
T-57	AFATDS		X	X	X

3. External academic courses of instruction available to complete the syllabus are listed below.

COURSE	ACTIVITY
Multi-TADIL Advanced Joint Interface Course (MAJIC)	FORCECOM
JTIDS Course	FORCECOM
JTIDS Network Design & System Management (JNDSM)	FORCECOM
Joint Aerospace Computer Applications Course	FORCECOM
TCO Operator’s Course	EWTG
Joint Aerospace Command and Control Course (JACAC)	FORCECOM
Military Airspace Management Course	FORCECOM
Joint Doctrine Air Campaign Course (JDACC)	AFCSC
JFACC Augmentation Staff Course	TACTRAGRUPAC
TAC Course	MAWTS-1
ACE Battlestaff Officer Course	MAWTS-1

111. TRAINING REFERENCES. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

TITLE	
ACP-125	Allied Communication Publication
CJCSM 6120.01A	Joint Multi-TADIL Operational Procedures
CCS-TRTBM-A017	CTAPS Software User’s Manual (SUM) Lockheed Martin
DASC PCL	DASC Pocket Checklist
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 3-30	Communications
FMFM 6-18	Techniques and Procedures for Fire Support Coordination
FMFRP 5-62	Multi-Service Procedures for the Theater Air-Ground System
JtDivO P3120.23	FSC SOP
Joint Pub 3-03	Doctrine for Joint Interdiction Operations
Joint Pub 3-09.3	JTTP for Close Air Support
Joint Pub 3-01.4	JTTP for Joint SEAD
Joint Pub 3-01.5	Doctrine for Joint Theater Missile Defense
Joint Pub 3-54	Joint Doctrine for OPSEC
MCM 3-1 Vol II	Threat Reference Manual
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
MCRP 3-16.1F	Targeting
MCRP 3-16.8B	MSP for the Joint Application of Firepower (J-FIRE)
MCRP 3-23A	Joint Air Attack Team Manual
MCRP 3-25A	MSP for AWACS in GBAD Operations
MCWP 3-2	Aviation Operations

MCWP 3-23.1	Close Air Support
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook
MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.12	MWCS Handbook
NWP 22	Air Control in Amphibious Operations
NWP 32	Anti-Air Warfare
OPNAVINST 3710	NATOPS MANUAL
TM-11240 Series	Motor Transport Technical Characteristics
TM 10149A-13&P/1	Operation Instructions - Tactical Combat Operations (TCO)
TSC-125-96-U	TCO Student Guide
12R4-MSCS-760-005	Operator’s Reference Manual (MSCS)
	TOPGUN Manual
	AGOS Manual
	Understanding Link 4A/11/16
	Understanding Data Links
	F/A-18 Tactics Manual (TACMAN)

120. LIVE/SIMULATOR EVENT TRAINING: TACCO

1. **Combat Capable Training**

STAGE	EVENTS	PERCENT
COMBAT QUALIFIED SYLLABUS AT MACS/MASS/LAAD BN		60.00%

2. **Combat Ready Training**

STAGE	EVENTS	PERCENT
SYSTEM TRAINING	5	3.00%
CLOSE BATTLE COORDINATOR TRAINING	4	4.00%
AIR DEFENSE COORDINATOR TRAINING	4	4.00%
AIRSPACE CONTROL OFFICER TRAINING	4	4.00%
COMBAT READY TOTALS:	17	15.00%

3. **Combat Qualification Training**

STAGE	EVENTS	PERCENT
CLOSE BATTLE ANALYST TRAINING	3	5.00%
ATO/ACO PLANNER TRAINING	4	7.00%
INTERFACE COORDINATION OFFICER TRAINING	4	8.00%
COMBAT QUALIFICATION TOTALS:	11	20.00%

4. **Full Combat Qualification Training**

STAGE	EVENTS	PERCENT
SENIOR AIR COORDINATOR TRAINING	4	3.00%
AC2 PLANNER TRAINING	3	2.00%
FULL COMBAT QUALIFICATION TOTALS:	7	5.00%

5. **Instructor Training**

STAGE	EVENTS	PERCENT
NOT APPLICABLE	0	0.00%

6. **Special Skills Training**

STAGE	EVENTS	PERCENT
DEEP BATTLE COORDINATOR TRAINING	4	0.00%
AIR BATTLE TASKER TRAINING	4	0.00%
SEARCH AND RESCUE COORDINATOR TRAINING	3	0.00%
DEEP BATTLE ANALYST TRAINING	3	0.00%
ATO PLANS OFFICER TRAINING	3	0.00%
SENIOR WATCH OFFICER TRAINING	3	0.00%
SPECIAL SKILLS TRAINING TOTALS:	20	0.00%
TACCO MOS 72XX T&R SYLLABUS TOTALS:	**55**	**100.00%**

130. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. **General**. The majority of the Tactical Air Command Center Officer syllabus is ground training which requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified Tactical Air Command Center Officer.

a. **Live Training**. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

b. **Simulator Training**. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted in the Tactical Air Command Center (TACC). Training not conducted in the TACC shall be replaced with live training where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

2. **Minimum Performance Time for Syllabus "Write-Off"/Designations**. Personnel may receive credit for successful completion of any syllabus requirement/performance standards (except qualifications) upon either a written, oral, or practical demonstration of proficiency, at the Commanding Officer's discretion. Completion of 80 percent of any syllabus event (except qualifications) may be "written-off" as complete at the discretion of the designated evaluator. Qualifications require a completed performance evaluation, and the designation signed by the Commanding Officer.

3. **Evaluation of Training**. Evaluation of those portions of the syllabus which are academic in nature will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per T&R Manual, Volume 1, and the standardized evaluation forms located in the appendix to this syllabus.

131. COMPONENTS OF A T&R EVENT

1. **General**. An event contained within a T&R manual is an Individual or collective training standard and contains seven or eight components, dependent on the tier in which they are contained:

1/	2/	3/	4/	5/	6/
SAM-XXX	**0.5**	**T,C,R,**	**E**	**EQUIP**	**L/S (NS)**

TASK: The title of a unit of work which needs to be done in the performance of a Marine's duties. It is a clearly stated performance-oriented action requiring learned skills and knowledge, i.e. Engage a rotary winged aircraft.

CONDITION(S): The condition(s) set for the real-world or combat circumstances in which the tasks are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this should be stated.

STANDARD(S): The performance standard indicates the basis for judging the effectiveness of the performance. It consists of a carefully worded statement which identifies the proficiency level expected when the task is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

PERFORMANCE STEP(S): *Listed for 100 level T&R events only.* Performance steps are the actions or decisions required to

fulfill proficiency established by the standard. The major performance steps which are required to perform the task to proficiency are listed in the order of performance. Minor steps are not listed.

PREREQUISITE(S): Provides a listing of academic training or other T&R events which must be completed prior to satisfying the task.

REFERENCE(S): Listing of doctrinal or reference publications which may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

ORDNANCE: A listing of ordnance types and quantities required to satisfy the task.

EXTERNAL SUPPORT REQUIREMENT(S): A listing or description of the external support requirements which may be required to satisfy completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES: 1/ Events are coded per Appendix B of T&R Manual Vol 1.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable Program of Instruction (Basic POI is understood).

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed.

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision Device; Where contained within **( )** denotes optional conditions.

132. COMBAT CAPABLE TRAINING

1. **COMBAT CAPABLE STAGE**. All Combat Capable training (100 series) will be accomplished by completing the Combat Qualification Syllabus of each Marine's primary MOS at the MACS/MASS.

133. COMBAT READY TRAINING

1. **System Training**

a. **Purpose**. To develop the skills required to maintain proficiency in operating Tactical Air Command Center equipment.

b. **General**. Contains the tactical and technical information necessary to maintain system proficiency.

c. **Prerequisite**. None.

d. **Live Training (5 Events)**

SYS-200 **R** **TACC** **L**

Task. Operate communications equipment.

Condition(s). Using appropriate codewords and communications brevity terms.

Standard(s). Properly utilize the available communications suite:

(1) Internal communications (ICS).

(2) Radio nets.

(3) Switchboard nets.

(4) Demonstrate mastery of proper authentication procedures.

(5) Utilization of proper radio transmission procedures in both secure and clear modes.

(6) Successfully complete 80% of the above listed standards.

Reference(s). TACC TM's.

Prerequisite(s). Academics: A-14, A-18, A-19, T-07, T-14, T-30.

External Syllabus Support. External agencies.

SYS-201 **R** **TACC** **L**

Task. Setup a TACC for operations.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s). Properly set up a Current/Future Operations Section.

(1) Unpack and set up work stations.

(2) Install LSDs/Plotting Boards.

(3) Create and install Status Boards.

(4) Erect tactical shelters, as required.

(5) Successfully complete 80% of the above listed standards.

Reference(s). TACC Handbook, Local SOPs, and TACC TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-202 **R** **TACC** **S**

Task. Conduct TACC operations.

Condition(s). Operate in a simulated NBC environment using MOPP equipment.

Standard(s). Perform crew requirements while in MOPP level 4.

Reference(s). NBC Standard Operating Procedures.

Prerequisite(s). NBCD training and MOPP level exchange.

External Syllabus Support. None.

SYS-203 **R** **TACC** **L**

Task. Set up the TCO/MSBL system for operations.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Properly assemble the TCO/MSBL workstation.

(2) Properly install hard drives and apply power to the system.

(3) Properly power down the TCO/MSBL system.

(4) Connect TCO/MSBL to communications media.

(5) Successfully complete 80% of the above listed standards.

Reference(s). TSC-125-97-U, TCO Student Guide.

Prerequisite(s). Academics: T-10, T-29, T-51.

External Syllabus Support. None.

SYS-204 **R** **TACC** **L**

Task. Set up the Battle Management Equipment for operations.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Properly assemble the CTAPS/TBMCS workstation.

(2) Properly apply power to the system.

(3) Properly power down the CTAPS/TBMCS system.

(4) Connect CTAPS/TBMCS to communications media.

(5) Successfully complete 80% of the above listed standards.

Reference(s). CTAPS SUM, AGOS CBT.

Prerequisite(s). Academics: A-15, T-10, T-29.

External Syllabus Support. None.

2. **Close Battle Coordinator (CBC) Training**

a. **Purpose**. To refine the TACCO's skills required for the Close Battle Coordinator qualification and to provide a means for the TACCO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for CBC qualification.

(b) The TACCO must demonstrate proficiency in monitoring and assessing the effectiveness of close air and assault support missions in support of the MAGTF close battle and functioning as a member of the Current Operations Section.

(c) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) **Prerequisite**. Combat Qualified in primary MOS, completion of the MACCS Academic COI (200 level).

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew is required.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

CBC-210 **R** **TACC** **L**

Task. Conduct Close Battle Cell planning.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Prepare the Close Battle Cell portion of the TACC crew briefing.

(2) Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the close/rear battle plans for the MAGTF.

(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.

(4) Assist in TMD planning, as required.

(5) Assist in the planning of emissions control measures, as required.

(6) Assist in the planning for MEDEVAC operations, as required.

(7) Coordinate with external agencies for information flow requirements.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, Local SOPs.

Prerequisite(s). Academics: Completion of MACCS Academic COI(200 level), B-07, B-09, B-10, B-16, B-17, B-18, B-21, B-23, B-24, B-25, C-01, C-02, C-03, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28, T-29, T-31, T-34, T-35, T-38 - T-44, T-50, T-51, T-54 - T-57.

External Syllabus Support. None.

CBC-211 **R** **TACC** **S/L**

Task. Perform as a Close Battle Coordinator (CBC).

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct the Close Battle Cell portion of the TACC crew briefing.

(2) Acquire and maintain current information concerning the status and operations of air missions supporting the MAGTF close battle.

(3) Advise the SWO/SAC concerning employment of air assets supporting the MAGTF close battle.

(4) Coordinate the synchronization of air operations in support of the MAGTF close battle within the current-day ATO cycle.

(5) Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required.

(6) Coordinate with the DASC for receipt of immediate JTAR/ASR/ MEDEVAC information.

(7) Recommend courses of action to support JTARs/ASRs/MEDEVACs to the SAC/SWO based upon asset availability.

(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:

- Cancel missions and launches of preplanned missions in cases where requirements no longer exist.

- Divert preplanned missions and provide mission briefings.

- Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.

- Direct launches of unscheduled missions and provide mission briefings.

- Coordinate the scramble and reconstitution of on-call (strip alert) missions.

(9) Ensure that information is kept current and that the SAC is updated concerning the close battle situation.

(10) Coordinate the modification of ACMs/FSCMs, as required.

(11) Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action.

(12) Coordinate with the ground watch section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.

(13) Supervise the conduct of the Close Battle Cell.

(14) Monitor the equipment status and operational posture of C3 agencies relative to the close battle, as required.

(15) Maintain appropriate logs.

(16) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, Local SOPs.

Prerequisite(s). Academics: Completion of MACCS Academic COI(200 level), B-07, B-09, B-10, B-16, B-17, B-18, B-21, B-23, B-24, B-25, C-01, C-02, C-03, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28, T-29, T-31, T-34, T-35, T-38 - T-44, T-50, T-51, T-54 - T-57.

External Syllabus Support. External C3 agencies.

CBC-212 **R** **TACC** **L/S**

Task. Perform as a Close Battle Coordinator (CBC).

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in CBC-211.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, Local SOPs.

Prerequisite(s). CBC 210 and 211.

External Syllabus Support. External C3 agencies.

QUAL-280 **R E** **TACC** **L**

Task. Qualify the TACCO as a CBC.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in the requirements identified in CBC-210 and 211.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, Local SOPs.

Prerequisite(s). CBC-212.

External Syllabus Support. External C3 agencies.

3. **Air Defense Coordinator (ADC) Training**

a. **Purpose**. To refine the TACCO's skills required for designation as an Air Defense Coordinator and provide a means for the designated ADC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Air Defense Coordinator qualification.

(b) During designated events, the TACCO must demonstrate proficiency in coordinating air defense assets within the MAGTF sector of operations, maintaining situational awareness, utilization of proper report formats, communication procedures, and functioning as a member of the Current Operations Section.

(c) At least one live and one simulated Air Defense Coordinator performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) **Prerequisite**. Combat Qualified in primary MOS, completion of the MACCS Academic COI (200 level).

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

ADC-220	**R**	**TACC**	**L**

Task. Conduct air defense planning.

Condition(s). In garrison or in the field.

Standard(s). To demonstrate proficiency in the following areas:

(1) Prepare the air defense portion of the TACC crew brief.

(2) Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, etc.) and assist in the development of the air defense plan for the MAGTF.

(3) Perform threat analysis for designated air defense priorities.

(4) Review and make recommendations for modification of airspace/air defense control measures, as required.

(5) Conduct TMD planning, as required.

(6) Participate in the planning of emissions/radiation control measures.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series.

Prerequisite(s). Academics: Completion of the MACCS Academic COI (200 level), B-01 - B-03, B-07, B-08, B-10 - B-12, B-14, B-16, B-18, B-19, C-01 - C-03, C-05, T-01 - T-04, T-06 - T-11, T-13 - T-16, T-18, T-21 - T-26, T-28 - T-30, T-32 - T-35, T-37 - T-39, T-41 - T-44, T-50, T-54, T-56.

External Syllabus Support. None.

ADC-221 **R** **TACC** **S/L**

Task. Perform as an Air Defense Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Conduct the air defense portion of the TACC crew brief.

(2) Monitor, supervise and coordinate the control of aircraft and missiles for air defense by subordinate/adjacent C3 agencies.

(3) Coordinate the air defense operations of MACCS agencies with external agencies, as directed.

(4) Initiate orders to MACCS agencies for air defense and countermand subordinate agency actions, as required.

(5) Monitor the equipment status and operational posture of C3 agencies relative to air defense, as required.

(6) Coordinate the establishment and dissemination of air defense warning conditions/weapons control status/states of alert.

(7) Coordinate with the SAAWC/TAOC concerning the execution of air defense missions.

(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:

- Cancel missions and launches of preplanned missions in cases where requirements no longer exist.

- Divert preplanned missions and provide mission briefings.

- Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.

- Direct launches of unscheduled missions and provide mission briefings.

- Coordinate the scramble and reconstitution of on-call (strip alert) missions.

(9) Ensure that information is kept current and that the SAC is updated concerning the air defense situation.

(10) Coordinate:

- The modification of ADCMs, as required.

- Changes to sectors of responsibility, as required.

- Changes to established ROE, as required.

- Changes to EMCON/RADCON status, as required.

- The flow of air defense information/reports.

(11) Ensure that established cross-tell procedures are utilized by the air defense section, as required.

(12) Maintain appropriate logs.

(13) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Joint Pub 3-01.4 and 3-01.5.

Prerequisite(s). Academics: Completion of the MACCS Academic COI (200 level), B-01 - B-03, B-07, B-08, B-10 - B-12, B-14, B-16, B-18, B-19, C-01 - C-03, C-05, T-01 - T-04, T-06 - T-11, T-13 - T-16, T-18, T-21 - T-26, T-28 - T-30, T-32 - T-35, T-37 - T-39, T-41 - T-44, T-50, T-54, T-56.

External Syllabus Support. External C3 agencies.

ADC-222 **R** **TACC** **L/S**

Task. Perform as an Air Defense Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Demonstrate proficiency in all the requirements identified in ADC-221.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Joint Pub 3-01.4 and 3-01.5.

Prerequisite(s). ADC-220 and 221.

External Syllabus Support. External C3 agencies.

QUAL-281 **R E** **TACC** **L**

Task. Qualify the TACCO as an Air Defense Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Demonstrate proficiency in all the requirements identified in ADC-220 and 221.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Joint Pub 3-01.4 and 3-01.5.

Prerequisite(s). ADC-222.

External Syllabus Support. External C3 agencies.

4. **Airspace Control Officer (ACO) Training**

a. **Purpose**. To refine the TACCO's skills required for designation as an Airspace Control Officer and provide a means for the designated ACO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Airspace Control Officer qualification.

(b) The TACCO must demonstrate proficiency in coordinating all airspace management and air traffic control issues and procedures within the Current Operations Section.

(c) At least one live and one simulated Airspace Control Officer performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Completion of the MACCS Academic COI (200 level).

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

ACO-230 **R** **TACC** **L**

Task. Conduct air traffic control planning.

Condition(s). In garrison or in the field.

Standard(s). To demonstrate proficiency in the following areas:

(1) Prepare the ACO portion of the TACC crew briefing.

(2) Assist in the preparation of Letters of Agreement/Memoranda of Agreement with external agencies (FAA, ICAO, host nation), as necessary, to define and delegate areas of control jurisdiction and conditions of use.

- Special Operating Conditions

- Detailed Air Traffic Control Procedures

(3) Coordinate airspace requirements and utilization procedures with the GCE and the ACE to ensure safe and orderly control

and movement of aircraft within the JTF/MAGTF area of responsibility.

(4) Assist in the development, review and standardization of air traffic control procedures within the AOR.

(5) Assist in the development of ATC contingency plans to allow for continuity of aircraft operations.

(6) Assist in the development of routing procedures for the AOR that are deconflicted with FSCMs/ADCMs/ACMs to allow safe and efficient movement of aircraft throughout the AOR.

(7) Assist with the development of high density air control zones (HIDACZ) and low level transit routes (LLTRs) within the AOR, as required.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Local SOPs, FMFRP 5-61.

Prerequisite(s). Academics: Completion of the MACCS Academic COI (200 level), B-07 - B-11, B-17, B-18, B-21, C-01, C-02, T-04, T-06, T-13 - T-16, T-18, T-22, T-23, T-28, T-29, T-34, T-35, T-39, T-41 - T-44, T-54, T-56.

External Syllabus Support. None.

ACO-231 **R** **TACC** **S/L**

Task. Perform ACO functions.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Conduct the ACO portion of the TACC crew briefing.

(2) Coordinate with the ground watch section for the plotting and deconfliction of site support coordination measures as they affect air operations, as required.

(3) Coordinate with the Airspace Control Authority (ACA) for all immediate (current ATO) airspace requirements beyond the FSCL, as required.

(4) Update and monitor changes to the ACP, ACO, or SPINS and apprise the SAC/SWO of any changes, as required.

(5) Coordinate/deconflict airspace requirements with MACCS agencies, as required by the fixed wing, rotary wing, and search and rescue cells.

(6) Modify airspace requirements as required to support Joint/Combined/MAGTF air operations.

(7) Assist in RCC coordination, as required.

(8) Notify the SAC/SWO of any overdue aircraft, as required.

(9) Coordinate/resolve airspace issues with external agencies (Joint, FAA, host nation), as required.

(10) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Local SOPs, FMFRP 5-61.

Prerequisite(s). Academics: Completion of the MACCS Academic COI (200 level), B-07 - B-11, B-17, B-18, B-21, C-01, C-02, T-04, T-06, T-13 - T-16, T-18, T-22, T-23, T-28, T-29, T-34, T-35, T-39, T-41 - T-44, T-54, T-56.

External Syllabus Support. External C3 agencies.

ACO-232 **R** **TACC** **L/S**

Task. Perform ACO functions.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) All standards listed in ACO-231.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Local SOPs, FMFRP 5-61.

Prerequisite(s). ACO-230 and 231.

External Syllabus Support. External C3 agencies.

QUAL-282 **R E** **TACC** **L**

Task. Qualify the TACCO as an Airspace Control Officer.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in ACO-231.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Local SOPs, FMFRP 5-61.

Prerequisite(s). ACO-232.

External Syllabus Support. External C3 agencies.

5. **COMBAT READY DESIGNATIONS**

a. **Purpose**. To designate the TACCO as a Close Battle Coordinator (CBC), Air Defense Coordinator (ADC), and Airspace Control Officer (ACO).

b. **General**

(1) **Administrative Notes**

(a) A TACCO will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC and a recommendation for designation will be staffed to the MAW Battlestaff trainer.

(c) The TACCO shall have a designation letter awarded, with any waivers deferments or endorsements, and will be filed in the MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Combat Capable stage of training.

(b) Completion of the MACCS Academic COI (200 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Designation Events (3 Events)**

DESG-290 **TACC**

Task. Designate the TACCO as a Close Battle Coordinator (CBC).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-280.

DESG-291 **TACC**

Task. Designate the TACCO as an Air Defense Coordinator (ADC).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-281.

DESG-292 **TACC**

Task. Designate the TACCO as an Airspace Control Officer (ACO).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-282.

134. COMBAT QUALIFICATION TRAINING

1. Close Battle Analyst (CBA) Training

a. **Purpose**. To refine the TACCO'S skills required for the Close Battle Analyst (CBA) qualification and to provide a means for a TACCO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for CBA qualification.

(b) The TACCO will monitor and assess the effectiveness of all aviation functions in support of the MAGTF's close battle.

(c) At least one live CBA performance event will be conducted with a full TACC crew during an exercise.

(2) **Prerequisite(s)**. QUAL-280.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

CBA-300 **R** **TACC** **L/S**

Task. Perform targeting analysis as a CBA.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Review MAGTF targeting guidance and combat assessment data (e.g. BDA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution.

(2) Coordinate with the intelligence watch section concerning updated targeting and BDA information.

(3) Coordinate with the intelligence watch section concerning current/projected enemy capabilities, critical enemy vulnerabilities, and potential courses of action.

(4) Monitor MAGTF targeting guidance updates.

(5) Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required.

(6) Advise the SWO on the real-time employment of air assets to support the close battle.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s)

(1) QUAL-280

(2) Academics: B-05, B-06, familiarity with joint targeting procedures.

External Syllabus Support. External C3 agencies.

CBA-301 **R** **TACC** **L/S**

Task. Monitor DASC/Close Battle Cell activity.

Condition(s). During an exercise.

Standard(s). Demonstrate the ability to:

(1) Maintain current situational awareness concerning air missions in support of the MAGTF close battle.

(2) Analyze in-flight reports/BDA's and coordinate with the intelligence watch section for simultaneous review and processing.

(3) Assess the close battle and the requirement to shift ATO assets to support the ongoing battle.

(4) Coordinate with the Close Battle Coordinator, the MAGTF air officer, the Combat Service Support Element, and the Force Fires Coordination Center to maintain situational awareness.

(5) Coordinate with the Close Battle Cell concerning asset availability for JTARs/ASRs before jointly recommending a course of action to the SWO.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s)

(1) QUAL-280

(2) Academics: B-05, B-06, familiarity with joint targeting procedures.

External Syllabus Support. External C3 agencies.

QUAL-380 **R E** **TACC** **L**

Task. Qualify the TACCO as a CBA.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in CBA 300 and 301.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s). CBA-300 and 301.

External Syllabus Support. External C3 agencies.

2. **Air Tasking Order(ATO)/Airspace Control Order (ACO) Planner (AAP) Training**

a. **Purpose**. To refine the TACCO’s skills required for designation as an AAP and provide a means for the designated AAP to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for ATO/ACO Planner qualification.

(b) The TACCO must demonstrate proficiency in conducting Future Operations planning for Air Defense, Airspace/Control Measures and Air Support operations.

(c) Non-qualification, evaluated events will be supervised by a designated AAP.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Completion of the MACCS Academic COI (200 level and designated 300 level courses). Completion of the Combat Ready stage of training is required prior to the qualification event, QUAL-381.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the qualification event.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

AAP-310 **R E** **TACC** **L**

Task. Conduct airspace/control measures planning.

Condition(s). In garrison or in the field, within the FOS.

Standard(s). To demonstrate proficiency in the following areas:

(1) Coordinate and assist in the establishment of Letters of Agreement/Memoranda of Agreement with external agencies (FAA, ICAO, host nation) to define and delegate areas of control jurisdiction and conditions of use.

- Special Operating Conditions

- Detailed Air Traffic Control Procedures

(2) Coordinate airspace requirements and utilization procedures between the GCE, ACE, CSSE, and external agencies to ensure

safe and orderly control and movement of aircraft within the JTF/MAGTF AO.

(3) Develop, review and standardize air traffic control procedures within the AO.

(4) Coordinate and publish an ATC contingency plan to allow for continuity of aircraft operations.

(5) Coordinate all requirements for ATC flight certification.

(6) Delegating responsibility for control of aircraft within the OPORD/ATO.

(7) Develop routing procedures for the AO that are deconflicted with FSCMs/ADCMs/ACMs to allow safe and efficient movement of aircraft throughout the AO.

(8) Establish high density air control zones (HIDACZ) and low level transit routes (LLTRs) within the AO, as required.

(9) Enter required C2 information into the applicable CTAPS database(s).

(10) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Local SOPs, FMFRP 5-61.

Prerequisite(s). ACO-230.

External Syllabus Support. None.

AAP-311 **R E** **TACC** **L**

Task. Conduct air defense planning.

Condition(s). In garrison or in the field, within the FOS.

Standard(s). To demonstrate proficiency in the following areas:

(1) Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, etc.) and assist in the development of the air defense plan for the MAGTF.

(2) Review and make recommendations for modification of airspace/air defense control measures, as required.

(3) Conduct TMD planning, as required.

(4) Participate in the planning and development of emissions/radiation control measures.

(5) Assist in the development of BDZ/HVAA protection plans.

(6) Recommend changes to air defense asset positioning and weapons resupply procedures.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series.

Prerequisite(s). ADC-220.

External Syllabus Support. None.

AAP-312 **R E** **TACC** **L**

Task. Conduct Air Support planning.

Condition(s). In garrison or in the field, within the FOS.

Standard(s). Demonstrate proficiency in the following areas:

(1) Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the MAGTF battle plan.

(2) Review and make recommendations for modification of airspace/fire support coordination measures.

(3) Assist in TMD planning.

(4) Assist in the planning of emissions control measures.

(5) Assist in the planning for MEDEVAC operations.

(6) Recommend changes to asset positioning and logistical/communications requirements (e.g. FARP/FOB).

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, Local SOPs.

Prerequisite(s). CBC-210.

QUAL-381 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an ATO/ACO Planner.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in AAP-310, 311, or 312.

(2) Assist in the final review of the ATO before release/forwarding.

(3) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-23.1, MCWP 3-25 series, Local SOPs, FMFRP 5-61.

Prerequisite(s)

(1) Completion of the Combat Ready stage of training.

(2) AAP-310, 311, 312.

External Syllabus Support. External C3 agencies.

3. **Interface Control Officer (ICO) Training**

a. **Purpose**. To refine the TACCO's skills required for designation as an Interface Control Officer and provide a means for the designated ICO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Interface Control Officer qualification.

(b) During designated events, the TACCO must demonstrate proficiency in managing system interfaces, maintaining an accurate situational display, utilization of proper report formats, communication procedures, and functioning as a member of the Current Operations Section.

(2) **Prerequisite**. Completion of the MACCS Academic COI (200 level).

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

ICO-320 **R** **TACC** **L**

Task. Develop planning documents.

Condition(s). In garrison or in the field.

Standard(s). To demonstrate proficiency in the following areas:

(1) Develop an OPTASKLINK in accordance with joint standards.

(2) Assist in the development of the MAGTF surveillance plan/TACOPDAT in accordance with joint standards.

(3) Assist in the development of communications interface inputs/requirements, for inclusion in the OPORD (Annex K) or other applicable directives, to include:

- Radio net requirements.
- Multi-channel radio requirements.
- SATCOM requirements.
- Telephone (secure and non-secure) requirements.
- Data link interface requirements.
- BME interface requirements.
- LAN/WAN/Internet requirements (NIPRNET/SIPRNET), to include IP address matrices and router implementation plans.

(4) Coordinate input to the Intent-To-Use/CMS Callout messages and ensure the availability of all required cryptographic keying material.

(5) Assist in the development of redundant architectural designs for all interface requirements listed in (3) above.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, CJCSM 6120.01A, Local SOPs.

Prerequisite(s)

(1) Completion of the MACCS Academic COI(200).

(2) Academics: B-04, B-06 - B-15, B-17, B-22, C-01 - C-03, C-06, C-07, T-07, T-10, T-13 - T-16, T-18 - T-22, T-24, T-26 - T-30, T-32 - T-34, T-39, T-41 - T-49, T-51 - T-54, T-56.

(3) Formal Network management training and advanced data link training (e.g., MAJIC course at JMTS, Ft McPherson, GA).

External Syllabus Support. None.

ICO-321 **R** **TACC** **S/L**

Task. Perform as an Interface Control Officer.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Conduct the ICO portion of the TACC crew briefing.

(2) Supervise the TDC performing track management functions.

(3) Supervise the appropriate use and implementation of manual crosstell procedures.

(4) Recommend and implement changes to data link configurations and EMCON conditions, as required.

(5) Monitor the accuracy of datalink presentations.

(6) Coordinate with the Crew Chief and Maintenance Coordinator to ensure the quality of system interfaces and recommend solutions to identified deficiencies.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, CJCSM 6120.01A, Local SOPs.

Prerequisite(s). ICO-320.

External Syllabus Support. External C3 agencies.

ICO-322 **R** **TACC** **L/S**

Task. Perform as an Interface Control Officer.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in ICO-321.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, CJCSM 6120.01A, Local SOPs.

Prerequisite(s). ICO-321.

External Syllabus Support. External C3 agencies.

QUAL-382 **R E** **TACC** **L**

Task. Qualify the TACCO as an Interface Control Officer.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all requirements identified in ICO-320 and 321.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, CJCSM 6120.01A, Local SOPs.

Prerequisite(s). ICO-322.

External Syllabus Support. External C3 agencies.

4. **COMBAT QUALIFIED DESIGNATIONS**

a. **Purpose**. To designate the TACCO as a Close Battle Analyst (CBA), an ATO/ACO Planner (AAP), and an Interface Control Officer (ICO).

b. **General**

(1) **Administrative Notes**

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training: (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC/MAW G3. A recommendation for designation will be staffed to the MAW Battlestaff trainer.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) **Prerequisite(s)**. Completion of the Combat Qualification stage of training.

c. **Crew Requirements**. None.

d. **Academic Training**. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Designation Events (3 Events)**

DESG-390 **TACC**

Task. Designate the TACCO as a Close Battle Analyst.

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-380.

DESG-391 **TACC**

Task. Designate the TACCO as an ATO/ACO Planner.

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-381.

DESG-392 **TACC**

Task. Designate the TACCO as an Interface Control Officer.

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-382.

135. FULL COMBAT QUALIFICATION TRAINING

1. Senior Air Coordinator (SAC) Training

a. **Purpose**. To refine the TACCO'S skills required for the Senior Air Coordinator qualification and to provide a means for a TACCO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for SAC qualification.

(b) The TACCO must demonstrate proficiency in supervising the execution of the current ATO by the Marine Air Command and Control System and assisting/advising the SWO on matters pertaining to MACCS employment.

(c) At least one live SAC performance event will be conducted with a core competent, task-organized TACC crew during an exercise.

(2) **Prerequisite(s)**. Completion of the Combat Ready stage of training, QUAL-380, and QUAL-381.

c. **Crew Requirements**. A core competent TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

SAC-400 **R** **TACC** **L**

Task. Conduct TACC planning, embarkation, and emplacement.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Supervise the preparation of the TACC crew briefing.

(2) Conduct site survey for determining potential locations for the TACC facility:

- Communications connectivity
- Logistical supportability
- Utilization of existing facilities at site location
- Rear area security considerations
- Proximity to ACE Headquarters

(3) Supervise the construction/emplacement of the TACC facility.

(4) Assist in the development of watch schedules/duty rosters to meet operational requirements.

(5) Supervise efficient routing of information within the Current Operations Section.

(6) Review applicable planning documents (OPORD, ATO, ACO, ADP, etc.) and provide recommendations to the SWO pertaining to air defense/air support operations within the MAGTF AO.

(7) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 111.

Prerequisite(s)

(1) Completion of the Combat Ready stage of training.

(2) QUAL-380 and 381.

(3) Academics: Completion of the MACCS Academic COI (300 level), C-04, C-06, C-07, T-12, T-20, T-21, T-27, T-36, T-46 - T-49, T-52, T-53.

External Syllabus Support. None.

SAC-401 **R** **TACC** **S/L**

Task. Perform as a SAC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) Conduct TACC crew briefing.

(2) Assist the SWO in supervising the execution of the current ACE battle plan, as required:

- Ensure that the situation and status displays are current and accurate.

- Evaluate the capability of available assets to fulfill ATO tasking.

- Recommend courses of action to overcome ATO deficiencies.

- Update the SWO/Current Operations Officer on any unanticipated developments that may impact planned operations.

- Issue and document ATO adjustments approved by the SWO/Current Operations Officer.

- Adjudicate with the MAGTF/JFACC any immediate JTARs/ASRs that exceed the current sortie allocation.

(3) Establish liaison and effect coordination with senior watch officers of subordinate, adjacent, and senior air control agencies.

(4) Supervise and coordinate the proper employment of air defense and air support assets.

(5) Recommend changes to the weapons control status for the MAGTF to the SWO.

(6) Monitor the air defense warning conditions selected by the SAAWC, with concurrence by the SWO, make recommendations for their modification, and ensure dissemination to the MAGTF, as required.

(7) Supervise the proper and expeditious dissemination of all essential information to C3 agencies and aircrews, as required.

(8) Monitor the reporting of events by agencies subordinate to the TACC.

(9) Supervise the functioning and performance of current operations watchstanders.

(10) Advise the SWO on all matters pertinent to the MACCS in the conduct of current operations.

(11) Perform the functions of the SWO, when directed.

(12) Maintain appropriate logs.

(13) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 111.

Prerequisite(s). SAC-400.

External Syllabus Support. External C3 agencies.

SAC-402 **R** **TACC** **L/S**

Task. Perform as a SAC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in SAC-401.

(2) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 111.

Prerequisite(s). SAC-401.

External Syllabus Support. External C3 agencies.

QUAL-480 **R E** **TACC** **L**

Task. Qualify the TACCO as a SAC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in SAC-400 and SAC-401.

Reference(s). Refer to paragraph 111.

Prerequisite(s). SAC-402.

External Syllabus Support. External C3 agencies.

2. **Aviation Command and Control Planner (AC2P) Training**

a. **Purpose**. To refine the TACCO'S skills required for the AC2P qualification and to provide a means for a TACCO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for AC2P qualification.

(b) The TACCO must demonstrate proficiency in developing the C2 portion of ACE operations orders/frag orders and conducting current planning for C2 aviation requirements/events that occur beyond the current ATO planning cycle.

(c) At least one AC2P performance event will be conducted during an exercise.

(2) **Prerequisite(s)**. Completion of the Combat Ready stage of training, QUAL-380, and 381.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

AC2P-410 **R** **TACC** **L/S**

Task. Perform as an Aviation C2 Planner.

Condition(s). In garrison or in the field, in the FOS.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) Assist in the development of ACE operations orders/frag orders, ADP/ACP, etc. based upon support plans prepared by the future plans section.

(2) Plan and coordinate C2 requirements to meet planned aviation needs beyond the ATO timeline, to include:

- Helicopter operations (tasking, routing, escort).
- Projected strike packages.
- CSAR/TRAP operations.
- SEAD operations.
- AAW operations.
- Air C2 support requirements.

(3) Coordinate with the ATO Development Officer, Orders Development Officer and the Future Operations Officer concerning matters pertaining to C2 orders development.

(4) Prepare plans associated with reorganization, liaison, augmentation, and connectivity required to assume JFACC/JAOC responsibilities, as required.

(5) Prepare the C2 portion of the ACE master attack plan in concert with the MAGTF master attack plan:

- Deconflict allocated air assets against the MAGTF prioritized target list.
- Deconflict mission routing with the Integrated Air Defense plan.
- Deconflict air defense priorities with the requirements of the ACE master attack plan.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25.4, Local SOPs.

Prerequisite(s)

(1) Completion of the Combat Ready stage of training.

(2) QUAL-380 and 381.

(3) Academics: B-04, B-13, B-15, B-20, C-04, C-06, C-07, T-27, T-36, T-53.

External Syllabus Support. None.

AC2P-411 **R E** **TACC** **L/S**

Task. Perform as an AC2 Planner.

Condition(s). During an exercise, in the FOS.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) All standards listed in AC2P-410.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25.4, Local SOPs.

Prerequisite(s)

(1) Completion of the Combat Ready stage of training.

(2) QUAL-380 and 381.

(3) Academics: B-04, B-13, B-15, B-20, C-04, C-06, C-07, T-27, T-36, T-53.

External Syllabus Support. External C3 agencies.

QUAL-481 **R E** **TACC** **L**

Task. Qualify the TACCO as an AC2 Planner.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in AC2P-410.

Reference(s). MCWP 3-25.4, Local SOPs.

Prerequisite(s). AC2P-410 and 411.

External Syllabus Support. External C3 agencies.

2. **FULL COMBAT QUALIFICATION DESIGNATION**

a. **Purpose**. To designate the TACCO as a SAC and an AC2 Planner.

b. **General**

(1) **Administrative Notes**

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training: (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC/MAW G3. A recommendation for designation will be staffed to the MAW Battlestaff trainer.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Full Combat Qualification stage of training.

(b) Completion of the MACCS Academic COI (400 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (2 Events)**

DESG-490 **TACC**

Task. Designate the TACCO as a Senior Air Coordinator (SAC).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-480.

DESG-491 **TACC**

Task. Designate the TACCO as an AC2 Planner (AC2P).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-481.

136. SPECIAL SKILL QUALIFICATION TRAINING

1. Deep Battle Coordinator (DBC) Training

a. **Purpose**. To refine skills required for the Deep Battle Coordinator qualification and to provide a means for the DBC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for DBC qualification.

(b) The TACCO must demonstrate proficiency in monitoring and assessing the effectiveness of deep air support missions in support of the MAGTF deep battle, and functioning as a member of the Current Operations Section.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. QUAL-280.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

DBC-600 **R** **TACC** **L**

Task. Conduct Deep Battle Cell planning.

Condition(s). In garrison or in the field.

Standard(s). Introduce the TACCO to planning considerations for the following areas:

(1) Prepare the Deep Battle Cell portion of the TACC crew briefing.

(2) Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the deep battle plans for the MAGTF.

(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.

(4) Assist in TMD planning, as required.

(5) Assist in the planning of emissions control measures, as required.

(6) Assist in the planning for CSAR/TRAP/MEDEVAC operations, as required.

(7) Coordinate with external agencies for information flow requirements.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Local SOPs.

Prerequisite(s)

(1) QUAL-280.

(2) Academics: A-04 - A-07, A-09, A-12, A-13, B-07, B-09, B-10, B-14, B-16 - B-18, B-21, B-23, B-24, B-25, C-01, C-02, C-06, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28 - T-31, T-34, T-35, T-38 - T-44, T-50, T-54 - T-56.

External Syllabus Support. None.

DBC-601 **R** **TACC** **S/L**

Task. Perform as a Deep Battle Coordinator (DBC).

Condition(s). During an exercise.

Standard(s). Perform duties as DBC in the following areas:

(1) Conduct the Deep Battle Cell portion of the TACC crew briefing.

(2) Acquire and maintain current information on the status and operations of air missions in support of the MAGTF deep battle.

(3) Advise the SWO/SAC on the employment of air assets in support of the MAGTF deep battle.

(4) Coordinate the synchronization of air operations in support of the MAGTF deep battle within the ATO cycle.

(5) Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required.

(6) Coordinate with the DASC, and other C3 agencies, for receipt of immediate JTAR/ASR/MEDEVAC information.

(7) Recommend courses of action to support JTAR/ASR/MEDEVACs to the SAC/SWO based upon asset availability.

(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:

- Cancel missions and launches of preplanned missions in cases where requirements no longer exist.

- Divert preplanned missions and provide mission briefings.

- Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.

- Direct launches of unscheduled missions and provide mission briefings.

- Coordinate the scramble and reconstitution of on-call (strip alert) missions.

(9) Ensure that information is kept current and that the SAC is updated concerning the deep battle situation.

(10) Coordinate the modification of ACMs/FSCMs, as required.

(11) Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action.

(12) Coordinate with the ground watch section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.

(13) Monitor the equipment status and operational posture of C3 agencies relative to the close battle, as required.

(14) Review MAGTF targeting guidance and combat assessment data in order to provide ATO refresh input to planned events at least 4 hours prior to execution.

(15) Coordinate with ACI target intelligence section to receive updated targeting and BDA information.

(16) Receive in-flight reports for passage to the intelligence watch section for review and processing.

(17) Recommend, in conjunction with the ACI target intelligence section, to the SWO dynamic retasking of air assets in response to emergent targets in the deep battle area.

(18) Provide the SWO the impact on the deep battle of shifting assets during the current ATO.

(19) Recommend changes to, or identify preplanned ordnance configurations in response to target changes or weather conditions.

(20) Supervise the conduct of the Deep Battle Cell.

(21) Maintain appropriate logs.

(22) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). DBC-600.

External Syllabus Support. External C3 agencies.

DBC-602 **R** **TACC** **L/S**

Task. Perform as a Deep Battle Coordinator (DBC).

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in DBC-601.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). DBC-601.

External Syllabus Support. External C3 agencies.

QUAL-680 **R E** **TACC** **L/S**

Task. Qualify the TACCO as a DBC.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in the requirements identified in DBC-601.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). DBC-602.

External Syllabus Support. External C3 agencies.

2. **Air Battle Tasker (ABT) Training**

a. **Purpose**. To refine the TACCO'S skills required for the Air Battle Tasker (ABT) qualification and to provide a means for a TACCO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for ABT qualification.

(b) The ABT must demonstrate proficiency in utilizing Battle Management Equipment (BME) in the TACC Current Operations Section (COS) to supervise and direct daily aviation operations.

(c) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) **Prerequisite(s)**. Completion of the Combat Ready stage of training.

3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a SRC billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew is required.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

ABT-610 **R** **TACC** **L**

Task. Perform ABT planning functions.

Condition(s). In garrison or during an exercise.

Standard(s). Participate in CBC-210, DBC-600, ADC-220 planning events as appropriate.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN).

Prerequisite(s)

(1) Completion of the Combat Ready stage of training.

(2) Academics: A-04 - A-09, A-12, A-13, B-07 - B-10, B-14, B-16, B-18 - B-21, B-23 - B-25, C-01, C-02, C-06, T-01, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28 - T-31, T-34, T-35, T-38 - T-44, T-50, T-54 - T-56.

External Syllabus Support. None.

ABT-611 **R** **TACC** **S/L**

Task. Perform ABT functions.

Condition(s). During an exercise.

Standard(s). Perform functions in the following areas:

(1) Build a report in CAFMS X or FLEX.

(2) Execute MSN replanning, change TOS, TGT, Tanking information, Kill box and MSN info.

(3) Submit a MSN change to the ATO.

(4) Demonstrate proficiency with TK Talk & Applix.

(5) Submit other MSN info as required.

(6) Add, change, delete mission in CAFMS X or FLEX.

(7) Coordinate asset availability, mission changes, launch information, and other critical information as appropriate with the supporting aviation units.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN).

Prerequisite(s). ABT-610.

External Syllabus Support. External C3 agencies, aircraft.

ABT-612 **R** **TACC** **L/S**

Task. Perform ABT functions.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in ABT-611.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). ABT-611.

External Syllabus Support. External C3 agencies.

QUAL-681 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an ABT.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in ABT-610 and 611.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). ABT-612.

External Syllabus Support. External C3 agencies, fixed and rotary wing aircraft, sim or live.

3. **Search and Rescue Coordinator (SRC) Training**

a. **Purpose**. To refine the skills required for designation as a Search and Rescue Coordinator (SRC) and provide a means for the designated SRC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Search and Rescue Coordinator qualification.

(b) The Combat Capable TACCO must demonstrate proficiency in coordinating Search and Rescue (SAR) and/or Tactical Recovery of Aircraft and Personnel (TRAP) missions by completing the SRC training syllabus.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Completion of the Combat Ready stage of training and attended the Joint Services SERE Agency Joint Search and Rescue Center Seminar (JSSA JSRCS).

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a SRC billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

SRC-620 R TACC L

Task. Conduct CSAR/TRAP planning.

Condition(s). In garrison or in the field.

Standard(s). Perform functions in the following areas:

(1) Prepare the SRCC portion of the TACC crew briefing.

(2) Assist in the development of the CSAR plan.

(3) Assist in the development of the TRAP plan.

(4) Assist in the planning for SAR communications.

(5) Assist in the development and preparation of execution checklists, as required.

(6) Coordinate with the Joint Search and Rescue Center (JSRC) concerning CSAR aircraft availability and requirement for TRAP assets that exceed ACE platform capabilities/ survivability for SAR operations.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2

MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s)

(1) Completion of the Combat Ready stage of training.

(2) Joint Services SERE Agency Joint Search and Rescue Center Seminar (JSSA JSRCS).

(3) Academics: A-03 - A-07, A-09, A-12, A-13, B-05 - B-07, B-09, B-10, B-14, B-16 - B-18, B-21, B-23 - B-25, C-01, C-02, C-04, C-06, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28 - T-31, T-34, T-35, T-38 - T-44, T-50, T-54 - T-56.

External Syllabus Support. None.

SRC-621 **R** **TACC** **S/L**

Task. Perform as a Search and Rescue Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Conduct the SRCC portion of the TACC crew brief.

(2) Coordinate with the Joint Search and Rescue Center (JSRC) concerning CSAR aircraft availability and requirement for TRAP assets that exceed ACE platform capabilities/ survivability for SAR operations.

(3) Supervise the activation and monitoring of SAR communications and execution checklists, as required.

(4) Draft messages pertaining to MAGTF CSAR/TRAP operations (i.e. Search and Rescue Incident Report (SARIR) and SAR Situation Report (SAR SIT)).

(5) Notify the SWO of supporting aircraft requirements for CSAR/TRAP operations, the progress of CSAR/TRAP operations, and any situations that restrict or hinder CSAR/TRAP operations.

(6) Coordinate CSAR/TRAP efforts with units and/or agencies external to the ACE (i.e. JFACC Joint SAR Center (JSRC)).

(7) Coordinate CSAR/TRAP efforts with the DASC, provided such efforts transit that battlespace short of the FSCL.

(8) Ensure that CSAR/TRAP case folders are completed and maintained.

(9) Monitor and update location/availability of CSAR/TRAP assets.

(10) Provide feedback to future operations on changes required for subsequent ATOs concerning SAR/TRAP support (i.e. packaging, SPINS, checklists, etc.).

(11) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). SRC-620.

External Syllabus Support. External C3 agencies.

QUAL-682 **R E** **TACC** **L/S**

Task. Qualify the TACCO as a Search and Rescue Coordinator (SRC).

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in SRC-620 and 621.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). SRC-621.

External Syllabus Support. External C3 agencies.

4. **Deep Battle Analyst (DBA) Training**

a. **Purpose**. To develop the TACCO'S skills required for the Deep Battle Analyst (DBA) qualification and to provide a means for a TACCO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for DBA qualification.

(b) The TACCO will monitor and assess the effectiveness of all aviation functions in support of the MAGTF's deep battle.

(c) At least one live DBA performance event will be conducted with a full TACC crew during an exercise.

(2) **Prerequisite(s)**. Completion of the Combat Qualification stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a SRC billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

DBA-630 **R** **TACC** **L/S**

Task. Perform targeting analysis as a DBA.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Review MAGTF targeting guidance and combat assessment data (e.g. BDA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution.

(2) Coordinate with the intelligence watch section concerning updated targeting and BDA information.

(3) Coordinate with the intelligence watch section concerning current/projected enemy capabilities, critical enemy vulnerabilities, and potential courses of action.

(4) Monitor MAGTF targeting guidance updates.

(5) Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required.

(6) Advise the SWO on the real-time employment of air assets to support the deep battle.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s)

(1) Completion of the Combat Qualification stage of training.

(2) MAGTF Staff Training Program.

(3) Academics: A-01, A-04 - A-07, A-09, A-12, A-13, B-06, B-07, B-09, B-14, B-16 - B-18, B-21, B-23 - B-25, C-01, C-02, C-06, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28 - T-31, T-34, T-35, T-38 - T-40, T-42 - T-44, T-54 - T-57.

External Syllabus Support. External C3 agencies.

DBA-631 **R** **TACC** **L/S**

Task. Monitor Deep Battle Cell activity.

Condition(s). During an exercise.

Standard(s). Demonstrate the ability to:

(1) Maintain current situational awareness concerning air missions in support of the MAGTF deep battle.

(2) Analyze in-flight reports/BDA's and coordinate with the intelligence watch section for simultaneous review and processing.

(3) Assess the deep battle and the requirement to shift ATO assets to support the ongoing battle.

(4) Coordinate with the Deep Battle Coordinator, the Ground Watch Section, the MAGTF air officer, and the Force Fires Coordination Center to maintain situational awareness.

(5) Coordinate with the Deep Battle Cell concerning asset availability for JTARs/ASRs before jointly recommending a course of action to the SWO.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s). DBA-630.

External Syllabus Support. External C3 agencies.

QUAL-683 **R E** **TACC** **L**

Task. Qualify the TACCO as a DBA.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in DBA 630 and 631.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s). DBA-630 and 631.

External Syllabus Support. External C3 agencies.

5. **ATO Plans Officer (ATOPL) Training**

a. **Purpose**. To develop the skills required for designation as an ATO Plans Officer (ATOPL) and provide a means for the designated ATOPL to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for ATO Plans Officer qualification.

(b) At the completion of this syllabus, the TACCO must demonstrate proficiency in supervising the ATO planning cell in performing the weaponeering and force application functions in the development of the MAGTF master attack plan.

(2) **Prerequisite**. QUAL-381.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

ATOPL-640 **R** **TACC** **L**

Task. Conduct ATO planning.

Condition(s). In garrison or in the field.

Standard(s). To supervise the ATO Planning Section of the TACC in the following areas:

(1) Receive and review the MAGTF master attack plan.

(2) Prepare the ACE master attack plan to include:

- Sequencing and deconflicting apportioned air assets against the MAGTF prioritized target list.

- Weaponeering and packaging air assets, as required, based on the threat, desired level of destruction and timeliness.

- Deconflicting simultaneous missions by other MAGTF lethal/non-lethal assets.

(3) Prepare sortie availability charts.

(4) Prepare aircraft flow sheets.

(5) Separate the MAGTF prioritized target list according to target sourcing (direct support targets/common sourced targets) for submission to the joint force commander.

(6) Review and input any database changes to the aircraft laydown, standard configuration loads, and aircraft parametric data.

(7) Prepare the target planning worksheets and submit them to the ATO production cell for input into the applicable electronic planning system.

(8) Prepare the special instructions (SPINS), and any changes to the airspace control plan and air defense plan for incorporation into the ATO.

(9) Perform the final review of the ATO before release/forwarding.

(10) Ensure that sortie available aircraft flow and target planning worksheets, as applicable, are forwarded to the Marine liaison cell in the JAOC combat plans division.

(11) Make adjustments to force packaging, routing, weapons loadout, aircraft survivability equipment configurations, or

other tactics, as a result of the combat assessment board analysis.

(12) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s)

(1) JAOSC.

(2) QUAL-381.

(3) Academics: A-01 - A-09, A-12 - A-14, B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-05, T-01, T-04, T-06, T-08, T-13 - T-15, T-17, T-18, T-22, T-23, T-30, T-34, T-36 - T-38, T-40, T-54 - T-56.

External Syllabus Support. None.

ATOPL-641 **R** **TACC** **L/S**

Task. Perform as an ATO Plans Officer.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) All standards listed in ATOPL-360.

(2) Successfully complete 80% of the above listed standards.

Reference(s). See ATOPL-640.

Prerequisite(s). ATOPL-640.

External Syllabus Support. External C3 agencies.

QUAL-684 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an ATO Plans Officer.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in ATOPL-640.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). ATOPL-641.

External Syllabus Support. None.

6. **Senior Watch Officer (SWO) Training**

a. **Purpose**. To refine the skills required for the Senior Watch Officer qualification and to provide a means for a SWO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Senior Watch Officer Qualification.

(b) The TACCO must demonstrate proficiency in supervising the Current Operations Section to ensure that action is taken to optimize the employment of MAGTF aviation resources.

(c) At least one live Senior Watch Officer performance event will be conducted with a full TACC crew during an exercise.

(2) **Prerequisite(s)**. Completion of the Full Combat Qualification stage of Training. MAWTS-1 TAC course recommended but not required.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

SWO-650 **R** **TACC** **S/L**

Task. Perform as a SWO.

Condition(s). During a exercise.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) Supervise the execution of the ATO by:

- Ensuring that situation and status displays are current and accurate.

- Evaluating the capability of available forces to fulfill ATO tasking and recommending a course of action to the Current Operations Officer when there is a shortfall.

- Keeping the Current Operations Officer informed on unanticipated developments or problems that may impact planned operations.

- Recommending adjustments to the published ATO when required by the current situation.

- Issuing and documenting ATO adjustments approved by the Current Operations Officer.

(2) Demonstrate familiarity with all aspects of air operations, to include force beddown, sortie availability, airspace control measures, communications, rules of engagement, aircraft capabilities/limitations, and munitions capabilities.

(3) Effect coordination with senior watch officers of subordinate, adjacent, and senior air/ground agencies.

(4) Monitor reporting of events by agencies subordinate to the TACC.

(5) Adjudicate with the MAGTF/JFACC any immediate JTARs/JTASRs that exceed the current planned allocation.

(6) Determine reporting responsibilities and establish procedures for preparing reports from Current Operations for the commander’s situation report, commander’s daily briefing, and as directed by the Current Operations Officer.

(7) Perform the functions of the Current Operations Officer, as required.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s)

(1) MAWTS-1 ACE TAC course recommended.

(2) Completion of the Full Combat Qualification stage of training.

External Syllabus Support. External C3 agencies.

SWO-651 **R** **TACC** **L/S**

Task. Perform as a SWO.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) All standards listed in SWO-650.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). SWO-650.

External Syllabus Support. External C3 agencies.

QUAL-685 **R E** **TACC** **L/S**

Task. Qualify the TACCO as a Senior Watch Officer.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in SWO-650.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). SWO-651.

External Syllabus Support. External C3 agencies.

7. **SPECIAL SKILLS DESIGNATIONS.**

a. **Purpose**. To designate the TACCO as an Air Battle Tasker (ABT), Deep Battle Coordinator (DBC), Search and Rescue Coordinator, Deep Battle Analyst, ATO Plans Officer, and Senior Watch Officer.

b. **General**

(1) **Administrative Notes**

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training: (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC/MAW G3. A recommendation for designation will be staffed to the MAW Battlestaff trainer.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) **Prerequisite(s)**. Applicable QUAL-68X.

c. **Crew Requirements**. None.

d. **Academic Training**. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Designation Events (3 Events)**

DESG-690 **TACC**

Task. Designate the TACCO as an Deep Battle Coordinator (DBC).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-680.

DESG-691 **TACC**

Task. Designate the TACCO as an Air Battle Tasker (ABT).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-681.

DESG-692 **TACC**

Task. Designate the TACCO as a Search/Rescue Coordinator (SRC).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-282.

DESG-693 **TACC**

Task. Designate the TACCO as a Deep Battle Analyst (DBA)

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-683.

DESG-694 **TACC**

Task. Designate the TACCO as an ATO Plans Officer.

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-684.

DESG-695 **TACC**

Task. Designate the TACCO as a Senior Watch Officer.

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-685.

140. SPECIAL TRAINING REQUIREMENTS. None.

150. EXPENDABLE ORDNANCE REQUIREMENTS. None.

160. PROFICIENCY INTERVALS. Table 1-13, 1-14, 1-15, and 1-16 contain the proficiency intervals for the combat readiness, combat qualification, full-combat qualification and special skills training levels.

Table 1-13. TACCO Proficiency Interval for the Combat Readiness Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	200	24	0.5			X		L

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	201	24	0.5			X		L
	202	12	1			X		S
	203	24	0.5			X		L
	204	24	0.5			X		L
CBC	210	24	1			X		L
	211	24	1			X		S/L
	212	24	1			X		L/S
ADC	220	24	1			X		L
	221	24	1			X		S/L
	222	24	1			X		L/S
ACO	230	24	1			X		L
	231	24	1			X		S/L
	232	24	1			X		L/S
QUAL	280	36	1			X	X	L
	281	36	1			X	X	L
	282	36	1			X	X	L
DESG	290	-	0					
	291	-	0					
	292	-	0					

Table 1-14. TACCO Proficiency Interval for the Combat Qualification Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
CBA	300	24	1			X		L/S
	301	24	1			X		L/S
AAP	310	24	1			X	X	L
	311	24	1			X	X	L
	312	24	2			X	X	L
ICO	320	12	1.5			X		L
	321	12	1.5			X		S/L

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	322	12	2			X		L/S
QUAL	380	36	3			X	X	L
	381	36	3			X	X	L/S
	382	36	3			X	X	L
DESG	390	-	0					
	391	-	0					
	392		0					

Table 1-15. TACCO Proficiency Interval for the Full-Combat Readiness Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SAC	400	24	0.5			X		L
	401	24	0.5			X		S/L
	402	24	1			X		L/S
AC2P	410	24	0.5			X		L/S
	411	24	0.5			X	X	L/S
QUAL	480	36	1			X	X	L
	481	36	1			X	X	L
DESG	490	-	0					
	491	-	0					

Table 1-16. TACCO Proficiency Interval for the Special Skills Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
DBC	600	24	0			X		L
	601	24	0			X		S/L
	602	24	0			X		L/S

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
ABT	610	24	0			X		L
	611	24	0			X		S/L
	612	24	0			X		L/S
SRC	620	24	0			X		L
	621	24	0			X		S/L
DBA	630	24	0			X		L/S
	631	24	0			X		L/S
ATOPL	640	24	0			X		L
	641	24	0			X		L/S
SWO	650	24	0			X		S/L
	651	24	0			X		L/S
QUAL	680	36	0			X	X	L/S
	681	36	0			X	X	L/S
	682	36	0			X	X	L/S
	683	36	0			X	X	L
	684	36	0			X	X	L/S
	685	36	0			X	X	L/S
DESG	690	-	0					
	691	-	0					
	692	-	0					
	693	-	0					
	694	-	0					
	695	-	0					

170. <u>EVENT UPDATE CHAINING</u>. Table 1-17 and 1-18 contain the event update chaining for the TACCO.

Table 1-17. TACCO Combat Ready and Combat Qualified Training Event Update Chaining

EVENTS		EVENTS UPDATED
200		
201		

EVENTS		EVENTS UPDATED
202		
203		
204		
210		
211		210, 200
212		211, 210, 200
220		
221		220, 200
222		221, 220, 200
230		
231		230, 200
232		231, 230, 200
280		212, 211, 210, 200
281		222, 221, 220, 200
282		232, 231, 230, 200
290		
291		
292		
300		
301		280, 212, 211, 210, 200
310		230
311		220
312		210
320		
321		320, 200
322		321, 320, 200
380		301, 300, 280, 212, 211, 210, 200
381		312, 311, 310, 230, 220, 210
382		322, 321, 320, 200
390		
391		
392		

Table 1-18. TACCO Full-Combat and Special Skills Training Event Update Chaining

EVENTS		EVENTS UPDATED
400		230, 220, 210, 201
401		301, 300, 231, 221, 211, 200

EVENTS		EVENTS UPDATED
402		401, 301, 300, 232, 231, 222, 221, 212, 211, 200
410		312, 311, 310, 230, 220, 210
411		312, 311, 310, 230, 220, 210
480		402, 401, 380, 301, 300, 282, 281, 280, 232, 231, 222, 221, 212, 211, 200
481		411, 410, 381, 312, 311, 310, 230, 220, 210
490		
491		

TACTICAL AIR COMMAND CENTER ENLISTED OPERATOR (TACCEO) (7234, 7242, 7236, 7212)

	PARAGRAPH	PAGE
INTRODUCTION	200	2-2
CORE COMPETENCIES/SKILLS.	201	2-2
SUMMARY/INDEX OF LIVE/SIMULATOR EVENTS.	202	2-7
UNIT TRAINING POLICIES.	203	2-10
TACCEO TRAINING PROGRESSION PHILOSOPHY	204	2-12
TRAINING PROGRESSION MODEL FOR TACCEO	205	2-12
PROGRAMS OF INSTRUCTION (POI) FOR TACCEO	206	2-13
SPECIAL DESIGNATIONS	207	2-13
GROUND/ACADEMIC TRAINING	210	2-14
TRAINING REFERENCES	211	2-18
LIVE/SIMULATOR EVENT TRAINING: TACCEO	220	2-19
LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS	230	2-20
COMPONENTS OF A T&R EVENT	231	2-21
COMBAT CAPABLE TRAINING	232	2-22
COMBAT READY TRAINING	233	2-23
COMBAT QUALIFICATION TRAINING	234	2-30
FULL-COMBAT QUALIFICATION TRAINING.	235	2-38
SPECIAL SKILLS QUALIFICATION TRAINING	236	2-42
SPECIAL TRAINING REQUIREMENTS	240	2-54
EXPENDABLE ORDNANCE REQUIREMENTS	250	2-54
PROFICIENCY INTERVALS	260	2-54
EVENT UPDATE CHAINING	270	2-56

200. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop UNIT warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective Training and Readiness (T&R) program is the first step in providing the MAGTF Commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, unit training managers can construct and execute an effective training plan which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training to satisfy the training requirements of Commanders at all levels in order to accomplish their war time mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and form the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the Systems Approach to Training used in T&R development and Marine Corps UTM principles.

3. The Marine Corps Combat Readiness Evaluation System (MCCRES) and the T&R program are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills which enable units to satisfy the requirements as outlined in their applicable volume of the MCCRES.

201. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills which support the Mission Essential Tasks (METL) derived from FMFM 5-1 and T/O mission statements, which are realistically expected to be assigned in combat.

2. **MISSION**. Function as the senior MAGTF air command and control agency and serve as the operational command post for the ACE commander and his battle staff.

3. **MISSION ESSENTIAL TASK LIST**

a. Maintain and disseminate information on the enemy and friendly situation, including the aviation and ground combat information essential to the air effort.

b. Plan and coordinate the employment of ACE communications electronics information networks and means.

c. Manage employment of all aircraft and surface-to-air weapons, and sensors within, or in support of, the MAGTF area of operations.

d. Coordinate air operations between the MACCS and air command and control agencies external to the MAGTF, to include other Service/host nation agencies.

e. Develop and promulgate Air Operations Plans and Orders, to include the MAGTF Air Tasking Order (ATO).

f. Analyze and evaluate the results of MAGTF air operations.

g. Disseminate air defense warning conditions and weapons control status to all major elements of the MAGTF.

h. Provide pertinent emission control information within the area of operations.

i. Coordinate information flow within the ACE battlestaff to facilitate efficient planning and execution of MAGTF aviation operations.

j. Plan and supervise airspace coordination.

k. Support MAGTF expeditionary operations.

l. Conduct combat operations in an NBC environment.

4. **TACC CORE CAPABILITY**

a. **Current Operations Section**. A core capable TACC Current Operations Section is capable of performing the functions of command and direction, interface coordination, close/deep battle coordination, air defense coordination, and intelligence processing and dissemination. A minimum of two core capable COS crews are required to sustain and perform those functions during contingency/combat operations, assuming that all crew positions are manned and supporting MOS's are at 80%. Sufficient TADIL, voice, tactical data networks, intelligence systems, or ATO subsystem capability exists to support operational requirements. If all crew positions are not filled, those critical functions performed by that position will be degraded. The notional Current Operations Section core capable crew of the baseline TACC consists of 60 personnel as depicted in table 2-1. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14F, Aviation T&R Manual, Volume I (ADMINISTRATIVE):

Table 2-1. Notional Current Operations Section

Current Ops Section	Ground Watch Section	Intel Watch Section	COS Command Cell	COS Close Battle Cell	COS Deep Battle Cell	COS Air Defense Cell	COS Airspace Control Cell	COS Analysis Cell	COS SAR Cell	ACE Watch Section	C2 Systems Watch Section	Interface Coord/TDC Cell
Current Ops Officer	Ground Watch Officer	Intel Watch Officer	Senior Watch Officer	Close Battle Coord	Deep Battle Coord	Air Defense Coord	Airspace Control Officer (2)	Close Battle Analyst (3)	SAR Coord Officer (2)	Comm Watch Officer	C2 Systems Watch Officer	Interface Coord Officer
Asst. Current Ops Officer	Fire Support Officer	Intel Watch Chief	Senior Air Coord	Fixed Wing Tasker (2/1)	Fixed Wing Tasker (2)	Recorder	Recorder/ Plotter	Deep Battle Analyst (3)	Recorder	C2 Maint Coord	Radio Watch NCO	Track Data Coord
Ops Chief	Engineer Officer	Intel Analyst	Crew Chief	Rotary Wing Tasker (2/3)	UAV Tasker	Plotter		Recorder /CTAPS Operator (2)		Logistics Watch Officer	Data/Comm Tech	

Current Ops Section	Ground Watch Section	Intel Watch Section	COS Command Cell	COS Close Battle Cell	COS Deep Battle Cell	COS Air Defense Cell	COS Airspace Control Cell	COS Analysis Cell	COS SAR Cell	ACE Watch Section	C2 Systems Watch Section	Interface Coord/TDC Cell
Ops Clerk	Ground Watch Chief	ELINT Analyst	Recorder	UAV Tasker	Recorder					NBC Watch Officer	Wireman	
	TCO Operator			Recorder (2)	Plotter					Force Protection Watch Officer	Radio Operator	
	AFATDS Operator			Plotter (2)						ALD/ORD Watch Officer		

b. **Future Operations Section**. A core capable TACC Future Operations Section plans for and allocates available air assets by promulgating an ATO and other related planning documents within a theater-delineated timeline. One core capable FOS crew is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed by that position will be degraded. The notional Future Operations Section core capable crew of the baseline TACC consists of 44 personnel as depicted in table 2-2. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14F, Aviation T&R Manual, Volume I (ADMINISTRATIVE):

Table 2-2. Notional Future Operations Section

Ops Admin Section	Ground Watch Section	Orders Development Section	ATO Development Section	Intelligence Watch Section
Future Operations Officer	Ground Watch Officer (2)	Orders Development Officer	ATO Development Officer	Intel Watch Officer (2)
Asst. Future Operations Officer	Ground Watch Clerk (2)	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst (2)
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner (2)	
			Airspace Control Measures Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

c. **Future Plans Section**. A core capable TACC Future Plans Section is responsible to the ACE G-3 for aviation planning in support of the next MEF mission change. One core capable future plans section is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed by that position will be degraded. The notional future plans section core capable crew of the baseline TACC consists of 44 personnel as depicted in table 2-3. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14F, Aviation T&R Manual, Volume I (ADMINISTRATIVE):

Table 2-3. Notional Future Plans Section

Ops Admin Section	Ground Watch Section	Orders Development Section	ATO Development Section	Intelligence Watch Section
Future Operations Officer	Ground Watch Officer	Orders Development Officer	ATO Development Officer	Intel Watch Officer
Asst. Future Operations Officer	Ground Watch Clerk	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner	
			Air Support Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

d. **Billet-Syllabus Qualification Matrix**. Table 2-4 and 2-5 contain a billet-syllabus qualification matrix for the current and future operations sections.

Table 2-4. TACC CURRENT OPERATIONS SECTION BILLET-SYLLABUS QUALIFICATION MATRIX

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
CURRENT OPERATIONS WATCH SECTION	Senior Watch Officer (SWO)	Senior Watch Officer (**SWO**)
	Senior Air Coordinator (SAC)	Senior Air Coordinator (**SAC**)
	Crew Chief (CC)	TACC Crew Chief (**TACC-CC**)

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
	Recorder	Recorder (**RCDR**)
DEEP BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (**ABT**)
	Deep Battle Coordinator	Deep Battle Coordinator (**ABC**)
	UAV Tasker	Air Battle Tasker (**ABT**)
	Fixed Wing Recorder	Recorder (**RCDR**)
	Fixed Wing Plotter	Plotter (**PLTR**)
CLOSE BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (**ABT**)
	Rotary Wing Tasker	Air Battle Tasker (**ABT**)
	UAV Tasker	Air Battle Tasker (**ABT**)
	Air Support Rep/Close Battle Coordinator	Close Battle Coordinator (**CBC**)
	Fixed Wing Recorder	Recorder (**RCDR**)
	Fixed Wing Plotter	Plotter (**PLTR**)
	Rotary Wing Recorder	Recorder (**RCDR**)
	Rotary Wing Plotter	Plotter (**PLTR**)
AIR DEFENSE COORDINATION CELL	Air Defense Coordinator (ADC)	Air Defense Coordinator (**ADC**)
	Air Defense Recorder	Recorder (**RCDR**)
	Air Defense Plotter	Plotter (**PLTR**)
AIRSPACE CONTROL CELL	Airspace Control Officer (ACO)	Airspace Control Officer(**ACO**)
	Airspace Plotter/Recorder	Plotter (**PLTR**) Recorder (**RCDR**)
INTERFACE CONTROL/ TRACK DATA CELL	Interface Coordination Officer (ICO)	Interface Coordination Officer (**ICO**)
	Track Data Coordinator (TDC)	Track Data Coordinator (**TDC**)
BATTLE DAMAGE ASSESSMENT CELL	Close Battle Analyst	Air Battle Analyst (**ABA**)
	Deep Battle Analyst	Air Battle Analyst (**ABA**)
	Recorder/CAFMS Oper	Recorder (**RCDR**)
SAR COORDINATION CELL	SRCC Officer	**SRCC**
	SRCC Recorder	Recorder (**RCDR**)

Table 2-5. TACCO FUTURE OPERATIONS SECTION BILLET-SYLLABUS QUALIFICATION MATRIX

FUTURE OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
ATO DEVELOPMENT SECTION	ATO Development Officer (ATODO)	ATO Development Officer (**ATODO**)
ATO PLANNING CELL	ATO Planning Officer (ATOPLO)	ATO Planning Officer (**ATOPLO**)
	Strike Planner	ATO MSN Planner (**ATOMP**)
	EW Planner	ATO MSN Planner (**ATOMP**)
	Support Planner	ATO MSN Planner (**ATOMP**)
	UAV Planner	ATO MSN Planner (**ATOMP**)
	Airspace Control Measures Planner	ATO/ACO Planner (**AAP**)
	Air Defense Planner	ATO/ACO Planner (**AAP**)
	Air Support Planner	ATO/ACO Planner (**AAP**)
ATO PRODUCTION CELL	ATO Production Officer (ATOPRO)	ATO Production Officer (**ATOPRO**)
	SPINS/ACP/ADP Production Officer	N/A
	ATO Production Chief	N/A
	ATO Production Clerk	N/A
ORDERS DEVELOPMENT SECTION	Orders Development Officer	Orders Development Officer (**ORDO**)
	Strike Plans Officer	Orders Development Planner (**ORDP**)
	Support Plans Officer	Orders Development Planner (**ORDP**)
	C2 Plans Officer	AVN C2 Planner (**AC2P**)

202. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. COMBAT CAPABLE TRAINING. The Combat Capable Training phase of training is accomplished at the Marine Air Control Squadron and Marine Air Support Squadron through on the job training within a Marine's primary MOS. A prerequisite to personnel being assigned to the Tactical Air Command Center is

the completion of the Combat Qualification Training (300 level) Syllabus for their respective MOS.

2. COMBAT READY TRAINING. Table 2-6 contains a listing of the combat readiness training events and associated page numbers.

Table 2-6. Combat Readiness Training List

EVENT	TASK	PAGE
SYS-200	Operate communications equipment	2-23
SYS-201	Set up a TACC for operations	2-23
SYS-202	Conduct TACC operations	2-24
SYS-203	Set up the TCO/MSBL system for operations	2-24
SYS-204	Set up the Battle Management Equipment for operations	2-25
PLTR-210	Perform TCO/MSBL operator functions	2-26
PLTR-211	Perform TCO/MSBL operator functions; exercise	2-26
PLTR-212	Enter database information	2-27
PLTR-213	Create manual plotting displays	2-27
PLTR-214	Conduct manual plotting	2-28
QUAL-280	Qualify the TACCEO as a Plotter	2-29
DESG-290	Designate the TACCEO as a Plotter	2-30

3. COMBAT QUALIFICATION TRAINING. Table 2-7 contains a listing of the combat readiness training events and associated page numbers.

Table 2-7. Combat Qualification Training List

EVENT	TASK	PAGE
RCDR-300	Perform as a Recorder/BME Operator	2-31
RCDR-301	Perform Recorder/BME Operator functions	2-31
RCDR-302	Perform Recorder/BME Operator functions	2-32
TDC-310	Perform TDC functions; serial link	2-33
TDC-311	Perform TDC functions; netted link	2-34
TDC-312	Perform TDC functions; nodeless link	2-34
TDC-313	Perform TDC functions; exercise	2-35
TDC-314	Perform TDC functions; live exercise	2-36
QUAL-380	Qualify the TACCEO as a Recorder/BME Operator	2-32
QUAL-381	Qualify the TACCEO as a Track Data Coordinator	2-37
DESG-390	Designation as a Recorder/BME Operator	2-38
DESG-391	Designation as a Track Data Coordinator	2-38

4. FULL COMBAT QUALIFICATION TRAINING. Table 2-8 contains a listing of the full combat qualification training events and associated page numbers.

Table 2-8. Full Combat Qualification Training List

EVENT	TASK	PAGE
CC-400	Perform Crew Chief functions	2-39
CC-401	Prepare the TACC for embarkation and set up	2-39
CC-402	Perform as a Crew Chief	2-40
QUAL-480	Qualify the TACCEO as a Crew Chief	2-41
DESG-490	Designation as a Crew Chief	2-42

5. INSTRUCTOR QUALIFICATION TRAINING. None.

6. SPECIAL SKILLS TRAINING AND DESIGNATION. Table 2-9 contains a listing of the special skills training and designations training events and associated page numbers.

Table 2-9. Special Skills Training and Designation List

EVENT	TASK	PAGE
ADC-600	Conduct Air Defense planning	2-43
ADC-601	Perform as an Air Defense Coordinator	2-43
ADC-602	Perform as an Air Defense Coordinator	2-45
ICO-610	Develop planning documents	2-46
ICO-611	Perform as an Interface Control Officer	2-47
ICO-612	Perform as an Interface Control Officer	2-48
CBC-620	Conduct Close Battle Cell planning	2-49
CBC-621	Perform as a Close Battle Coordinator (CBC)	2-50
CBC-622	Perform as a Close Battle Coordinator (CBC)	2-52
QUAL-680	Qualify the TACCEO as an Air Defense Coordinator	2-45
QUAL-681	Qualify the TACCEO as an Interface Control Officer	2-48
QUAL-682	Qualify the TACCEO as a Close Battle Coordinator	2-52
DESG-690	Designate the TACCEO as an Air Defense Coordinator	2-53
DESG-691	Designate the TACCEO as an Interface Control Officer	2-53
DESG-692	Designate the TACCEO as a Close Battle Coordinator	2-54

6. OPERATOR CORE SKILLS. Core skills are depicted in the following matrix (table 2-10) and directly support the METL for each Unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 2-10. Core Skills

	CORE TASKS/SKILLS				CORE PLUS TASKS/SKILLS			
METL	SYS	PLTR	RCDR	TDC	CC	ADC	CBC	ICO
A	200 203 204	210 211 212 213 214 280	300 301 302 380	310 311 312 313 314 381	402 480	601 602 680	621 622 682	611 612 681

METL	SYS	PLTR	RCDR	TDC	CC	ADC	CBC	ICO
B	200 201 203 204			310 311 312 313 314 381	400 402 480	600 601 602 680	620 621 622 682	610 611 612 681
C	200	212 214 280	301 302 380			600 601 602 680	620 621 622 682	610 611 612 681
D	200	212 214 280	300 301 302 380	310 311 312 313 314 381	402 480	600 601 602 680	620 621 622 682	
E	203 204							610 611 612 681
F		210 211 212 214 280				601 602 680	621 622 682	
G	200	212 280	300 301 302 380			601 602 680	621 622 682	
H	200					600 601 602 680	621 622 682	611 612 681
I	200 203 204	210 211 212 280	300 301 302 380	310 311 312 313 314 381	402 480	600 601 602 680	620 621 622 682	610 611 612 681
J	204					600 601 602 680	620 621 622 682	610 611 612 681
K	200 201 203 204	210 211 212 214 280		310 311 312 313 314 381	401 480	601 602 680	621 622 682	
L	202							

203. UNIT TRAINING POLICIES

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Commanding Officers will ensure that this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation unit in combat lies at the heart of the T&R program. Unit readiness and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform those critical skills required in combat is essential.

3. Commanders shall ensure that all tactical training is conducted to a MCCRES standard. The MCCRES, as outlined in MCO P3501.1, is the unit training standard, and all syllabus events shall be tailored to meet MCCRES requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors which all commanders must address include, but are not limited to the following:

a. **Efficiency.** Time and resources expended are measurements for training efficiency. Commanders must ensure that all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. **Individual Differences**. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. **Decentralization of Training**. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. Commanders shall provide personnel the opportunities to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit.

6. **Risk Management**. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. **MACCS Integrated System Training.** All elements of the MACCS shall maintain the capability to effectively function as part of an integrated airspace command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEXs should focus on the establishment of necessary communications and data links between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Information Link capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

204. TACCEO TRAINING PROGRESSION PHILOSOPHY

1. The purpose of this syllabus is to develop and refine those skills required for the Tactical Air Command Center Enlisted Operator (TACCEO) to function as a Track Data Coordinator (TDC) and/or Crew Chief (CC) within a core capable TACC Current Operations crew. The progression of the TACCEO through the syllabus has been tailored towards that end. It is incumbent upon the squadron commander to ensure that each event is completed in accordance with each performance standard established for that event.

205. TACCEO TRAINING PROGRESSION MODEL

1. The Training Progression Model for the TACCEO is depicted in figure 2.1.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those qualifications an individual reports to the unit with (accession qualifications) after completion of the MOS-qualifying school. The highest tier of the progression model will contain those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable tier will in most cases be accomplished at the completion of initial MOS skills training. With successful completion of the combat capable tier, unit personnel are assigned basic MOS qualification and progress to the Combat Ready tier.

4. On the Combat Ready tier, qualifications that are normally made available to fairly inexperienced personnel will be delineated. This tier should take the individual who has completed initial MOS skills training and make him or her proficient in core competencies. With successful completion of the combat ready tier, unit personnel move to the Combat Qualification tier.

5. The Combat Qualification tier will be that portion of the model that produces combat leaders and fully qualified crewmembers. The personnel that are being trained in the combat qualification tier are those men/women a Commanding Officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Full Combat Qualification tier contains special skills which are not prerequisite to combat qualification, or the ability to function as combat leaders. A certain number of FCQ individuals must be maintained to accomplish assigned missions or tasks.

a. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the Commanding Officer with oversight of the unit training program.

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of

qualifications delineated, and an emphasis on the qualification of "combat ready" and "combat qualified" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

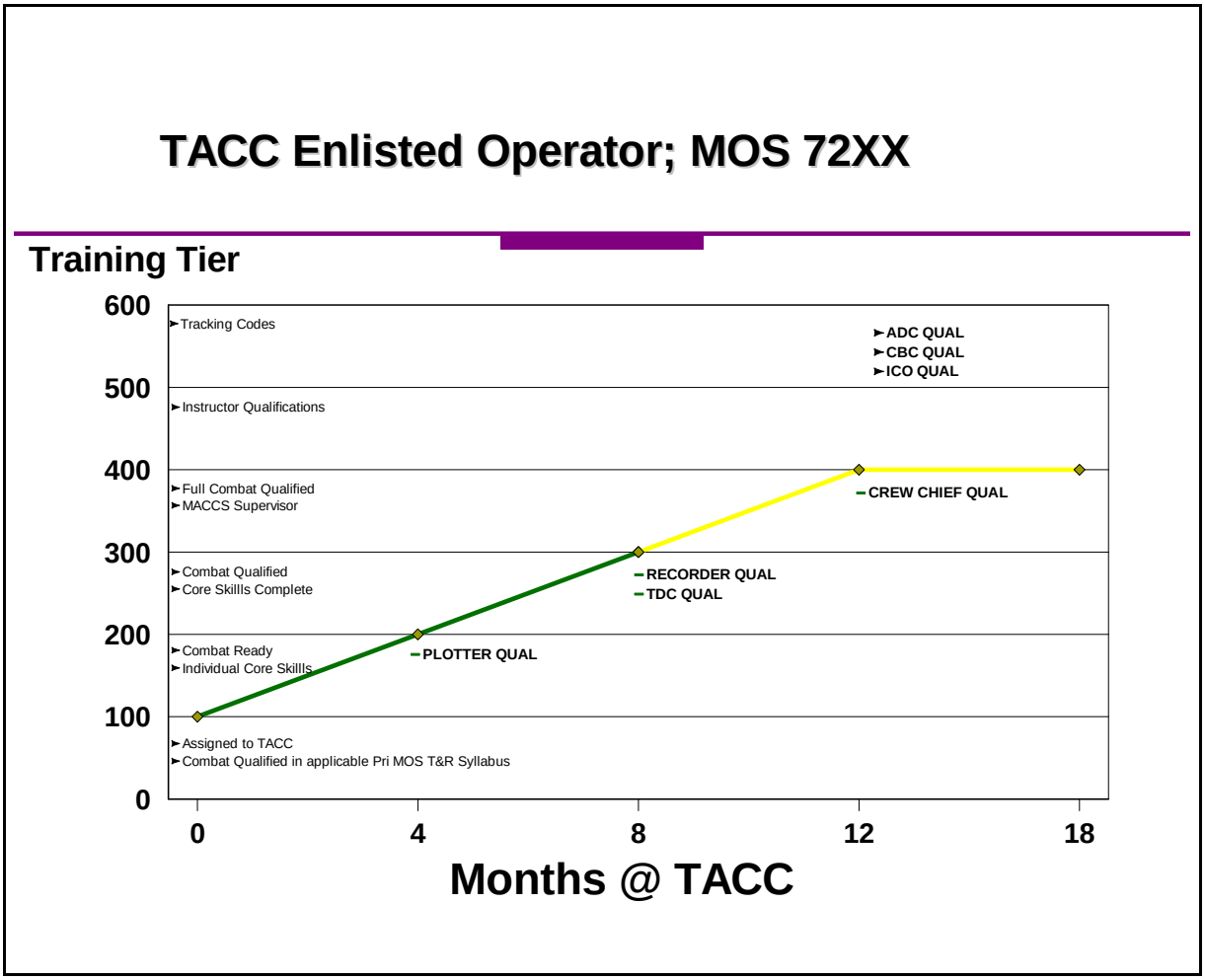


Figure 2.1. TACCEO Training Progression Model

206. <u>PROGRAMS OF INSTRUCTION (POI) FOR TACCEO</u>. Not Applicable.

207. <u>MISSION QUALIFICATIONS/DESIGNATIONS</u>

1. **<u>Plotter (PLTR) Qualification</u>**. A TACCEO is PLTR qualified after having completed the required 200 level events of the T&R syllabus. The Marine shall be certified as a PLTR by a designated SAC and designated PLTR qualified by the Wing battlestaff trainer. The Marine shall have a letter in his or her MACCS Performance Record stating the qualification.

2. **<u>Recorder (RCDR) Qualification</u>**. A TACCEO is RCDR qualified after having completed the required 300 level events of the T&R syllabus. The Marine shall be certified as an RCDR by a designated SAC and designated RCDR qualified by

the Wing battlestaff trainer. The Marine shall have a letter in his or her MACCS Performance Record stating the qualification.

3. **Track Data Coordinator (TDC) Qualification**. A TACCEO is TDC qualified after having completed the required 300 level events of the T&R syllabus. The officer shall be certified as a TDC by a designated SAC and designated TDC qualified by the Wing battlestaff trainer. The Marine shall have a letter in his or her MACCS Performance Record stating the qualification.

4. **TACC Crew Chief (TACC-CC) Qualification**. A TACCEO is TACC-CC qualified after having completed the required 400 level events of the appropriate T&R syllabus. The Marine shall be certified as a TACC-CC by a designated SAC and designated TACC-CC qualified by the Wing battlestaff trainer. The Marine shall have a letter in his or her MACCS Performance Record stating the qualification.

5. **Air Defense Coordinator (ADC) Qualification**. A TACCEO is ADC qualified after having completed the required 400 level training events of the T&R syllabus. The MACCS Officer shall be certified as an ADC by a designated SAC and designated ADC qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her MACCS Performance Record stating the qualification.

6. **Close Battle Coordinator (CBC) Qualification**. A TACCEO is CBC qualified after having completed the required 400 level training events of the T&R syllabus. The officer shall be certified as a CBC by a designated SAC and designated CBC qualified by the Wing battlestaff trainer. The Marine shall have a letter in his or her MACCS Performance Record stating the qualification.

7. **Interface Control Officer (ICO) Qualification**. A TACCEO is ICO qualified after having completed the required 400 level events of the T&R syllabus. The officer shall be certified as a ICO by a designated SAC and designated ICO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her MACCS Performance Record stating the qualification.

210. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 2-11 into their training plans. Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 2-11. Required T&R Lectures

Lecture Code	Lecture Title	Sponsor
	200 Level: Combat Ready Training	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES

Lecture Code	Lecture Title	Sponsor
	The Six Functions of Marine Aviation	
A-03	v Control of Aircraft & Missiles	MAWTS-1 ASP
A-04	v Offensive Air Support	MAWTS-1 ASP
A-05	v Assault Support	MAWTS-1 ASP
A-06	v Electronic Warfare	MAWTS-1 ASP
A-07	v Aerial Reconnaissance	MAWTS-1 ASP
A-08	v Anti-Air Warfare	MAWTS-1 ASP
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	MCCES
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	MAWTS-1 ASP
A-14	MACCS Communications	MAWTS-1 ASP
A-15	CTAPS Overview	MAWTS-1 ASP
A-16	Data Link Symbology	MCCES
A-17	Manual Crosstell procedures	MCCES
A-18	Encryption & Authentication Procedures	MCCES
A-19	COMSEC & Crypto handling	MCCES

	300 Level: Combat Qualified Training	
B-01	ASM/SSM Threat	MAWTS-1 ASP
B-02	Fixed Wing Threat	MAWTS-1 ASP
B-03	Rotary Wing Threat	MAWTS-1 ASP
B-04	REC Threat	MAWTS-1 ASP
B-05	Ground Threat	MAWTS-1 ASP
B-06	AOR Specific Threat & OP PLANS	Local MACG
	MACCS Agencies	
B-07	v TACC	MAWTS-1 ASP
B-08	v TAOC	MAWTS-1 ASP
B-09	v DASC	MAWTS-1 ASP
B-10	v ATC Detachment	MAWTS-1 ASP
B-11	v LAAD Bn	MAWTS-1 ASP
B-12	v Air Defense Detachment	MAWTS-1 ASP
B-13	v MWCS	MAWTS-1 ASP
B-14	AEW	MAWTS-1 ASP
B-15	MACCS/Joint Data link	MAWTS-1 ASP
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1 ASP
B-18	Airspace Planning/Management (Combat Airspace)	MAWTS-1 ASP
B-19	Tanker Management	MAWTS-1 ASP
B-20	Armed Reconnaissance	MAWTS-1 ASP
B-21	UAV Programs & Integration	MAWTS-1 WTI *
B-22	Link Architecture & Procedures	MAWTS-1 WTI *

Lecture Code	Lecture Title	Sponsor
B-23	CSAR/TRAP	MAWTS-1 ASP
B-24	NEO Execution	MAWTS-1 ASP
B-25	Execution Checklist	MAWTS-1 WTI *

	400 Level: Full Combat Qualified Training	
C-01	Integrated Combat Airspace Command & Control ($ICAC^2$)	MAWTS-1 ASP
C-02	Joint Air Operations	MAWTS-1 ASP
C-03	Theater Missile Defense	MAWTS-1 WTI *
C-04	MACCS in support of Special Operations	MAWTS-1 WTI *
C-05	ROE Development	MAWTS-1 WTI *
C-06	SIS Aircraft	MAWTS-1 ASP
C-07	JTAO Procedures	MCCES

(*) The lecture code is standardized throughout all MACCS related syllabi, and is used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may not be listed sequentially.

2. Academic training listed in table 2-12 is recommended for personnel assigned to the TACC.

Table 2-12. TACC ACADEMIC SYLLABUS

CODE	CLASS TITLE	SECTION	72XX	75XX	02XX
T-01	AAW DOCTRINE		X	X	
T-02	ADC RESPONSIBILITIES		X	X	
T-03	AIR DEFENSE SECTORS/ZONES		X	X	
T-04	AIRSPACE MANAGEMENT		X	X	
T-05	ASSAULT SUPPORT REQUEST (ASR)		X	X	
T-06	ATOs AND FRAGs		X	X	X
T-07	AUTHENTICATION PROCEDURES		X	X	
T-08	AVIATION ORDNANCE/SCL		X	X	
T-09	BRIEFING AND DEBRIEFING PROCEDURES	AS REQD			
T-10	C4I SYSTEMS		X	X	X
T-11	CAP MANAGEMENT		X	X	
T-12	CC RESPONSIBILITIES		X	X	
T-13	COMMAND AND CONTROL OF AMPHIBIOUS OPS		X	X	X
T-14	COMMUNICATIONS NETS		X	X	X
T-15	COORDINATION REQUIREMENTS		X	X	X

CODE	CLASS TITLE	SECTION	72XX	75XX	02XX
T-16	CREW COORDINATION		X	X	X
T-17	CSAR/TRAP		X	X	X
T-18	CTAPS APPLICATIONS		X	X	X
T-19	DATA LINK TROUBLESHOOTING		X		
T-20	DATA LINK OPS MESSAGES		X		
T-21	DATA LINK OPERATIONS		X		
T-22	EMCON PLANNING		X	X	X
T-23	EMERGENCY PROCEDURES		X	X	
T-24	EP CAPABILITIES		X	X	
T-25	IADS EMPLOYMENT		X	X	
T-26	IDENTIFICATION PROCEDURES		X	X	
T-27	INTERFACE COORDINATION		X		
T-28	INTERNAL/EXTERNAL INFORMATION FLOW		X	X	X
T-29	INTRODUCTION TO TACC SYSTEMS		X	X	X
T-30	INTRODUCTION TO ELECTRONIC WARFARE		X	X	X
T-31	JOINT TACTICAL AIRSTRIKE REQUEST (JTAR)		X	X	X
T-32	MANUAL CROSS-TELL		X	X	
T-33	MSCS OPERATIONS		X		
T-34	OPLANS & OPORDERS		X	X	X
T-35	PLOTTING SYMBOLOGY		X	X	X
T-36	RCC OPERATIONS		X	X	X
T-37	RULES OF ENGAGEMENT (ROE)		X	X	X
T-38	SEAD		X	X	X
T-39	SECURITY OF CLASSIFIED MATERIAL		X	X	X
T-40	SUPPORTING ARMS INTEGRATION		X	X	
T-41	T&R PROGRAM		X	X	X
T-42	TACC CREW BRIEF		X	X	X
T-43	TACC REPORTS/FORMATS		X	X	X
T-44	TACC CASUALTY PROCEDURES		X	X	X
T-46	TACC EMPLOYMENT & POWER REQUIREMENTS		X		
T-47	TADIL-A		X		
T-48	TADIL-B/NATO LINK 1		X		
T-49	TADIL-J		X		
T-50	TANKER MANAGEMENT		X	X	

CODE	CLASS TITLE	SECTION	72XX	75XX	02XX
T-51	TCO/MSBL OPERATIONS		X		X
T-52	TDC RESPONSIBILITIES		X		
T-53	TDS PLATFORMS		X		
T-54	THEATER AIR GROUND SYSTEM		X	X	X
T-55	UNMANNED AERIAL VEHICLES (UAVS)		X	X	X
T-56	WEATHER		X	X	X
T-57	AFATDS OPERATIONS		X	X	X

3. External academic courses of instruction available to complete the syllabus are listed below.

COURSE	ACTIVITY
Multi-TADIL Advanced Joint Interface Course (MAJIC)	FORCECOM
JTIDS Course	FORCECOM
JTIDS Network Design & System Management (JNDSM)	FORCECOM
Joint Aerospace Computer Applications Course	FORCECOM
Joint Aerospace Command and Control Course (JACAC)	FORCECOM
TCO Operator’s Course	EWTG
Joint Air Operations Staff Course (JAOSC)	FORCECOM
Military Airspace Management Course	FORCECOM

211. TRAINING REFERENCES. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

TITLE	
ACP-125	Allied Communication Publication
CJCSM 6120.01A	Joint Multi-TADIL Operational Procedures
CCS-TRTBM-A017	CTAPS Software User’s Manual (SUM) Lockheed Martin
DASC PCL	DASC Pocket Checklist
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 3-30	Communications
FMFM 6-18	Techniques and Procedures for Fire Support Coordination.
FMFRP 5-62	Multi-Service Procedures for the Theater Air-Ground System
JtDivO P3120.23	FSC SOP
Joint Pub 3-03	Doctrine for Joint Interdiction Operations
Joint Pub 3-09.3	JTTP for Close Air Support
Joint Pub 3-01.4	JTTP for Joint SEAD
Joint Pub 3-01.5	Doctrine for Joint Theater Missile Defense
Joint Pub 3-54	Joint Doctrine for OPSEC
MCM 3-1 Vol II	Threat Reference Manual
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
MCRP 3-16.1F	Targeting
MCRP 3-16.8B	MSP for the Joint Application of Firepower (J-FIRE)

MCRP 3-23A	Joint Air Attack Team Manual
MCRP 3-25A	MSP for AWACS in GBAD Operations
MCWP 3-2	Aviation Operations
MCWP 3-23.1	Close Air Support
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook
MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.12	MWCS Handbook
NWP 22	Air Control in Amphibious Operations
NWP 32	Anti-Air Warfare
OPNAVINST 3710	NATOPS MANUAL
TM-11240 Series	Motor Transport Technical Characteristics
TM 10149A-13&P/1	Operation Instructions - Tactical Combat Operations (TCO)
TSC-125-96-U	TCO Student Guide
12R4-MSCS-760-005	Operator’s Reference Manual (MSCS)
	TOPGUN Manual
	AGOS Manual
	Understanding Link 4A/11/16
	Understanding Data Links
	F/A-18 Tactics Manual (TACMAN)

220. LIVE/SIMULATOR EVENT TRAINING: TACCEO

1. Combat Capable Training

STAGE	EVENTS	PERCENT
COMBAT QUALIFIED SYLLABUS AT MACS/MASS/LAAD BN		60.00%

2. Combat Ready Training

STAGE	EVENTS	PERCENT
SYSTEM TRAINING	5	5.00%
PLOTTER TRAINING	6	10.00%
COMBAT READY TOTALS:	11	15.00%

3. Combat Qualification Training

STAGE	EVENTS	PERCENT
RECORDER/BME OPERATOR TRAINING	4	8.00%
TRACK DATA COORDINATOR TRAINING	6	12.00%

COMBAT QUALIFICATION TOTALS:	10	20.00%

4. **Full Combat Qualification Training**

STAGE	EVENTS	PERCENT
CREW CHIEF TRAINING	4	5.00%
FULL COMBAT QUALIFICATION TOTALS:	4	5.00%

5. **Instructor Training**

STAGE	EVENTS	PERCENT
NOT APPLICABLE	0	0.00%

6. **Special Skills Training**

STAGE	EVENTS	PERCENT
AIR DEFENSE COORDINATOR TRAINING	4	0.00%
INTERFACE CONTROL OFFICER TRAINING	4	0.00%
CLOSE BATTLE COORDINATOR TRAINING	4	0.00%
SPECIAL SKILLS TRAINING TOTALS:	12	0.00%
TACCEO MOS 72XX T&R SYLLABUS TOTALS:	**37**	**100.00%**

230. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. **General**. The majority of the Tactical Air Command Center Enlisted Operator syllabus is ground training which requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified Tactical Air Command Center Enlisted Operator.

a. **Live Training**. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

b. **Simulator Training**. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted in the Tactical Air Command Center (TACC). Training not conducted in the TACC shall be replaced with live training where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

2. **Minimum Performance Time for Syllabus "Write-Off"/Designations**. Personnel may receive credit for successful completion of any syllabus requirement/performance standards (except qualifications) upon either a written, oral, or practical demonstration of proficiency, at the Commanding Officer's discretion. Completion of 80 percent of any syllabus event (except qualifications) may be "written-off" as complete at the discretion of the designated evaluator. Qualifications require a completed performance evaluation, and the designation signed by the Commanding Officer.

3. **Evaluation of Training**. Evaluation of those portions of the syllabus which are academic in nature will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per T&R Manual, Volume 1, and the standardized evaluation forms located in the appendix to this syllabus.

231. COMPONENTS OF A T&R EVENT

1. **General**. An event contained within a T&R Manual is an Individual or collective training standard and contains seven or eight components, dependent on the tier in which they are contained:

1/	2/	3/	4/	5/	6/
SAM-XXX	**0.5**	**T,C,R,**	**E**	**EQUIP**	**L/S (NS)**

TASK: The title of a unit of work which needs to be done in the performance of a Marine's duties. It is a clearly stated performance-oriented action requiring learned skills and knowledge, i.e. Engage a rotary winged aircraft.

CONDITION(S): The condition(s) set for the real-world or combat circumstances in which the tasks are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this should be stated.

STANDARD(S): The performance standard indicates the basis for judging the effectiveness of the performance. It consists of a carefully worded statement which identifies the proficiency level expected when the task is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

PERFORMANCE STEP(S): *Listed for 100 level T&R events only.* Performance steps are the actions or decisions required to fulfill proficiency established by the standard. The major performance steps which are required to perform

the task to proficiency are listed in the order of performance. Minor steps are not listed.

PREREQUISITE(S): Provides a listing of academic training or other T&R events which must be completed prior to satisfying the task.

REFERENCE(S): Listing of doctrinal or reference publications which may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

ORDNANCE: A listing of Ordnance types and quantities required to satisfy the Task.

EXTERNAL SUPPORT REQUIREMENT(S): A listing or description of the external support requirements which may be required to satisfy completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES: 1/ Events are coded per Appendix B of T&R Manual Vol 1.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable Program of Instruction (Basic POI is understood).

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed.

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision Device; Where contained within **( )** denotes optional conditions.

232. COMBAT CAPABLE TRAINING

1. COMBAT CAPABLE STAGE. All Combat Capable training (100 series) will be accomplished by completing the Combat Qualification Syllabus of each Marine's primary MOS.

233. C0MBAT READY TRAINING

1. System Training

a. **Purpose**. To develop the skills required to maintain proficiency in operating Tactical Air Command Center equipment.

b. **General**. Contains the tactical and technical information necessary to maintain system proficiency.

c. **Prerequisite**. None.

d. **Live Training (5 Events)**

SYS-200 R TACC L

Task. Operate communications equipment.

Condition(s). Using appropriate codewords and communications brevity terms.

Standard(s). Properly utilize the available communications suite:

(1) Internal communications (ICS)

(2) Radio nets.

(3) Switchboard nets.

(4) Demonstrate mastery of proper authentication procedures.

(5) Utilization of proper radio transmission procedures in both secure and unsecured modes.

(6) Successfully complete 80% of the above listed standards.

Reference(s). TACC TM's.

Prerequisite(s). Academics: A-14, A-18, A-19, T-07, T-14, T-30.

External Syllabus Support. External agencies.

SYS-201 R TACC L

Task. Setup a TACC for operations.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s). Properly set up a Current/Future Operations Section.

(1) Unpack and set up work stations.

(2) Install LSDs/Plotting Boards.

(3) Create and install Status Boards.

(4) Erect tactical shelters, as required.

(5) Successfully complete 80% of the above listed standards.

Reference(s). TACC Handbook, Local SOPs, and TACC TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-202 **R** **TACC** **S**

Task. Conduct TACC operations.

Condition(s). Operate in a simulated NBC environment using MOPP equipment.

Standard(s). Perform crew requirements while in MOPP level 4.

Reference(s). NBC Standard Operating Procedures.

Prerequisite(s). NBCD training and MOPP level exchange.

External Syllabus Support. None.

SYS-203 **R** **TACC** **L**

Task. Set up the TCO/MSBL system for operations.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Properly assemble the TCO/MSBL workstation.

(2) Properly install hard drives and apply power to the system.

(3) Properly power down the TCO/MSBL system.

(4) Connect TCO/MSBL to communications media.

(5) Successfully complete 80% of the above listed standards.

Reference(s). TSC-125-97-U, TCO Student Guide.

Prerequisite(s). Academics: T-10, T-29, T-51.

External Syllabus Support. None.

SYS-204 **R** **TACC** **L**

Task. Set up the Battle Management Equipment for operations.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Properly assemble the CTAPS/TBMCS workstation.

(2) Properly apply power to the system.

(3) Properly power down the CTAPS/TBMCS system.

(4) Connect CTAPS/TBMCS to communications media.

(5) Successfully complete 80% of the above listed standards.

Reference(s). CCS-TRTBM-A017, CTAPS Software User’s Manual, AGOS CBT.

Prerequisite(s). Academics: A-15, T-10, T-29.

External Syllabus Support. None.

2. **Plotter (PLTR) Training**

a. **Purpose**. To refine the TACCEO's skills required for the Plotter qualification, and to provide the means for a designated Plotter to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions required for Plotter qualification, and gain proficiency and maintain currency on TACC systems training.

(b) During each Plotter event the TACCEO must demonstrate proficiency in passing/receiving information, maintaining situational awareness (S/A) and plotting information, using the appropriate report formats, making appropriate entries required for TCO operations and functioning as a member of the Current Operations Section.

(c) At least one TCO performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite(s)**. A TCO/MSBL Operator's course of instruction.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCEO has been absent from a TACCEO billet for 16 months or longer. Upon return to an appropriate billet the TACCEO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent, task organized TACC crew is required for exercise events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (6 Events)**

PLTR-210 **R** **TACC** **L**

Task. Perform TCO/MSBL Operator functions.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Utilize chart menu options for display management purposes.

(2) Utilize map menu options for display management purposes.

(3) Create, edit, update and delete track/unit information, communications tables, and filters.

(4) Create and utilize overlay functions.

(5) Perform track grouping functions.

(6) Send and receive OpNotes/Operator messages.

(7) Successfully complete 80% of the above listed standards.

Reference(s). TSC-125-97-U, TCO Student Guide.

Prerequisite(s)

(1) SYS-203.

(2) Academics: T-05, T-31.

External Syllabus Support. None.

PLTR-211 **R** **TACC** **L/S**

Task. Perform TCO/MSBL Operator functions.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements listed in PLTR-210.

(2) Successfully complete 80% of the above listed standards.

Reference(s). TSC-125-97-U, TCO Student Guide.

Prerequisites

(1) PLTR-210.

(2) Academics: None.

External Syllabus Support. None.

PLTR-212 **R** **TACC** **S/L**

Task. Enter database information.

Conditions. Utilizing current tactical data management systems.

Standards. Demonstrate proficiency in the following areas:

(1) Entering, modifying, and deleting all airspace control measures (ACM) data into the database.

(2) Plot JTARs/ASRs, and required threat information as appropriate.

(3) Advise the Crew Chief of any potential conflicts in airspace or procedures.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MAWTS-1 ASP.

Prerequisite(s). Academics: A-09, T-33, T-35.

External Syllabus Support. None.

PLTR-213 **R** **TACC** **S/L**

Task. Create manual plotting displays.

Condition(s). Using either grease board or computer application.

Standard(s)

(1) Demonstrate proficiency creating a Cartesian Grid display.

(2) Demonstrate proficiency creating a Polar Grid display.

(3) Demonstrate proficiency creating a GEOREF display.

(4) Demonstrate proficiency creating a UTM Grid display.

(5) Demonstrate proficiency creating a Zone Defense Grid display.

(6) Demonstrate understanding of Lat/Long plotting procedures.

(7) Identify and correctly plot the Known Reference Point (KRP).

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MAWTS-1 ASP.

Prerequisite(s). Academics: A-17.

External Syllabus Support. None.

PLTR-214 **R** **TACC** **S/L**

Task. Conduct manual plotting.

Condition(s). During an exercise, with external C3 agencies.

Standard(s). Demonstrate proficiency in the following areas:

(1) Understanding of aviation and ground symbology.

(2) Understanding of Manual Crosstell priorities.

(3) Using the established/published crosstell format to pass/receive track information on the appropriate net(s).

(4) Post and maintain non-real time (NRT) tracks based on information received from external agencies.

(5) Updating all ACM/FSCM/ADCMs in effect.

(6) Updating friendly and enemy positions on situation maps.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, 3.25.10, NWP-32.

Prerequisite(s)

(1) PLTR-213.

(2) Academics: A-13, A-16, T-32, T-35, T-37.

External Syllabus Support. External C3 agencies.

QUAL-280 **R E** **TACC** **L/S**

Task. Qualify the TACCEO as a Plotter.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in PLTR-211, 212, and 214.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, 3.25.10.

Prerequisite(s). PLTR-211, 212, 214.

External Syllabus. External C3 agencies.

4. **COMBAT READY DESIGNATIONS**

a. **Purpose**. To designate the TACCEO as a Plotter (PLTR).

b. **General**

(1) **Administrative Notes**

(a) A TACCEO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the plotter will be certified by a designated SAC and a recommendation for designation will be staffed to the MAW Battlestaff trainer.

(c) The TACCEO shall have a designation letter awarded, with any waivers deferments or endorsements, and will be filed in the MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Combat Capable stage of training.

(b) Completion of the MACCS Academic COI (200 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Designation Events (1 Event)**

DESG-290 **TACC**

Task. Designate the TACCEO as a Plotter (PLTR).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-280.

234. COMBAT QUALIFICATION TRAINING

1. **Recorder (RCDR)/Battle Management Equipment (BME) Operator Training**

a. **Purpose**. To refine the TACCEO's skills required for designation as a Recorder and provide a means for the designated Recorder/CTAPS Operator to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Recorder/BME Operator qualification.

(b) The TACCEO must demonstrate proficiency in recording aircraft status information, maintaining Situational Awareness, utilization of proper report formats, communication procedures, and functioning as a member of the Current Operations Section.

(c) At least one live and one simulated Recorder/BME Operator performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Completion of the Combat Capable stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCEO has been absent from a TACCEO billet for 16 months or longer. Upon return to an appropriate billet the TACCEO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew is required for the evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

RCDR-300 **R** **TACC** **S**

Task. Perform as a Recorder/BME Operator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Maintain and update the status of Air Tasking Order (ATO) missions.

(2) Receive and forward reports (i.e., engagement reports, bomb damage assessments, JTARs, ASRs, etc.) using the established formats.

(3) Utilization of appropriate CTAPS/BME applications to update, modify, and add an ATO mission.

(4) Utilization of CTAPS/BME as a communications and word processing platform.

(5) Utilization of CTAPS/BME to produce required ATO related reports.

(6) Maintain appropriate logs.

(7) Assist the Coordinator as required in C2 management functions.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, CCS-TRBM-A017 CTAPS SUM.

Prerequisite(s)

(1) SYS-204.

(2) Academics: A-09, B-16, B-23, B-25, T-05, T-06, T-08, T-15, T-16, T-18, T-23, T-28, T-31, T-43, T-44.

External Syllabus Support. External C3 agencies.

RCDR-301 **R** **TACC** **L/S**

Task. Perform Recorder/BME Operator functions.

Condition(s). During an exercise, in the Air Defense Cell.

Standard(s). To demonstrate proficiency in the following areas:

(1) All requirements identified in RCDR-300.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25.

Prerequisite(s). RCDR-300.

External Syllabus Support. External C3 agencies.

RCDR-302 **R** **TACC** **L/S**

Task. Perform Recorder/BME Operator functions.

Condition(s). During an exercise, in the Close/Deep Battle Cell.

Standard(s). To demonstrate proficiency in the following areas:

(1) All requirements identified in RCDR-300.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25.

Prerequisite(s). RCDR-300.

External Syllabus Support. External C3 agencies.

QUAL-380 **R E** **TACC** **L/S**

Task. Qualify the TACCEO as a Recorder/BME Operator.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in RCDR-300.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series.

Prerequisite(s)

(1) RCDR-301, 302.

(2) Academics: All academic events identified in RCDR-300.

External Syllabus Support. None.

2. **TRACK DATA COORDINATOR TRAINING**

a. **Purpose**. To refine the TACCEO'S skills required for the Track Data Coordinator (TDC) qualification and to provide a means for a TACCEO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for TDC qualification.

(b) During each period, the TACCEO must demonstrate proficiency in track data management and maintenance of the recognized air picture and to function as a key member of the TACC crew supporting the Command Section.

(c) At least one live TDC performance event will be conducted with a full TACC crew during an exercise.

(2) **Prerequisite(s)**. Completion of the Combat Capable stage of training.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (6 Events)**

TDC-310 **R** **TACC** **L/S**

Task. Perform TDC functions.

Condition(s). In garrison or in the field, with a serial link (TADIL-B, NATO Link-1).

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter required DB entries.

(2) Activate, determine the status of, and trouble shoot each link as applicable.

(3) Perform order functions associated with the appropriate link.

(4) Perform track management functions.

(5) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links.

Prerequisite(s). Academics: A-16, B-15, T-14, T-15, T-19, T-20, T-21, T-26, T-28, T-33, T-48, T-52, T-53.

External Syllabus Support. External C3 agencies.

TDC-311 **R** **TACC** **L/S**

Task. Perform TDC functions.

Condition(s). While participating in a live netted data link (TADIL-A/Link 11).

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter required DB entries.

(2) Activate, determine the status of, and trouble shoot the link as applicable.

(3) Operate in the following modes:

- Radio Silent (RADSIL)
- Net Control Station (NCS)
- Picket

(4) Perform track management functions IAW ICO's direction.

(5) Perform track data coordination responsibilities over designated voice nets.

(6) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, CJCSM 6120.01A.

Prerequisite(s)

(1) TDC-310.

(2) Academics: T-47.

External Syllabus Support. JTAO data link platform(s).

TDC-312 **R** **TACC** **L/S**

Task. Perform TDC functions.

Condition(s). In a nodeless link environment (TADIL-J/Link-16).

Standard(s). Demonstrate proficiency in the following areas:

(1) Achieve network synchronization, enter TADIL-J/Link-16 net, determine the status of, and trouble shoot the link as applicable.

(2) Conduct passive operations utilizing passive synchronization.

(3) Perform TADIL-J/Link-16 operations in a multiple net/stacked net evolution.

(4) Establish TACC TADIL-J/Link-16 as Network Time Reference (NTR).

(5) Establish proper Interference Protection Feature (IPF), establish Normal (200 watts), Exercise Override (1000 watts), or Combat Override IPF as required.

(6) Extract correct data from Network Design Load (NDL) and enter into DB.

(7) Extract correct Network Participation Group (NPG) from the OPTASKLINK and NDL for entry into the DB.

(8) Enter appropriate data filters as listed in OPTASKLINK.

(9) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, Understanding Link-16, CJCSM 6120.01A.

Prerequisites

(1) TDC-311.

(2) Academics: T-49.

External Syllabus Support. TADIL-J/Link-16 capable external C3 agencies.

TDC-313 **R E** **TACC** **S/L**

Task. Perform as a TDC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Brief the link critical information during the TACC crew briefing.

(2) Ensure data link DB entries are entered and correct.

(3) Ensure TACC data link equipment is set up/keyed.

(4) Ensure required DL filters are entered and activated.

(5) Perform link trouble shooting and take corrective action as required.

(6) Perform/supervise manual crosstell procedures.

(7) Integrate Tactical Command System (CTT3) data into the TADIL display.

(8) Perform track management functions IAW the ICO's direction.

(9) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, Understanding Link-16, CJCSM 6120.01A.

Prerequisite(s)

(1) TDC-311.

(2) QUAL-280.

External Syllabus Support. External C3 agencies, TRE access.

TDC-314 **R E** **TACC** **L**

Task. Perform as a TDC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Brief the link critical information during the TACC crew briefing.

(2) Ensure data link DB entries are entered and correct.

(3) Ensure TACC data link equipment is set up/keyed.

(4) Ensure required DL filters are entered and activated.

(5) Perform link trouble shooting and take corrective action as required.

(6) Perform/supervise manual crosstell procedures.

(7) Integrate Tactical Command System (CTT3) data into the TADIL display.

(8) Perform track management functions IAW the ICO's direction.

(9) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, Understanding Link-16, CJCSM 6120.01A.

Prerequisite(s). TDC-313.

External Syllabus Support. External C3 agencies, TRE access.

QUAL-381 R E TACC L/S

Task. Qualify the TACCEO as a TDC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Brief the system configuration portion of the TACC crew brief.

(2) All requirements identified in TDC-310, 311, 313 and 314.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, Understanding Link-16, CJCSM 6120.01A.

Prerequisite(s). TDC-314.

External Syllabus Support. External C3 agencies.

3. COMBAT QUALIFIED DESIGNATIONS

a. **Purpose**. To designate the TACCEO as a Recorder/BME Operator and a Track Data Coordinator.

b. **General**

(1) **Administrative Notes**

(a) A TACCEO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCEO will be certified by a designated SAC and a recommendation for designation will be staffed to the MAW Battlestaff trainer.

(c) The TACCEO shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Combat Capable stage of training.

(b) Completion of designated MACCS Academic COI, as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (2 Events)**

DESG-390 **TACC**

Task. Designate the TACCEO as a Recorder/BME Operator (RCDR).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-380.

DESG-391 **TACC**

Task. Designate the TACCEO as a Track Data Coordinator (TDC).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-381.

235. FULL COMBAT QUALIFICATION TRAINING

1. CREW CHIEF TRAINING

a. **Purpose**. To refine the TACCEO'S skills required for the Crew Chief (CC) qualification and to provide a means for a TACCEO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Crew Chief qualification.

(b) The TACCEO must demonstrate proficiency in crew management functions and maintenance status of all equipment associated with TACC operations.

(c) At least one live Crew Chief performance event will be conducted with a full TACC crew during an exercise.

(2) **Prerequisite(s)**. Completion of the Combat Ready stage of training and QUAL-380.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for evaluated events.

d. **Academic Training**. Academic training will be conducted prior to, and concurrently with, required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

CC-400 **R** **TACC** **L**

Task. Perform CC functions.

Condition(s). During scheduled daily operations.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) System set up and initialization.

(2) Keying of all crypto.

(3) Appropriate DBs are loaded.

(4) Proper handling/procedures of classified materials.

(5) Provide instruction to crew members, as required.

(6) Maintenance of all CC/crew logs.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25.4, Local SOPs, TACC TMs.

Prerequisite(s)

(1) QUAL-280 and QUAL-380.

(2) Academics: T-12, T-20, T-21, T-34, T-39, T-41, T-42, T-46, T-54, T-56.

External Syllabus Support. None.

CC-401 **R** **TACC** **L**

Task. Prepare the TACC for embarkation and set-up.

Condition(s). Accomplished in garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Proper pack up of the TACC and all associated equipment.

(2) Staging and loading of equipment pallets.

(3) Off loading and placement of equipment pallets.

(4) Unpacking and set up of TACC equipment.

(5) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25.4, Local SOPs.

Prerequisite(s). QUAL-280 and QUAL-380.

External Syllabus Support. None.

CC-402 **R** **TACC** **S/L**

Task. Perform as a CC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Brief the Crew Chief portion of the TACC crew briefing.

(2) All requirements identified in CC-400.

(3) Manage the handling of reports generated within the COS.

(4) Ensure that all status/plotting boards are updated and maintained.

(5) Monitor current weather status.

(6) Monitor the control and distribution of classified material within the COS.

(7) Supervise the proper routing of information within the COS.

(8) Provide the interface between operations and maintenance for systems fault resolution.

(9) Ensure timely receipt/submission of required reports.

(10) Maintain CC log, crew rosters, collect and safeguard operational logs/information and T&R documentation at the conclusion of the crew watch.

(11) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25.4.

Prerequisite(s). CC-400.

External Syllabus Support. External C3 agencies.

QUAL-480 **R E** **TACC** **L**

Task. Qualify the TACCEO as a Crew Chief (CC).

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in CC-402.

Reference(s). MCWP 3-25.4.

Prerequisite(s). CC-401, 402.

External Syllabus Support. External C3 agencies.

2. **FULL COMBAT QUALIFICATION DESIGNATION**

a. **Purpose**. To designate the TACCEO as a CC.

b. **General**

(1) **Administrative Notes**

(a) An TACCEO will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCEO will be certified by a designated SAC and a recommendation for designation will be staffed to the MAW battlestaff trainer.

(c) The TACCEO shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Full Combat Qualification stage of training.

(b) Completion of the MACCS Academic COI (400 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (1 Event)**

DESG-490 **TACC**

Task. Designate the TACCEO as a Crew Chief (CC).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-480.

236. SPECIAL SKILL QUALIFICATION TRAINING

1. Air Defense Coordinator (ADC) Training

a. **Purpose**. To refine the TACCEO's skills required for designation as an Air Defense Coordinator and provide a means for the designated ADC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Air Defense Coordinator qualification.

(b) During designated events, the TACCEO must demonstrate proficiency in coordinating air defense assets within the MAGTF sector of operations, maintaining situational awareness, utilization of proper report formats, communication procedures, and functioning as a member of the Current Operations Section.

(c) At least one live and one simulated Air Defense Coordinator performance event will be conducted during an exercise.

(2) **Prerequisite**. QUAL-280, QUAL-380, and completion of the MACCS Academic COI (300 level).

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCEO has been absent from a TACCEO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

ADC-600 R TACC L

Task. Conduct air defense planning.

Condition(s). In garrison or in the field.

Standard(s). To demonstrate proficiency in the following areas:

(1) Prepare the air defense portion of the TACC crew briefing.

(2) Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, etc.) and assist in the development of the air defense plan for the MAGTF.

(3) Perform threat analysis for designated air defense priorities.

(4) Review and make recommendations for modification of airspace/air defense control measures, as required.

(5) Conduct TMD planning, as required.

(6) Participate in the planning of emissions/radiation control measures.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series.

Prerequisite(s)

(1) QUAL-280 and QUAL-380.

(2) Academics: Completion of the MACCS Academic COI (300 level), C-01, C-02, C-03, C-05, T-01, T-02, T-03, T-04, T-11, T-13, T-21, T-22, T-24, T-25, T-26, T-34, T-38, T-39, T-42, T-50, T-54, T-56.

External Syllabus Support. None.

ADC-601 **R** **TACC** **S/L**

Task. Perform as an Air Defense Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Conduct the air defense portion of the TACC crew briefing.

(2) Monitor, supervise and coordinate the control of aircraft and missiles for air defense by subordinate/adjacent C3 agencies.

(3) Coordinate the air defense operations of MACCS agencies with external agencies, as directed.

(4) Initiate orders to MACCS agencies for air defense and countermand subordinate agency actions, as required.

(5) Monitor the equipment status and operational posture of C3 agencies relative to air defense, as required.

(6) Coordinate the establishment and dissemination of air defense warning conditions/weapons control status/states of alert.

(7) Coordinate with the SAAWC/TAOC concerning the execution of air defense missions.

(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:

- Cancel missions and launches of preplanned missions in cases where requirements no longer exist.

- Divert preplanned missions and provide mission briefings.

- Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.

- Direct launches of unscheduled missions and provide mission briefings.

- Coordinate the scramble and reconstitution of on-call (strip alert) missions.

(9) Ensure that information is kept current and that the SAC is updated concerning the air defense situation.

(10) Coordinate:

- The modification of ADCMs, as required.

- Changes to sectors of responsibility, as required.

- Changes to established ROE, as required.

- Changes to EMCON/RADCON status, as required.

- The flow of air defense information/reports.

(11) Ensure that established cross-tell procedures are utilized by the air defense section, as required.

(12) Maintain appropriate logs.

(13) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Joint Pub 3-01.4 and 3-01.5.

Prerequisite(s)

(1) QUAL-280 and QUAL-380.

(2) Academics: Completion of the MACCS Academic COI (300 level), C-01, C-02, C-03, C-05, T-01, T-02, T-03, T-04, T-11, T-13, T-21, T-22, T-24, T-25, T-26, T-34, T-38, T-39, T-42, T-50, T-54, T-56.

External Syllabus Support. External C3 agencies.

ADC-602 **R** **TACC** **L/S**

Task. Perform as an Air Defense Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Demonstrate proficiency in all the requirements identified in ADC-601.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Joint Pub 3-01.4 and 3-01.5.

Prerequisite(s). ADC-600 and 601.

External Syllabus Support. External C3 agencies.

QUAL-680 **R E** **TACC** **L**

Task. Qualify the TACCEO as an Air Defense Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Demonstrate proficiency in all the requirements identified in ADC-600 and 601.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Joint Pub 3-01.4 and 3-01.5.

Prerequisite(s). ADC-602.

External Syllabus Support. External C3 agencies.

3. **Interface Control Officer (ICO) Training**

a. **Purpose**. To refine the TACCEO's skills required for designation as an Interface Control Officer and provide a means for the designated ICO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Interface Control Officer qualification.

(b) During designated events, the TACCEO must demonstrate proficiency in managing system interfaces, maintaining an accurate situational display, utilization of proper report formats, communication procedures, and functioning as a member of the Current Operations Section.

(2) **Prerequisite**. QUAL-381 and completion of the MACCS Academic COI (300 level).

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCEO has been absent from a TACCEO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

ICO-610 **R** **TACC** **L**

Task. Develop planning documents.

Condition(s). In garrison or in the field.

Standard(s). To demonstrate proficiency in the following areas:

(1) Develop an OPTASKLINK in accordance with joint standards.

(2) Assist in the development of the MAGTF surveillance plan/TACOPDAT in accordance with joint standards.

(3) Assist in the development of communications interface inputs/requirements, for inclusion in the OPORD (Annex K) or other applicable directives, to include:

- Radio net requirements.
- Multi-channel radio requirements.
- SATCOM requirements.
- Telephone (secure and non-secure) requirements.
- Data link interface requirements.

- BME interface requirements.

- LAN/WAN/Internet requirements (NIPRNET/SIPRNET), to include IP address matrices and router implementation plans.

(4) Coordinate input to the Intent-To-Use/CMS Callout messages and ensure the availability of all required cryptographic keying material.

(5) Assist in the development of redundant architectural designs for all interface requirements listed in (3) above.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, CJCSM 6120.01A, and Local SOPs.

Prerequisite(s)

(1) QUAL-381 and completion of the MACCS Academic COI(300 level).

(2) Academics: C-01, C-02, C-03, C-07, T-22, T-24, T-27, T-34, T-39, T-42, T-46, T-54.

(3) Formal Network management training and advanced data link training (e.g., MAJIC course at JMTS, Ft McPherson, GA)

External Syllabus Support. None.

ICO-611 **R** **TACC** **S/L**

Task. Perform as an Interface Control Officer.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Conduct the ICO portion of the TACC crew briefing.

(2) Supervise the TDC performing track management functions.

(3) Supervise the appropriate use and implementation of manual crosstell procedures.

(4) Recommend and implement changes to data link configurations and EMCON conditions, as required.

(5) Monitor the accuracy of datalink presentations.

(6) Coordinate with the Crew Chief and Maintenance Coordinator to ensure the quality of system interfaces and recommend solutions to identified deficiencies.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, CJCSM 6120.01A, Local SOPs.

Prerequisite(s)

(1) ICO-610.

(2) Academics: None.

External Syllabus Support. External C3 agencies.

ICO-612 **R** **TACC** **L/S**

Task. Perform as an Interface Control Officer.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in ICO-611.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, CJCSM 6120.01A, Local SOPs.

Prerequisite(s)

(1) ICO-611.

(2) Academics: None.

External Syllabus Support. External C3 agencies.

QUAL-681 **R E** **TACC** **L**

Task. Qualify the TACCEO as an Interface Control Officer.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all requirements identified in ICO-610 and 611.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, CJCSM 6120.01A, Local SOPs.

Prerequisite(s). ICO-612.

External Syllabus Support. External C3 agencies.

3. **Close Battle Coordinator (CBC) Training**

a. **Purpose**. To refine the TACCEO's skills required for the Close Battle Coordinator qualification and to provide a means for the TACCEO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for CBC qualification.

(b) The TACCEO must demonstrate proficiency in monitoring and assessing the effectiveness of close air and assault support missions in support of the MAGTF close battle and functioning as a member of the Current Operations Section.

(2) **Prerequisite**. QUAL-280 and 380.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew is required.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (5 Events)**

CBC-620 **R** **TACC** **L**

Task. Conduct Close Battle Cell planning.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Prepare the Close Battle Cell portion of the TACC crew briefing.

(2) Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the close/rear battle plans for the MAGTF.

(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.

(4) Assist in TMD planning, as required.

(5) Assist in the planning of emissions control measures, as required.

(6) Assist in the planning for MEDEVAC operations, as required.

(7) Coordinate with external agencies for information flow requirements.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, Local SOPs.

Prerequisite(s)

(1) QUAL-280 and QUAL-380.

(2) Academics: Completion of MACCS Academic COI(300 level), C-01, C-02, C-03, T-04, T-13, T-17, T-22, T-34, T-38, T-39. T-40, T-42, T-50, T-54 - T-57.

External Syllabus Support. None.

CBC-621 **R** **TACC** **S/L**

Task. Perform as a Close Battle Coordinator (CBC).

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct the Close Battle Cell portion of the TACC crew briefing.

(2) Acquire and maintain current information concerning the status and operations of air missions supporting the MAGTF close battle.

(3) Advise the SWO/SAC concerning employment of air assets supporting the MAGTF close battle.

(4) Coordinate the synchronization of air operations in support of the MAGTF close battle within the current-day ATO cycle.

(5) Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required.

(6) Coordinate with the DASC for receipt of immediate JTAR/ASR/ MEDEVAC information.

(7) Recommend courses of action to support JTARs/ASRs/MEDEVACs to the SAC/SWO based upon asset availability.

(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:

- Cancel missions and launches of preplanned missions in cases where requirements no longer exist.

- Divert preplanned missions and provide mission briefings.

- Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.

- Direct launches of unscheduled missions and provide mission briefings.

- Coordinate the scramble and reconstitution of on-call (strip alert) missions.

(9) Ensure that information is kept current and that the SAC is updated concerning the close battle situation.

(10) Coordinate the modification of ACMs/FSCMs, as required.

(11) Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action.

(12) Coordinate with the ground watch section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.

(13) Supervise the conduct of the Close Battle Cell.

(14) Monitor the equipment status and operational posture of C3 agencies relative to the close battle, as required.

(15) Maintain appropriate logs.

(16) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, and Local SOPs.

Prerequisite(s)

(1) QUAL-280 and QUAL-380.

(2) Academics: Completion of MACCS Academic COI(300 level), C-01, C-02, C-03, T-04, T-13, T-17, T-22, T-34, T-38, T-39. T-40, T-42, T-50, T-54 - T-57.

External Syllabus Support. External C3 agencies.

CBC-622 **R** **TACC** **L/S**

Task. Perform as a Close Battle Coordinator (CBC).

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in CBC-621.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, Local SOPs.

Prerequisite(s). CBC 620 and 621.

External Syllabus Support. External C3 agencies.

QUAL-682 **R E** **TACC** **L**

Task. Qualify the TACCEO as a CBC.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in the requirements identified in CBC-620 and 621.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, Local SOPs.

Prerequisite(s). CBC-622.

External Syllabus Support. External C3 agencies.

3. **SPECIAL SKILLS DESIGNATIONS**

a. **Purpose**. To designate the TACCEO as an Air Defense Coordinator (ADC), Interface Control Officer (ICO), and Close Battle Coordinator (CBC).

b. **General**

(1) **Administrative Notes**

(a) A TACCEO will be considered for designation upon completion of all events contained within the three phases of training: (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCEO will be certified by a designated SAC. A recommendation for designation will be staffed to the MAW battlestaff trainer.

(c) The TACCEO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) **Prerequisite(s)**. Completion of the Special Skills Qualification stage of training.

c. **Crew Requirements**. None.

d. **Academic Training**. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Designation Events (3 Events)**

DESG-690 **TACC**

Task. Designate the TACCEO as an Air Defense Coordinator (ADC).

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-680.

DESG-691 **TACC**

Task. Designate the TACCEO as an Interface Control Officer (ICO).

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-681.

DESG-692 **TACC**

Task. Designate the TACCEO as a Close Battle Coordinator (CBC).

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-682.

240. SPECIAL TRAINING REQUIREMENTS. None.

250. EXPENDABLE ORDNANCE REQUIREMENTS. None.

260. PROFICIENCY INTERVALS. Table 2-13, 2-14, 2-15, and 2-16 contain the proficiency intervals for the combat readiness, combat qualification, full-combat qualification and special skills training levels.

Table 2-13. TACCEO Proficiency Interval for the Combat Readiness Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	200	24	1			X		L
	201	24	1			X		L
	202	12	1			X		S
	203	24	1			X		L
	204	24	1			X		L
PLTR	210	24	1			X		L
	211	24	2			X		L/S
	212	24	2			X		S/L
	213	24	1			X		S/L
	214	24	2			X		S/L
QUAL	280	36	2			X	X	L/S
DESG	290	-	0					

Table 2-14. TACCEO Proficiency Interval for the Combat Qualification Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
RCDR	300	24	2			X		S
	301	24	2			X		L/S
	302	24	2			X		L/S
TDC	310	24	2			X		L/S
	311	24	2			X		L/S
	312	18	2			X		L/S
	313	24	2			X	X	S/L
	314	24	2			X	X	L
QUAL	380	36	2			X	X	L/S
	381	36	2			X	X	L/S
DESG	390	-	0					
	391	-	0					

Table 2-15. TACCEO Proficiency Interval for the Full-Combat Readiness Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
CC	400	24	1			X		L
	401	24	1			X		L
	402	24	1			X		S/L
QUAL	480	36	2			X	X	L
DESG	490	-	0					

Table 2-16. TACCEO Proficiency Interval for the Special Skills Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
ADC	600	24	0			X		L
	601	24	0			X		S/L
	602	24	0			X		L/S
ICO	610	12	0			X		L
	611	12	0			X		S/L
	612	12	0			X		L/S
CBC	620	24	0			X		L
	621	24	0			X		S/L
	622	24	0			X		L/S
QUAL	680	36	0			X	X	L
	681	36	0			X	X	L
	682	36	0			X	X	L
DESG	690	-	0					
	691	-	0					
	692	-	0					

270. <u>EVENT UPDATE CHAINING</u>. Table 2-17 and 2-18 contain the event update chaining for the TACCEO.

Table 2-17. TACCEO Combat Ready and Combat Qualified Training Event Update Chaining

EVENTS		EVENTS UPDATED
200		
201		
202		
203		
204		
210		
211		210
212		
213		

EVENTS		EVENTS UPDATED
214		213, 200
280		214, 213, 212, 211, 210, 200
290		
300		200
301		300, 200
302		300, 200
310		200
311		200
312		200
313		311, 310, 212, 200
314		313, 311, 310, 212, 200
380		302, 301, 300, 200
381		314, 313, 311, 310, 212, 200
390		
391		

Table 2-18. TACCEO Full-Combat and Special Skills Training Event Update Chaining

EVENTS		EVENTS UPDATED
400		212, 204, 203, 200
401		201
402		401, 400, 280, 214, 213, 212, 204, 203, 201, 200
480		402, 401, 400, 280, 214, 213, 212, 204, 203, 201, 200
490		
600		
601		600, 380, 302, 301, 300, 280, 214, 213, 212, 200
602		601, 600, 380, 302, 301, 300, 280, 214, 213, 212, 200
610		
611		610, 381, 314, 313, 311, 310, 212, 200
612		611, 610, 381, 314, 313, 311, 310, 212, 200
620		
621		620, 380, 302, 301, 300, 280, 214, 213, 212, 200
622		621, 620, 380, 302, 301, 300, 280, 214, 213, 212, 200
680		602, 601, 600, 380, 302, 301, 300, 280, 214, 213, 212, 200

EVENTS		EVENTS UPDATED
681		612, 611, 610, 381, 314, 313, 311, 310, 212, 200
682		622, 621, 620, 380, 302, 301, 300, 280, 214, 213, 212, 200
690		
691		
692		

TACTICAL AIR COMMAND CENTER OFFICER (TACCO) (MOS 75XX)

	PARAGRAPH	PAGE
INTRODUCTION	300	3-2
CORE COMPETENCIES/SKILLS.	301	3-2
SUMMARY/INDEX OF LIVE/SIMULATOR EVENTS.	302	3-7
UNIT TRAINING POLICIES.	303	3-12
TACCO TRAINING PROGRESSION PHILOSOPHY	304	3-14
TRAINING PROGRESSION MODEL FOR TACCO	305	3-14
PROGRAMS OF INSTRUCTION (POI) FOR TACCO	306	3-15
SPECIAL DESIGNATIONS.	307	3-15
GROUND/ACADEMIC TRAINING	310	3-18
TRAINING REFERENCES	311	3-21
LIVE/SIMULATOR EVENT TRAINING: TACCO.	320	3-22
LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS	330	3-23
COMPONENTS OF A T&R EVENT	331	3-24
COMBAT CAPABLE TRAINING	332	3-26
COMBAT READY TRAINING	333	3-26
COMBAT QUALIFICATION TRAINING	334	3-50
FULL-COMBAT QUALIFICATION TRAINING.	335	3-65
SPECIAL SKILLS QUALIFICATION TRAINING	336	3-71
SPECIAL TRAINING REQUIREMENTS	340	3-87
EXPENDABLE ORDNANCE REQUIREMENTS	350	3-87
PROFICIENCY INTERVALS	360	3-87
EVENT UPDATE CHAINING	370	3-90

300. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop UNIT warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective Training and Readiness (T&R) program is the first step in providing the MAGTF Commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, unit training managers can construct and execute an effective training plan which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training to satisfy the training requirements of Commanders at all levels in order to accomplish their war time mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and form the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the Systems Approach to Training used in T&R development and Marine Corps UTM principles.

3. The Marine Corps Combat Readiness Evaluation System (MCCRES) and the T&R program are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills which enable units to satisfy the requirements as outlined in their applicable volume of the MCCRES.

301. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills which support the Mission Essential Tasks (METL) derived from FMFM 5-1 and T/O mission statements, which are realistically expected to be assigned in combat.

2. **MISSION**. Function as the senior MAGTF air command and control agency and serve as the operational command post for the ACE commander and his battle staff.

3. **MISSION ESSENTIAL TASK LIST**

a. Maintain and disseminate information on the enemy and friendly situation, including the aviation and ground combat information essential to the air effort.

b. Plan and coordinate the employment of ACE communications electronics information networks and means.

c. Manage employment of all aircraft and surface-to-air weapons, and sensors within, or in support of, the MAGTF area of operations.

d. Coordinate air operations between the MACCS and air command and control agencies external to the MAGTF, to include other Service/host nation agencies.

e. Develop and promulgate Air Operations Plans and Orders, to include the MAGTF Air Tasking Order (ATO).

f. Analyze and evaluate the results of MAGTF air operations.

g. Disseminate air defense warning conditions and weapons control status to all major elements of the MAGTF.

h. Provide pertinent emission control information within the area of operations.

i. Coordinate information flow within the ACE battlestaff to facilitate efficient planning and execution of MAGTF aviation operations.

j. Plan and supervise airspace coordination.

k. Support MAGTF expeditionary operations.

l. Conduct combat operations in an NBC environment.

4. **TACC CORE CAPABILITY**

a. **Current Operations Section**. A core capable TACC Current Operations Section is capable of performing the functions of command and direction, interface coordination, close/deep battle coordination, air defense coordination, and intelligence processing and dissemination. A minimum of two core capable COS crews are required to sustain and perform those functions during contingency/combat operations, assuming that all crew positions are manned and supporting MOS's are at 80%. Sufficient TADIL, voice, tactical data networks, intelligence systems, or ATO subsystem capability exists to support operational requirements. If all crew positions are not filled, those critical functions performed by that position will be degraded. The notional Current Operations Section core capable crew of the baseline TACC consists of 60 personnel as depicted in table 3-1. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14F, Aviation T&R Manual, Volume I (ADMINISTRATIVE):

Table 3-1. Notional Current Operations Section

Current Ops Section	Ground Watch Section	Intel Watch Section	COS Command Cell	COS Close Battle Cell	COS Deep Battle Cell	COS Air Defense Cell	COS Airspace Control Cell	COS Analysis Cell	COS SAR Cell	ACE Watch Section	C2 Systems Watch Section	Interface Coord/TDC Cell
Current Ops Officer	Ground Watch Officer	Intel Watch Officer	Senior Watch Officer	Close Battle Coord	Deep Battle Coord	Air Defense Coord	Airspace Control Officer (2)	Close Battle Analyst (3)	SAR Coord Officer (2)	Comm Watch Officer	C2 Systems Watch Officer	Interface Coord Officer
Asst. Current Ops Officer	Fire Support Officer	Intel Watch Chief	Senior Air Coord	Fixed Wing Tasker (2/1)	Fixed Wing Tasker (2)	Recorder	Recorder/ Plotter	Deep Battle Analyst (3)	Recorder	C2 Maint Coord	Radio Watch NCO	Track Data Coord

Current Ops Section	Ground Watch Section	Intel Watch Section	COS Command Cell	COS Close Battle Cell	COS Deep Battle Cell	COS Air Defense Cell	COS Airspace Control Cell	COS Analysis Cell	COS SAR Cell	ACE Watch Section	C2 Systems Watch Section	Interface Coord/TDC Cell
Ops Chief	Engineer Officer	Intel Analyst	Crew Chief	Rotary Wing Tasker (2/3)	UAV Tasker	Plotter		Recorder /CTAPS Operator (2)		Logistics Watch Officer	Data/Comm Tech	
Ops Clerk	Ground Watch Chief	ELINT Analyst	Recorder	UAV Tasker	Recorder					NBC Watch Officer	Wireman	
	TCO Operator			Recorder (2)	Plotter					Force Protection Watch Officer	Radio Operator	
	AFATDS Operator			Plotter (2)						ALD/ORD Watch Officer		

b. **Future Operations Section**. A core capable TACC Future Operations Section plans for and allocates available air assets by promulgating an ATO and other related planning documents within a theater-delineated timeline. One core capable FOS crew is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed by that position will be degraded. The notional Future Operations Section core capable crew of the baseline TACC consists of 44 personnel as depicted in table 3-2. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14F, Aviation T&R Manual, Volume I (ADMINISTRATIVE):

Table 3-2. Notional Future Operations Section

Ops Admin Section	Ground Watch Section	Orders Development Section	ATO Development Section	Intelligence Watch Section
Future Operations Officer	Ground Watch Officer (2)	Orders Development Officer	ATO Development Officer	Intel Watch Officer (2)
Asst. Future Operations Officer	Ground Watch Clerk (2)	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst (2)
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner (2)	
			Airspace Control Measures Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

c. **Future Plans Section**. A core capable TACC Future Plans Section is responsible to the ACE G-3 for aviation planning in support of the next MEF mission change. One core capable future plans section is required to sustain and perform contingency/combat operations. While not structured for two crews, the planning, decision, and execution (PD&E) timeline may require the shifting of personnel to meet critical events during the day. If all crew positions are not filled, critical functions performed by that position will be degraded. The notional future plans section core capable crew of the baseline TACC consists of 44 personnel as depicted in table 3-3. This baseline organization is scaleable to meet operational requirements. Responsibility for training crewmembers is delineated in MCO P3500.14F, Aviation T&R Manual, Volume I (ADMINISTRATIVE):

Table 3-3. Notional Future Plans Section

Ops Admin Section	Ground Watch Section	Orders Development Section	ATO Development Section	Intelligence Watch Section
Future Operations Officer	Ground Watch Officer	Orders Development Officer	ATO Development Officer	Intel Watch Officer
Asst. Future Operations Officer	Ground Watch Clerk	Strike Plans Officer (3)	ATO Planning Officer	Intel Analyst
Operations Chief		Support Plans Officer (3)	Asst. ATO Planning Officer	
Operations Clerk (2)		Force Protection Officer	Strike Planner (3)	
		C2 Plans Officer	EW Planner	
		Operations Clerk (2)	Support Planner (4)	
			UAV Planner	
			Air Defense Planner	
			Air Support Planner	
			ATO Production Officer	
			Asst. ATO Production Officer	
			SPINS/ACP/ADP Production Officer	
			ATO Production Chief	
			ATO Production Clerk (6)	

d. **Billet-Syllabus Qualification Matrix**. Table 3-4, 3-5, and 3-6 contain a billet-syllabus qualification matrix for the current and future operations sections and the current plans section.

Table 3-4. TACC CURRENT OPERATIONS SECTION BILLET-SYLLABUS QUALIFICATION MATRIX

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
CURRENT OPERATIONS WATCH SECTION	Senior Watch Officer (SWO)	Senior Watch Officer (**SWO**)
	Senior Air Coordinator (SAC)	Senior Air Coordinator (**SAC**)
	Crew Chief (CC)	TACC Crew Chief (**TACC-CC**)
	Recorder	Recorder (**RCDR**)

CURRENT OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
DEEP BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (**ABT**)
	Deep Battle Coordinator	Deep Battle Coordinator (**DBC**)
	UAV Tasker	Air Battle Tasker (**ABT**)
	Fixed Wing Recorder	Recorder (**RCDR**)
	Fixed Wing Plotter	Plotter (**PLTR**)
CLOSE BATTLE CELL	Fixed Wing Tasker	Air Battle Tasker (**ABT**)
	Rotary Wing Tasker	Air Battle Tasker (**ABT**)
	UAV Tasker	Air Battle Tasker (**ABT**)
	Air Support Rep/Close Battle Coordinator	Close Battle Coordinator (**CBC**)
	Fixed Wing Recorder	Recorder (**RCDR**)
	Fixed Wing Plotter	Plotter (**PLTR**)
	Rotary Wing Recorder	Recorder (**RCDR**)
	Rotary Wing Plotter	Plotter (**PLTR**)
AIR DEFENSE COORDINATION CELL	Air Defense Coordinator (ADC)	Air Defense Coordinator (**ADC**)
	Air Defense Recorder	Recorder (**RCDR**)
	Air Defense Plotter	Plotter (**PLTR**)
AIRSPACE CONTROL CELL	Airspace Control Officer (ACO)	Airspace Control Officer (ACO)
	Airspace Plotter/Recorder	Plotter (**PLTR**) Recorder (**RCDR**)
INTERFACE CONTROL/ TRACK DATA CELL	Interface Control Officer (ICO)	Interface Control Officer (**ICO**)
	Track Data Coordinator (TDC)	Track Data Coordinator (**TDC**)
BATTLE DAMAGE ASSESSMENT CELL	Close Battle Analyst	Close Battle Analyst (**CBA**)
	Deep Battle Analyst	Deep Battle Analyst (**DBA**)
	Recorder/CAFMS Oper	Recorder (**RCDR**)
SAR COORDINATION CELL	SRCC Officer	Search and Rescue Coordinator **(SRC)**
	SRCC Recorder	Recorder (**RCDR**)

Table 3-5. TACC FUTURE OPERATIONS SECTION BILLET-SYLLABUS QUALIFICATION MATRIX

FUTURE OPERATIONS SECTION	BILLET	T&R SYLLABUS QUAL
ATO DEVELOPMENT SECTION	ATO Development Officer (ATODO)	ATO Development Officer (**ATODO**)

ATO PLANNING CELL	ATO Planning Officer (ATOPLO)	ATO Planning Officer (**ATOPLO**)
	Strike Planner	ATO MSN Planner (**ATOMP**)
	EW Planner	ATO MSN Planner (**ATOMP**)
	Support Planner	ATO MSN Planner (**ATOMP**)
	UAV Planner	ATO MSN Planner (**ATOMP**)
	Airspace Control Measures Planner	ATO/ACO Planner (**AAP**)
	Air Defense Planner	ATO/ACO Planner (**AAP**)
	Air Support Planner	ATO/ACO Planner (**AAP**)

ATO PRODUCTION CELL	ATO Production Officer (ATOPRO)	ATO Production Officer (**ATOPRO**)
	SPINS/ACP/ADP Production Officer	N/A
	ATO Production Chief	N/A
	ATO Production Clerk	N/A

ORDERS DEVELOPMENT SECTION	Orders Development Officer	Orders Development Officer (**ORDO**)
	Strike Plans Officer	Orders Development Planner (**ORDP**)
	Support Plans Officer	Orders Development Planner (**ORDP**)
	C2 Plans Officer	AVN C2 Planner (**AC2P**)

Table 3-6. TACC FUTURE PLANS SECTION BILLET-SYLLABUS QUALIFICATION MATRIX

FUTURE PLANS SECTION	BILLET	T&R SYLLABUS QUAL
	Future Plans Officer	Future Plans Officer (**FPNO**)
	Sr Planner	N/A
	Airspace/Air Defense Planner	N/A
	Assault Support Planner	N/A
	Strike Support Planner	N/A
	Aviation Support Planner	N/A

302. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. COMBAT CAPABLE TRAINING. The Combat Capable phase of training (100 level) will be accomplished by the Wing battlestaff trainer and is comprised of academic preparation for serving in the Tactical Air Command Center. The 100 level syllabus is made up of selected MACCS generic academic events that will

enhance the pilot's knowledge of the Marine Air Command and Control System (MACCS) and Marine Aviation operations in a joint environment.

2. **COMBAT READY TRAINING**. Table 3-7 contains a listing of the combat readiness training events and associated page numbers.

Table 3-7. Combat Readiness Training List

EVENT	TASK	LIST
SYS-200	OPERATE COMM EQUIPMENT	3-26
SYS-201	SET UP TACC FOR OPERATIONS	3-27
SYS-202	CONDUCT TACC OPS; NBC	3-27
SYS-203	SET UP TCO/MSBL FOR OPS	3-27
SYS-204	SET UP BME FOR OPS	3-28
SYS-205	CTAPS/TBMCS INTRO	3-28
SYS-206	MSCS INTRO	3-29
SYS-207	TCO INTRO	3-29
SYS-208	AFATDS INTRO	3-29
SYS-209	SET UP FOS FOR OPS	3-30
CBC-210	CONDUCT CLOSE BATTLE CELL PLANNING	3-31
CBC-211	PERFORM AS CBC; EXERCISE	3-32
CBC-212	PERFORM AS CBC; EXERCISE	3-33
DBC-220	CONDUCT DEEP BATTLE CELL PLANNING	3-35
DBC-221	PERFORM AS DBC; EXERCISE	3-36
DBC-222	PERFORM AS DBC; EXERCISE	3-37
ABT-230	PERFORM ABT PLANNING FUNCTIONS	3-39
ABT-231	PERFORM AS ABT; EXERCISE	3-39
ABT-232	PERFORM AS ABT; EXERCISE	3-40
SRC-240	CONDUCT CSAR/TRAP PLANNING	3-42
SRC-241	PERFORM AS SRC; EXERCISE	3-42
ORDP-250	PERFORM AS ORDP	3-45
ATOMP-260	CONDUCT ATO MISSION PLANNING	3-47
ATOMP-261	PERFORM AS ATOMP; EXERCISE	3-48
QUAL-280	QUALIFY THE TACCO AS CBC	3-34
QUAL-281	QUALIFY THE TACCO AS DBC	3-38
QUAL-282	QUALIFY THE TACCO AS ABT	3-40
QUAL-283	QUALIFY THE TACCO AS SRC	3-43
QUAL-284	QUALIFY THE TACCO AS ORDP	3-46
QUAL-285	QUALIFY THE TACCO AS ATOMP	3-48
DESG-290	DESIGNATE THE TACCO AS CBC	3-49
DESG-291	DESIGNATE THE TACCO AS DBC	3-49
DESG-292	DESIGNATE THE TACCO AS ABT	3-50
DESG-293	DESIGNATE THE TACCO AS SRC	3-50

EVENT	TASK	LIST
DESG-294	DESIGNATE THE TACCO AS ORDP	3-50
DESG-295	DESIGNATE THE TACCO AS ATOMP	3-50

3. COMBAT QUALIFICATION TRAINING. Table 3-8 contains a listing of the combat readiness training events and associated page numbers.

Table 3-8. Combat Qualification Training List

EVENT	TASK	PAGE
CBA-300	PERFORM TARGETING ANALYSIS AS CBA	3-51
CBA-301	MONITOR DASC/CLOSE BATTLE CELL ACTIVITY	3-52
DBA-310	PERFORM TARGETING ANALYSIS AS DBA	3-54
DBA-311	MONITOR DEEP BATTLE CELL ACTIVITY	3-55
ATOPRO-320	PERFORM ATO PRODUCTION FUNCTIONS	3-56
ATOPRO-321	PERFORM AS ATOPRO; EXERCISE	3-57
ORDO-330	PERFORM ORDO FUNCTIONS	3-59
ORDO-331	PERFORM AS ORDO; EXERCISE	3-60
ATOPLO-360	CONDUCT ATO PLANNING FUNCTIONS	3-61
ATOPLO-361	PERFORM AS ATOPLO; EXERCISE	3-63
QUAL-380	QUALIFY THE TACCO AS CBA	3-53
QUAL-381	QUALIFY THE TACCO AS DBA	3-55
QUAL-382	QUALIFY THE TACCO AS ATOPRO	3-58
QUAL-383	QUALIFY THE TACCO AS ORDO	3-60
QUAL-384	QUALIFY THE TACCO AS ATOPLO	3-63
DESG-390	DESIGNATE THE TACCO AS CBA	3-64
DESG-391	DESIGNATE THE TACCO AS DBA	3-64
DESG-392	DESIGNATE THE TACCO AS ATOPRO	3-64
DESG-393	DESIGNATE THE TACCO AS ORDO	3-65
DESG-394	DESIGNATE THE TACCO AS ATOPLO	3-65

4. FULL COMBAT QUALIFICATION TRAINING. Table 3-9 contains a listing of the full combat qualification training events and associated page numbers.

Table 3-9. Full Combat Qualification Training List

EVENT	TASK	PAGE
SWO-400	PERFORM AS SWO; EXERCISE	3-66
SWO-401	PERFORM AS SWO; EXERCISE	3-67
ATODO-410	PERFORM ATODO FUNCTIONS	3-69
ATODO-411	PERFORM AS ATODO; EXERCISE	3-69
QUAL-480	QUALIFY THE TACCO AS SWO	3-68
QUAL-481	QUALIFY THE TACCO AS ATODO	3-70

EVENT	TASK	PAGE
DESG-490	DESIGNATE THE TACCO AS SWO	3-71
DESG-491	DESIGNATE THE TACCO AS ATODO	3-72

5. INSTRUCTOR QUALIFICATION TRAINING. None.

6. SPECIAL SKILLS TRAINING AND DESIGNATION. Table 3-10 contains a listing of the special skills training and designations events and associated page numbers.

Table 3-10. Special Skills Training and Designations

EVENT	TASK	PAGE
ADC-600	CONDUCT AIR DEFENSE PLANNING	3-72
ADC-601	PERFORM AS ADC; EXERCISE	3-73
ADC-602	PERFORM AS ADC; EXERCISE	3-75
AAP-610	CONDUCT AIRSPACE/CONTROL MEASURES PLNG	3-76
AAP-611	CONDUCT AIR DEFENSE PLANNING FUNCTIONS	3-77
AAP-612	CONDUCT AIR SUPPORT PLANNING FUNCTIONS	3-78
COPS-620	PERFORM AS COPS OFFICER; EXERCISE	3-79
FOPS-630	SUPERVISE FUTURE OPS ACTIVITIES	3-81
FPNO-640	SUPERVISE FUTURE PLANS ACTIVITIES	3-84
QUAL-680	QUALIFY THE TACCO AS ADC	3-75
QUAL-681	QUALIFY THE TACCO AS AAP	3-78
QUAL-682	QUALIFY THE TACCO AS COPS OFFICER	3-80
QUAL-683	QUALIFY THE TACCO AS FOPS OFFICER	3-83
QUAL-684	QUALIFY THE TACCO AS FPNO	3-85
DESG-690	DESIGNATE THE TACCO AS ADC	3-86
DESG-691	DESIGNATE THE TACCO AS AAP	3-86
DESG-692	DESIGNATE THE TACCO AS COPS OFFICER	3-86
DESG-693	DESIGNATE THE TACCO AS FOPS OFFICER	3-86
DESG-694	DESIGNATE THE TACCO AS FPNO	3-87

7. OPERATOR CORE SKILLS. Core skills are depicted in the following matrix (table 3-11) and directly support the METL for each Unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 3-11. Core Skills

METL	SYS	CBC	DBC	ABT	SRC	ORDP	ATOMP	CBA	DBA
A	200 203 204 205 206 207 208	211 212	221 222	230 231 232	240 241			300 301	310 311
B	200 201 203 204 206 209	210 211 212	220 221 222			250	260 261		
C	200 205 206	210 211 212	220 221 222		240 241				
D	200 205 206	210 211 212	220 221 222		240 241	250	260 261	300 301	310 311
E	205 207					250	260 261		
F	205 206 207	211 212	221 222	230 231 232	240 241			300 301	310 311
G	200 205	211 212	221 222	230 231 232	240 241				
H	200	211 212	221 222		240 241				
I	201 205 209	210 211 212	220 221 222					300 301	310 311
J	200 205 206 208	210 211 212	220 221 222			250	260 261		
K	201 203 204 207 208				240 241	250	260 261	300 301	310 311
L	202								

8. <u>OPERATOR CORE PLUS SKILLS/TASKS</u>. Core plus skills are depicted in the following matrix (table 3-12) and directly support the METL for each Unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 3-12. Core Plus Skills/Tasks

METL	ATOPRO	ORDO	ATOPLO	SWO	ATODO	ADC	AAP	COPS	FOPS	FPNO
A			360 361	400 401	410 411	601 602	610 611 612	620	630	640
B		330 331		400 401		600 601 602	610 611 612	620	630	640
C				400 401	410 411	601 602	610 611 612			
D	320 321	330 331	360 361	400 401	410 411	600 601 602	610 611 612	620	630	640
E	320 321	330 331	360 361		410 411		610 611 612		630	640
F				400 401		601 602		620	630	
G						601 602				
H						600 601 602	610 611 612			
I				400 401	410 411	600 601 602		620	630	
J		330 331	360 361	400 401	410 411	600 601 602	610 611 612	620	630	640
K		330 331	360 361				610 611 612	620	630	640
L										

303. UNIT TRAINING POLICIES

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Commanding Officers will ensure that this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation unit in combat lies at the heart of the T&R program. Unit readiness and individual readiness are directly related. Individual training and the mastery of individual core

skills serve as the building blocks for unit combat readiness. A Marine's ability to perform those critical skills required in combat is essential.

3. Commanders shall ensure that all tactical training is conducted to a MCCRES standard. The MCCRES, as outlined in MCO P3501.1, is the unit training standard, and all syllabus events shall be tailored to meet MCCRES requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors which all commanders must address include, but are not limited to:

a. **Efficiency**. Time and resources expended are measurements for training efficiency. Commanders must ensure that all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. **Individual Differences**. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. **Decentralization of Training**. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. Commanders shall provide personnel the opportunities to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit.

6. **Risk Management**. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. **MACCS Integrated System Training**. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated airspace command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEXs should focus on the establishment of necessary communications and data links between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Information Link capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

304. TACTICAL AIR COMMAND CENTER OFFICER TRAINING PROGRESSION PHILOSOPHY

1. The purpose of this syllabus is to develop and refine those skills required for the Tactical Air Command Center Officer (TACCO) to function as a Senior Watch Officer (SWO) and/or ATO/Orders Development Officers within a core capable TACC Current/Future Operations crew. The progression of the TACCO through the syllabus has been tailored towards that end. It is incumbent upon the squadron commander to ensure that each event is completed in accordance with each performance standard established for that event.

305. TACCO TRAINING PROGRESSION MODEL

1. The Training Progression Model for the TACCO is depicted in figure 3.1.

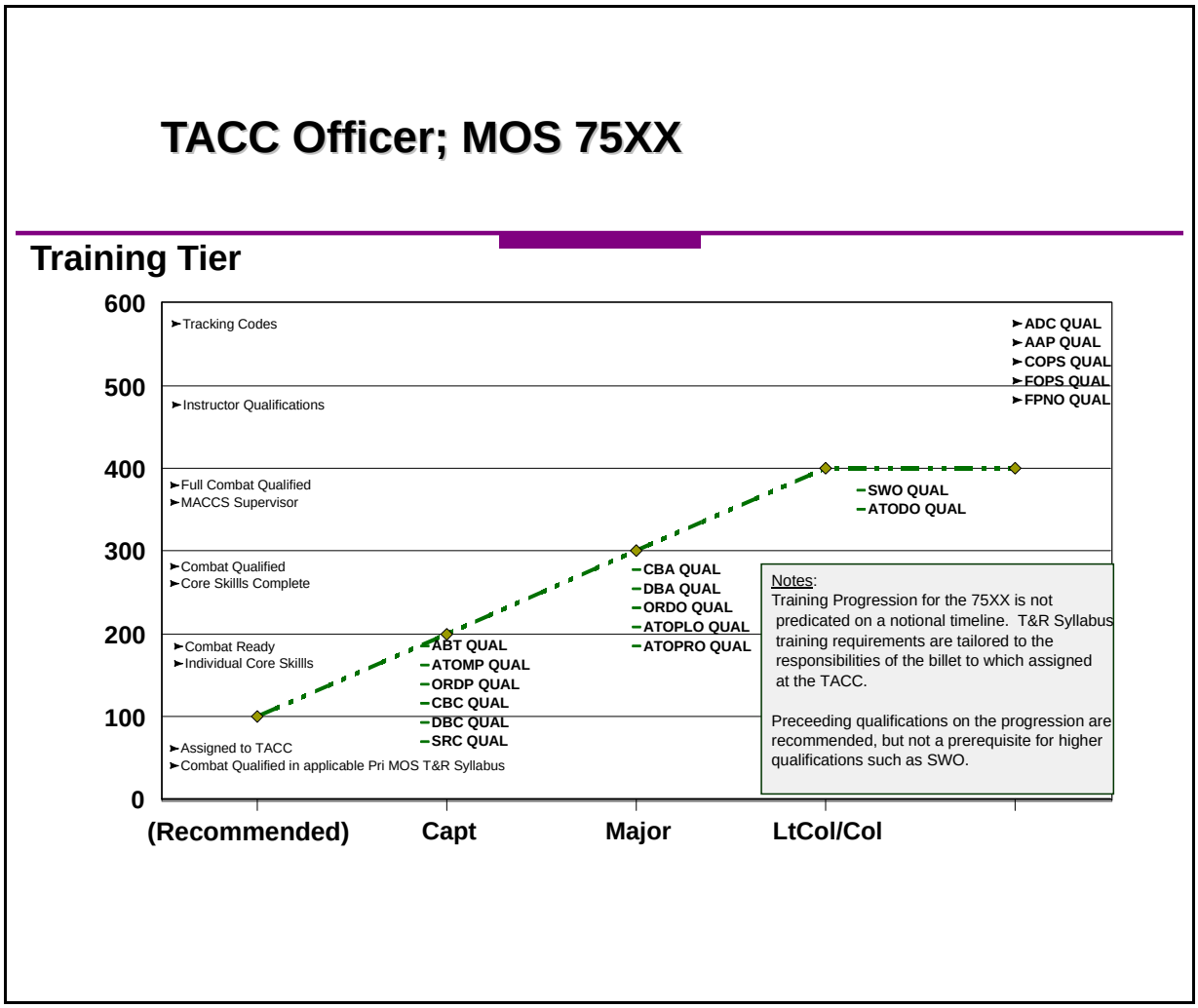


Figure 3.1 TACCO (MOS 75XX) TRAINING PROGRESSION MODEL

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those qualifications an individual reports to the unit with (accession qualifications) after completion of the MOS-qualifying school. The highest tier of the progression model will contain

those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable tier will in most cases be accomplished at the completion of initial MOS skills training. With successful completion of the combat capable tier, unit personnel are assigned basic MOS qualification and progress to the Combat Ready tier.

4. On the Combat Ready tier, qualifications that are normally made available to fairly inexperienced personnel will be delineated. This tier should take the individual who has completed initial MOS skills training and make him or her proficient in core competencies. With successful completion of the combat ready tier, unit personnel move to the Combat Qualification tier.

5. The Combat Qualification tier will be that portion of the model that produces combat leaders and fully qualified crewmembers. The personnel that are being trained in the combat qualification tier are those men/women a Commanding Officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Special Skill Qualification tier will contain special skills, and qualifications. These skills or qualifications are not prerequisite to combat qualification or the ability to function as combat leaders, but are those for which a certain number of trained individuals or crews must be maintained to accomplish special missions or tasks.

a. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the Commanding Officer with oversight of the unit training program.

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification of "combat ready" and "combat qualified" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

306. PROGRAMS OF INSTRUCTION (POI) FOR TACCO. There currently is no formal schools training provided for TACC personnel.

307. MISSION QUALIFICATIONS/DESIGNATIONS

1. **Tactical Air Command Center (TACC)**

a. **Current Operations Section**

(1) **Current Operations Officer (COPS) Qualification**. A Marine Officer is COPS qualified after having completed the required events of the appropriate T&R syllabus. The officer shall be certified and designated a

COPS by the MAW commander. The officer shall have a letter entered into his or her Aircrew/MACCS Performance Record stating the qualification.

(2) **Senior Watch Officer (SWO) Qualification**. A Marine Officer is SWO qualified after having completed the required events of the appropriate T&R syllabus. The officer shall be certified and designated a SWO by the MAW commander. The officer shall have a letter entered into his or her Aircrew/MACCS Performance Record stating the qualification.

(3) **Close Battle Coordinator (CBC) Qualification**. A Marine Officer (MOS 72XX/75XX) is CBC qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as a CBC by a designated SAC and designated CBC qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(4) **Deep Battle Coordinator (DBC) Qualification**. A Marine Officer (MOS 72XX/75XX) is DBC qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as a DBC by a designated SAC and designated DBC qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(5) **Air Defense Coordinator (ADC) Qualification**. A Marine Officer (MOS 72XX/75XX) is ADC qualified after having completed the required training events of the appropriate T&R syllabus. The MACCS Officer shall be certified as an ADC by a designated SAC and designated ADC qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her MACCS Performance Record stating the qualification.

(6) **Air Battle Analyst (ABA) Qualification**. A Marine Officer (MOS 72XX/75XX) is ABA qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as a ABA by a designated SAC and designated ABA qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(7) **Search and Rescue Coordinator (SRC) Officer Qualification**. A Marine Officer (MOS 72XX/75XX) is SRC qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as a SRC by a designated SAC and designated SRC qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

b. **Future Operations Section**

(1) **Future Operations Officer (FOPS) Qualification**. A Marine Officer is FOPS qualified after having completed the required events of the appropriate T&R syllabus. The officer shall be certified and designated a FOPS by the MAW commander. The officer shall have a letter entered into his or her Aircrew/MACCS Performance Record stating the qualification.

(2) **ATO Development Officer (ATODO) Qualification**. A Marine Officer (MOS 99XX/72XX/75XX) is ATODO qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an ATODO by the MAW G3 and designated ATODO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(3) **ATO Production Officer (ATOPRO) Qualification**. A Marine Officer (MOS 72XX/75XX) is ATOPRO qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an ATOPRO by the MAW G3 and designated ATOPRO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(4) **ATO Plans Officer (ATOPLO) Qualification**. A Marine Officer (MOS 72XX/75XX) is ATOPLO qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an ATOPLO by the MAW G3 and designated ATOPLO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(5) **Orders Development Officer (ORDO) Qualification**. A Marine Officer (MOS 99XX/72XX/75XX) is ORDO qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an ORDO by the MAW G3 and designated ORDO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(6) **Orders Development Planner (ORDP) Qualification**. A Marine Officer (MOS 99XX/72XX/75XX) is ORDP qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an ORDP by the MAW G3 and designated ORDP qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(7) **ATO/ACO Planner (AAP) Qualification**. A Marine Officer (MOS 72XX/75XX) is AAP qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an AAP by the MAW G3 and designated AAP qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

(8) **ATO Mission Planner (ATOMP) Qualification**. A Marine Officer (MOS 72XX/75XX) is ATOMP qualified after having completed the required training events of the appropriate T&R syllabus. The officer shall be certified as an ATOMP by the MAW G3 and designated ATOMP qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

c. **Future Plans Section**

(1) **Future Plans Officer (FPNO) Qualification**. A Marine Officer (MOS 72XX/75XX) is FPNO qualified after having completed the required training

events of the appropriate T&R syllabus. The officer shall be certified as an FPNO by the MAW G3 and designated FPNO qualified by the Wing battlestaff trainer. The officer shall have a letter in his or her Aircrew/MACCS Performance Record stating the qualification.

310. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders strongly encouraged to incorporate the lectures in table 3-13 into their training plan. Selected MACCS generic academics classes have been incorporated as the Combat Capable stage of training (100 level) for aviators (refer to paragraph 332). Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 3-13. Recommended T&R Lectures

Lecture Code	Lecture Title	Sponsor
	200 Level: Combat Ready Training	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES
	The Six Functions of Marine Aviation	
A-03	v Control of Aircraft & Missiles	MAWTS-1 ASP
A-04	v Offensive Air Support	MAWTS-1 ASP
A-05	v Assault Support	MAWTS-1 ASP
A-06	v Electronic Warfare	MAWTS-1 ASP
A-07	v Aerial Reconnaissance	MAWTS-1 ASP
A-08	v Anti-Air Warfare	MAWTS-1 ASP
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	MCCES
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	MAWTS-1 ASP
A-14	MACCS Communications	MAWTS-1 ASP
A-15	CTAPS Overview	MAWTS-1 ASP
A-16	Data Link Symbology	MCCES
A-17	Manual Crosstell procedures	MCCES
A-18	Encryption & Authentication Procedures	MCCES
A-19	COMSEC & Crypto handling	MCCES

	300 Level: Combat Qualified Training	
B-01	ASM/SSM Threat	MAWTS-1 ASP
B-02	Fixed Wing Threat	MAWTS-1 ASP
B-03	Rotary Wing Threat	MAWTS-1 ASP
B-04	REC Threat	MAWTS-1 ASP
B-05	Ground Threat	MAWTS-1 ASP

Lecture Code	Lecture Title	Sponsor
B-06	AOR Specific Threat & OP PLANS	Local MACG
	MACCS Agencies	
B-07	v TACC	MAWTS-1 ASP
B-08	v TAOC	MAWTS-1 ASP
B-09	v DASC	MAWTS-1 ASP
B-10	v ATC Detachment	MAWTS-1 ASP
B-11	v LAAD Bn	MAWTS-1 ASP
B-12	v Air Defense Detachment	MAWTS-1 ASP
B-13	v MWCS	MAWTS-1 ASP
B-14	AEW	MAWTS-1 ASP
B-15	MACCS/Joint Data link	MAWTS-1 ASP
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1 ASP
B-18	Airspace Planning/Management (Combat Airspace)	MAWTS-1 ASP
B-19	Tanker Management	MAWTS-1 ASP
B-20	Armed Reconnaissance	MAWTS-1 ASP
B-21	UAV Programs & Integration	MAWTS-1 WTI *
B-22	Link Architecture & Procedures	MAWTS-1 WTI *
B-23	CSAR/TRAP	MAWTS-1 ASP
B-24	NEO Execution	MAWTS-1 ASP
B-25	Execution Checklist	MAWTS-1 WTI *

	400 Level: Full Combat Qualified Training	
C-01	Integrated Combat Airspace Command & Control (ICAC[2])	MAWTS-1 ASP
C-02	Joint Air Operations	MAWTS-1 ASP
C-03	Theater Missile Defense	MAWTS-1 WTI *
C-04	MACCS in support of Special Operations	MAWTS-1 WTI *
C-05	ROE Development	MAWTS-1 WTI *
C-06	SIS Aircraft	MAWTS-1 ASP
C-07	JTAO Procedures	MCCES

(*) The lecture code is standardized throughout all MACCS related syllabi, and are used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may not be listed sequentially.

2. Academic training listed in table 3-14 is recommended for personnel assigned to the TACC.

Table 3-14. TACC ACADEMIC SYLLABUS

CODE	CLASS TITLE	SECTION	72XX	75XX	02XX
T-01	AAW DOCTRINE		X	X	
T-02	ADC RESPONSIBILITIES		X	X	
T-03	AIR DEFENSE SECTORS/ZONES		X	X	
T-04	AIRSPACE MANAGEMENT		X	X	
T-05	ASSAULT SUPPORT REQUEST (ASR)		X	X	
T-06	ATOs AND FRAGs		X	X	X
T-07	AUTHENTICATION PROCEDURES		X	X	
T-08	AVIATION ORDNANCE/SCL		X	X	
T-09	BRIEFING AND DEBRIEFING PROCEDURES	AS REQD			
T-10	C4I SYSTEMS		X	X	X
T-11	CAP MANAGEMENT		X	X	
T-12	CC RESPONSIBILITIES		X	X	
T-13	COMMAND AND CONTROL OF AMPHIBIOUS OPS		X	X	X
T-14	COMMUNICATIONS NETS		X	X	X
T-15	COORDINATION REQUIREMENTS		X	X	X
T-16	CREW COORDINATION		X	X	X
T-17	CSAR/TRAP		X	X	X
T-18	CTAPS APPLICATIONS		X	X	X
T-19	DATA LINK TROUBLESHOOTING		X		
T-20	DATA LINK OPS MESSAGES		X		
T-21	DATA LINK OPERATIONS		X		
T-22	EMCON PLANNING		X	X	X
T-23	EMERGENCY PROCEDURES		X	X	
T-24	EP CAPABILITIES		X	X	
T-25	IADS EMPLOYMENT		X	X	
T-26	IDENTIFICATION PROCEDURES		X	X	
T-27	INTERFACE COORDINATION		X		
T-28	INTERNAL/EXTERNAL INFORMATION FLOW		X	X	X
T-29	INTRODUCTION TO TACC SYSTEMS		X	X	X
T-30	INTRODUCTION TO ELECTRONIC WARFARE		X	X	X
T-31	JOINT TACTICAL AIRSTRIKE REQUEST (JTAR)		X	X	X
T-32	MANUAL CROSS-TELL		X	X	
T-33	MSCS OPERATIONS		X		
T-34	OPLANS & OPORDERS		X	X	X
T-35	PLOTTING SYMBOLOGY		X	X	X
T-36	RCC OPERATIONS		X	X	X
T-37	RULES OF ENGAGEMENT (ROE)		X	X	X
T-38	SEAD		X	X	X
T-39	SECURITY OF CLASSIFIED MATERIAL		X	X	X

CODE	CLASS TITLE	SECTION	72XX	75XX	02XX
T-40	SUPPORTING ARMS INTEGRATION		X	X	
T-41	T&R PROGRAM		X	X	X
T-42	TACC CREW BRIEF		X	X	X
T-43	TACC REPORTS/FORMATS		X	X	X
T-44	TACC CASUALTY PROCEDURES		X	X	X
T-46	TACC EMPLOYMENT & POWER REQUIREMENTS		X		
T-47	TADIL-A		X		
T-48	TADIL-B/NATO LINK 1		X		
T-49	TADIL-J		X		
T-50	TANKER MANAGEMENT		X	X	
T-51	TCO/MSBL OPERATIONS		X		X
T-52	TDC RESPONSIBILITIES		X		
T-53	TDS PLATFORMS		X		
T-54	THEATER AIR GROUND SYSTEM		X	X	X
T-55	UNMANNED AERIAL VEHICLES (UAVS)		X	X	X
T-56	WEATHER		X	X	X
T-57	AFATDS OPERATIONS		X	X	X

3. External academic courses of instruction available to complete the syllabus are listed below.

COURSE	ACTIVITY
Multi-TADIL Advanced Joint Interface Course (MAJIC)	FORCECOM
JTIDS Course	FORCECOM
JTIDS Network Design & System Management (JNDSM)	FORCECOM
Joint Aerospace Computer Applications Course	FORCECOM
TCO Operator’s Course	EWTG
Joint Aerospace Command and Control Course (JACAC)	FORCECOM
Military Airspace Management Course	FORCECOM
Joint Doctrine Air Campaign Course (JDACC)	AFCSC
JFACC Augmentation Staff Course	TACTRAGRUPAC
TAC Course	MAWTS-1
ACE Battlestaff Officer Course	MAWTS-1
Joint Search and Rescue Center Seminar (JSRCS)	Joint Services SERE Agency

311. TRAINING REFERENCES. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

TITLE

ACP-125 Allied Communication Publication

CJCSM 6120.01A	Joint Multi-TADIL Operational Procedures
CCS-TRTBM-A017	CTAPS Software User’s Manual (SUM) Lockheed Martin
DASC PCL	DASC Pocket Checklist
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 3-30	Communications
FMFM 6-18	Techniques and Procedures for Fire Support Coordination.
FMFRP 5-62	Multi-Service Procedures for the Theater Air-Ground System
JtDivO P3120.23	FSC SOP
Joint Pub 3-03	Doctrine for Joint Interdiction Operations
Joint Pub 3-09.3	JTTP for Close Air Support
Joint Pub 3-01.4	JTTP for Joint SEAD
Joint Pub 3-01.5	Doctrine for Joint Theater Missile Defense
Joint Pub 3-54	Joint Doctrine for OPSEC
MCM 3-1 Vol II	Threat Reference Manual
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
MCRP 3-16.1F	Targeting
MCRP 3-16.8B	MSP for the Joint Application of Firepower (J-FIRE)
MCRP 3-23A	Joint Air Attack Team Manual
MCRP 3-25A	MSP for AWACS in GBAD Operations
MCWP 3-2	Aviation Operations
MCWP 3-23.1	Close Air Support
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook
MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.12	MWCS Handbook
NWP 22	Air Control in Amphibious Operations
NWP 32	Anti-Air Warfare
OPNAVINST 3710	NATOPS MANUAL
TM-11240 Series	Motor Transport Technical Characteristics
TM 10149A-13&P/1	Operation Instructions - Tactical Combat Operations (TCO)
TSC-125-96-U	TCO Student Guide
12R4-MSCS-760-005	Operator’s Reference Manual (MSCS)
	TOPGUN Manual
	AGOS Manual
	Understanding Link 4A/11/16
	Understanding Data Links
	F/A-18 Tactics Manual (TACMAN)

320. LIVE/SIMULATOR EVENT TRAINING: TACCO (MOS 75XX)

1. **Combat Capable Training**

STAGE	EVENTS	PERCENT
COMBAT QUALIFIED SYLLABUS AT PARENT UNIT		60.00%

2. **Combat Ready Training**

STAGE	EVENTS	PERCENT
SYSTEMS TRAINING	10	2.00%
CLOSE BATTLE COORDINATOR TRAINING	4	2.50%
DEEP BATTLE COORDINATOR TRAINING	4	2.50%
ORDERS DEVELOPMENT PLANNER TRAINING	2	1.50%
AIR BATTLE TASKER TRAINING	4	2.50%
ATO MISSION PLANNER TRAINING	3	2.00%
SRCC OFFICER TRAINING	3	2.00%
COMBAT READY TOTALS:	30	15.00%

3. **Combat Qualification Training**

STAGE	**EVENTS**	**PERCENT**
CLOSE BATTLE ANALYST TRAINING	3	4.00%
DEEP BATTLE ANALYST TRAINING	3	4.00%
ATO PLANS OFFICER TRAINING	3	4.00%
ORDERS DEVELOPMENT OFFICER TRAINING	3	4.00%
ATO PRODUCTION OFFICER TRAINING	3	4.00%
COMBAT QUALIFICATION TOTALS:	15	20.00%

4. **Full Combat Qualification Training**

STAGE	EVENTS	PERCENT
SENIOR WATCH OFFICER TRAINING	3	2.5%
ATO DEVELOPMENT OFFICER TRAINING	3	2.5%
FULL COMBAT QUALIFICATION TOTALS:	6	5.00%

5. **Instructor Training**

STAGE	EVENTS	PERCENT
NOT APPLICABLE	0	0.00%

6. **Special Skills Training**

STAGE	EVENTS	PERCENT
AIR DEFENSE COORDINATOR TRAINING	4	0.00%
ATO/ACO PLANNER TRAINING	4	0.00%
CURRENT OPERATIONS OFFICER TRAINING	2	0.00%
FUTURE OPERATIONS OFFICER TRAINING	2	0.00%
FUTURE PLANS OFFICER TRAINING	2	0.00%
TACCO (MOS 75XX) T&R SYLLABUS TOTALS:	**65**	**100.00%**

330. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. **General**. The majority of the Tactical Air Command Center Officer syllabus is ground training which requires in-depth integration within the MACCS.

Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified Tactical Air Command Center Officer.

a. **Live Training**. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

b. **Simulator Training**. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted in the Tactical Air Command Center (TACC). Training not conducted in the TACC shall be replaced with live training where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

2. Minimum Performance Time for Syllabus "Write-Off"/Designations. Personnel may receive credit for successful completion of any syllabus requirement/performance standards (except qualifications) upon either a written, oral, or practical demonstration of proficiency, at the Commanding Officer's discretion. Completion of 80 percent of any syllabus event (except qualifications) may be "written-off" as complete at the discretion of the designated evaluator. Qualifications require a completed performance evaluation, and the designation signed by the Commanding Officer.

3. **Evaluation of Training**. Evaluation of those portions of the syllabus which are academic in nature will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per T&R Manual, Volume 1, and the standardized evaluation forms located in the appendix to this syllabus.

331. COMPONENTS OF A T&R EVENT.

1. **General**. An event contained within a T&R Manual is an Individual or collective training standard and contains seven or eight components, dependent on the tier in which they are contained:

1/	2/	3/	4/	5/	6/
SAM-XXX	**0.5**	**T,C,R, E**		**EQUIP**	**L/S (NS)**

TASK: The title of a unit of work which needs to be done in the performance of a Marine's duties. It is a clearly stated performance-oriented action requiring learned skills and knowledge, i.e. Engage a rotary winged aircraft.

CONDITION(S): The condition(s) set for the real-world or combat circumstances in which the tasks are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this should be stated.

STANDARD(S): The performance standard indicates the basis for judging the effectiveness of the performance. It consists of a carefully worded statement which identifies the proficiency level expected when the task is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

PERFORMANCE STEP(S): *Listed for 100 level T&R events only.* Performance steps are the actions or decisions required to fulfill proficiency established by the standard. The major performance steps which are required to perform the task to proficiency are listed in the order of performance. Minor steps are not listed.

PREREQUISITE(S): Provides a listing of academic training or other T&R events which must be completed prior to satisfying the task.

REFERENCE(S): Listing of doctrinal or reference publications which may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

ORDNANCE: A listing of Ordnance types and quantities required to satisfy the Task.

EXTERNAL SUPPORT REQUIREMENT(S): A listing or description of the external support requirements which may be required to satisfy completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES: 1/ Events are coded per Appendix B of T&R Manual Vol 1.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable Program of Instruction (Basic POI is understood).

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed.

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision Device; Where contained within **( )** denotes optional conditions.

332. COMBAT CAPABLE TRAINING

1. **COMBAT CAPABLE STAGE**. All Combat Capable training (100 series) will be accomplished by completing the Combat Qualification Syllabus of each Marine's primary MOS at the parent unit.

333. C0MBAT READY TRAINING

1. **System Training**

a. **Purpose**. To develop the skills required to maintain proficiency in operating Tactical Air Command Center equipment.

b. **General**. Contains the tactical and technical information necessary to maintain system proficiency.

c. **Prerequisite**. None.

d. **Live Training (10 Events)**

SYS-200 R TACC L

Task. Operate communications equipment.

Condition(s). Using appropriate codewords and communications brevity terms.

Standard(s). Properly utilize the available communications suite:

(1) Internal communications (ICS).

(2) Radio nets.

(3) Switchboard nets.

(4) Demonstrate mastery of proper authentication procedures.

(5) Utilization of proper radio transmission procedures in both secure and unsecured modes.

(6) Successfully complete 80% of the above listed standards.

Reference(s). TACC TM's, FMFM 3-30, Local SOPs.

Prerequisite(s). Academics: A-14, A-18, A-19, T-07, T-14, T-30.

External Syllabus Support. External agencies.

SYS-201 **R** **TACC** **L**

Task. Setup a TACC for operations.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s). Properly set up a Current/Future Operations Section.

(1) Unpack and set up work stations.

(2) Install LSDs/Plotting Boards.

(3) Create and install Status Boards.

(4) Erect tactical shelters, as required.

(5) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25.4, Local SOPs, and TACC TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-202 **R** **TACC** **S**

Task. Conduct TACC operations.

Condition(s). Operate in a simulated NBC environment using MOPP equipment.

Standard(s). Perform crew requirements while in MOPP level 4.

Reference(s). NBC Standard Operating Procedures.

Prerequisite(s). NBCD training and MOPP level exchange.

External Syllabus Support. None.

SYS-203 **R** **TACC** **L**

Task. Set up the TCO/MSBL system for operations.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Properly assemble the TCO/MSBL workstation.

(2) Properly install hard drives and apply power to the system.

(3) Properly power down the TCO/MSBL system.

(4) Connect TCO/MSBL to communications media.

(5) Successfully complete 80% of the above listed standards.

Reference(s). TSC-125-97-U, TCO Student Guide.

Prerequisite(s). Academics: T-10, T-29, T-51.

External Syllabus Support. None.

SYS-204 **R** **TACC** **L**

Task. Set up the Battle Management Equipment for operations.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Properly assemble the CTAPS/TBMCS workstation.

(2) Properly apply power to the system.

(3) Properly power down the CTAPS/TBMCS system.

(4) Connect CTAPS/TBMCS to communications media.

(5) Successfully complete 80% of the above listed standards.

Reference(s). CTAPS SUM, AGOS CBT.

Prerequisite(s). Academics: A-15, T-10, T-29.

External Syllabus Support. None.

SYS-205 **R** **TACC** **L**

Task. Become familiar with CTAPS/TBMCS.

Condition(s). In garrison or during an exercise.

Standard(s). Demonstrate fundamental knowledge in the following areas:

(1) Enter and manipulate data base information into CTAPS/TBMCS.

(2) Using CTAPS/TBMCS as a communications platform.

(3) Using CTAPS/TBMCS as a word processing platform.

Reference(s). CTAPS operators manual and TBMCS operators

manual.

Prerequisite(s). A-15, T-18.

External Syllabus Support. None.

SYS-206 **R** **TACC** **L**

Task. Become familiar with Multi-Source Correlation System (MSCS).

Condition(s). In garrison or during an exercise.

Standard(s). Demonstrate fundamental knowledge in the following areas:

(1) Set-up and save a user profile.

(2) Enter, modify, and delete airspace control measures (ACM) data into the database.

(3) Plot JTARs/ASRs, and required threat information, as appropriate.

Reference(s). 12R4-MSCS-760-005(MSCS Operator's Manual).

Prerequisite(s). Academics: T-33.

External Syllabus Support. None.

SYS-207 **R** **TACC** **L**

Task. Become familiar with TCO/MSBL.

Condition(s). In garrison or during an exercise.

Standard(s). Demonstrate fundamental knowledge in the following areas:

(1) Using TCO/MSBL to display chart, map, and track information.

(2) Using TCO/MSBL as a communications platform.

Reference(s). TM 10149A-13&P/1 (TCO).

Prerequisite(s). Academics: T-51.

External Syllabus Support. None.

SYS-208 **R** **TACC** **L**

Task. Become familiar with Advanced Field Artillery Tactical Data System (AFATDS).

Condition(s). In garrison or during an exercise.

Standard(s). Demonstrate fundamental knowledge in the following areas:

(1) Using AFATDS to display chart, map, and track information.

(2) Using AFATDS as a communications platform.

Reference(s). AFATDS operators manual.

Prerequisite(s). Academics: T-57.

External Syllabus Support. None.

SYS-209 **R** **TACC** **L**

Task. Setup a TACC Future Operations Section (FOS) for operations.

Condition(s). In garrison or during an exercise.

Standard(s). Properly set up a Future Operations Section.

(1) Determine optimum layout of FOS for information flow.

(2) Determine FOS systems and equipment requirements.

(3) Create and install status boards and maps.

(4) Conduct logistics and facility coordination with Current Operations Officer, MTACS personnel, communications personnel, and G-6, as required.

Reference(s). MCWP 3-25.4, Local SOPs, and TACC TM's.

Prerequisite(s). Academics: B-07, T-29, T-46.

External Syllabus Support. None.

2. **Close Battle Coordinator (CBC) Training**

a. **Purpose**. To refine the TACCO’s skills required for the Close Battle Coordinator qualification and to provide a means for the CBC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for CBC qualification.

(b) During each period, the TACCO must demonstrate proficiency in monitoring and assessing the effectiveness of close air support missions in support of the MAGTF close battle, and functioning as a member of the Current Operations Section.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Combat Ready in primary MOS.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

CBC-210 **R** **TACC** **L**

Task. Conduct Close Battle Cell planning.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Prepare the Close Battle Cell portion of the TACC crew briefing.

(2) Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the close/rear battle plans for the MAGTF.

(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.

(4) Assist in TMD planning, as required.

(5) Assist in the planning of emissions control measures, as required.

(6) Assist in the planning for MEDEVAC operations, as required.

(7) Coordinate with external agencies for information flow requirements.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, JP 3-01.5, Local SOPs.

Prerequisite(s)

(1) SYS-200, SYS-205, SYS-206, SYS-207, and SYS-208.

(2) Academics: A-04 - A-07, A-09, A-12 - A-14, B-07, B-09, B-10, B-16, B-17, B-18, B-21, B-23, B-24, B-25 C-01, C-02, C-03, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28, T-29, T-31, T-34, T-35, T-38 - T-44, T-50, T-51, T-54 - T-57.

External Syllabus Support. None.

CBC-211 **R** **TACC** **S/L**

Task. Perform as a Close Battle Coordinator (CBC).

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct the Close Battle Cell portion of the TACC crew briefing.

(2) Acquire and maintain current information concerning the status and operations of air missions supporting the MAGTF close battle.

(3) Advise the SWO/SAC concerning employment of air assets supporting the MAGTF close battle.

(4) Coordinate the synchronization of air operations in support of the MAGTF close battle within the current-day ATO cycle.

(5) Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required.

(6) Coordinate with the DASC for receipt of immediate JTAR/ASR/ MEDEVAC information.

(7) Recommend courses of action to support JTARs/ASRs/MEDEVACs to the SAC/SWO based upon asset availability.

(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:

- Cancel missions and launches of preplanned missions in cases where requirements no longer exist.

- Divert preplanned missions and provide mission briefings.

- Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.

- Direct launches of unscheduled missions and provide mission briefings.

- Coordinate the scramble and reconstitution of on-call (strip alert) missions.

(9) Ensure that information is kept current and that the SAC is updated concerning the close battle situation.

(10) Coordinate the modification of ACMs/FSCMs, as required.

(11) Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action.

(12) Coordinate with the ground watch section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.

(13) Supervise the conduct of the Close Battle Cell.

(14) Monitor the equipment status and operational posture of C3 agencies relative to the close battle, as required.

(15) Maintain appropriate logs.

(16) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, Local SOPs.

Prerequisite(s). CBC-210.

External Syllabus Support. External C3 agencies.

CBC-212 **R** **TACC** **L/S**

Task. Perform as a Close Battle Coordinator (CBC).

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in CBC-211.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, Local SOPs.

Prerequisite(s). CBC 211.

External Syllabus Support. External C3 agencies.

QUAL-280 **R E** **TACC** **L/S**

Task. Qualify the TACCO as a CBC.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in the requirements identified in CBC-210 and 211.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, MCRP 3-16.8B, Local SOPs.

Prerequisite(s). CBC-212.

External Syllabus Support. External C3 agencies.

3. **Deep Battle Coordinator (DBC) Training**

a. **Purpose**. To refine skills required for the Deep Battle Coordinator qualification and to provide a means for the DBC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for DBC qualification.

(b) The TACCO must demonstrate proficiency in monitoring and assessing the effectiveness of deep air support missions in support of the MAGTF deep battle, and functioning as a member of the Current Operations Section.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Combat Ready in primary MOS.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

DBC-220 **R** **TACC** **L**

Task. Conduct Deep Battle Cell planning.

Condition(s). In garrison or in the field.

Standard(s). Introduce the TACCO to planning considerations for the following areas:

(1) Prepare the Deep Battle Cell portion of the TACC crew briefing.

(2) Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the deep battle plans for the MAGTF.

(3) Review and make recommendations for modification of airspace/fire support coordination measures, as required.

(4) Assist in TMD planning, as required.

(5) Assist in the planning of emissions control measures, as required.

(6) Assist in the planning for CSAR/TRAP/MEDEVAC operations, as required.

(7) Coordinate with external agencies for information flow requirements.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Local SOPs.

Prerequisite(s)

(1) SYS-200, SYS-205, SYS-206, SYS-207, and SYS-208.

(2) Academics: A-04 - A-07, A-09, A-12, A-13, B-07, B-09, B-10, B-14, B-16 - B-18, B-21, B-23, B-24, B-25, C-01, C-02, C-06, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28 - T-31, T-34, T-35, T-38 - T-44, T-50, T-54 - T-56.

External Syllabus Support. None.

DBC-221 **R** **TACC** **S/L**

Task. Perform as a Deep Battle Coordinator (DBC).

Condition(s). During an exercise.

Standard(s). Perform duties as DBC in the following areas:

(1) Conduct the Deep Battle Cell portion of the TACC crew briefing.

(2) Acquire and maintain current information on the status and operations of air missions in support of the MAGTF deep battle.

(3) Advise the SWO/SAC on the employment of air assets in support of the MAGTF deep battle.

(4) Coordinate the synchronization of air operations in support of the MAGTF deep battle within the ATO cycle.

(5) Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required.

(6) Coordinate with the DASC, and other C3 agencies, for receipt of immediate JTAR/ASR/MEDEVAC information.

(7) Recommend courses of action to support JTAR/ASR/MEDEVACs to the SAC/SWO based upon asset availability.

(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:

- Cancel missions and launches of preplanned missions in cases where requirements no longer exist.

- Divert preplanned missions and provide mission briefings.

- Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.

- Direct launches of unscheduled missions and provide mission briefings.

- Coordinate the scramble and reconstitution of on-call (strip alert) missions.

(9) Ensure that information is kept current and that the SAC is updated concerning the deep battle situation.

(10) Coordinate the modification of ACMs/FSCMs, as required.

(11) Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action.

(12) Coordinate with the ground watch section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures.

(13) Monitor the equipment status and operational posture of C3 agencies relative to the close battle, as required.

(14) Review MAGTF targeting guidance and combat assessment data in order to provide ATO refresh input to planned events at least 4 hours prior to execution.

(15) Coordinate with ACI target intelligence section to receive updated targeting and BDA information.

(16) Receive in-flight reports for passage to the intelligence watch section for review and processing.

(17) Recommend, in conjunction with the ACI target intelligence section, to the SWO dynamic retasking of air assets in response to emergent targets in the deep battle area.

(18) Provide the SWO the impact on the deep battle of shifting assets during the current ATO.

(19) Recommend changes to, or identify preplanned ordnance configurations in response to target changes or weather conditions.

(20) Supervise the conduct of the Deep Battle Cell.

(21) Maintain appropriate logs.

(22) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). DBC-220.

External Syllabus Support. External C3 agencies.

DBC-222 **R** **TACC** **L/S**

Task. Perform as a Deep Battle Coordinator (DBC).

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in DBC-221.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). DBC-221.

External Syllabus Support. External C3 agencies.

QUAL-281 **R E** **TACC** **L/S**

Task. Qualify the TACCO as a DBC.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in the requirements identified in DBC-220 and 221.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). DBC-222.

External Syllabus Support. External C3 agencies.

4. **Air Battle Tasker (ABT) Training**

a. **Purpose**. To refine the TACCO'S skills required for the Air Battle Tasker (ABT) qualification and to provide a means for a TACCO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for ABT qualification.

(b) The ABT must demonstrate proficiency in utilizing Battle Management Equipment (BME) in the TACC Current Operations Section (COS) to supervise and direct daily aviation

operations.

(c) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) **Prerequisite(s)**. Combat Ready in primary MOS.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a SRC billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew is required.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

ABT-230 **R** **TACC** **L**

Task. Perform ABT planning functions.

Condition(s). In garrison or during an exercise.

Standard(s). Participate in CBC-210, DBC-220, ADC-600 planning events as appropriate.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN).

Prerequisite(s)

(1) SYS-200, SYS-205.

(2) Academics: A-04 - A-09, A-12, A-13, B-07 - B-10, B-14, B-16, B-18 - B-21, B-23 - B-25, C-01, C-02, C-06, T-01, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28 - T-31, T-34, T-35, T-38 - T-44, T-50, T-54 - T-56.

External Syllabus Support. None.

ABT-231 **R** **TACC** **S/L**

Task. Perform ABT functions.

Condition(s). During an exercise.

Standard(s). Perform functions in the following areas:

(1) Build a report in CAFMS X or FLEX.

(2) Execute MSN replanning, change TOS, TGT, Tanking information, Kill box and MSN info.

(3) Submit a MSN change to the ATO.

(4) Demonstrate proficiency with TK Talk & Applix.

(5) Submit other MSN info as required.

(6) Add, change, delete mission in CAFMS X or FLEX.

(7) Coordinate asset availability, mission changes, launch information, and other critical information as appropriate with the supporting aviation units.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN).

Prerequisite(s). ABT-230.

External Syllabus Support. External C3 agencies, aircraft.

ABT-232 **R** **TACC** **L/S**

Task. Perform ABT functions.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in ABT-231.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). ABT-231.

External Syllabus Support. External C3 agencies.

QUAL-282 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an ABT.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in ABT-230 and 231.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). ABT-232.

External Syllabus Support. External C3 agencies, fixed and rotary wing aircraft, sim or live.

5. **Search and Rescue Coordinator (SRC) Training**

a. **Purpose**. To refine the skills required for designation as a Search and Rescue Coordinator (SRC) and provide a means for the designated SRC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Search and Rescue Coordinator qualification.

(b) The Combat Capable TACCO must demonstrate proficiency in coordinating Search and Rescue (SAR) and/or Tactical Recovery of Aircraft and Personnel (TRAP) missions by completing the SRC training syllabus.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Combat Ready in primary MOS and attended the Joint Services SERE Agency Joint Search and Rescue Center Seminar (JSSA JSRCS).

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a SRC billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

SRC-240 **R** **TACC** **L**

Task. Conduct CSAR/TRAP planning.

Condition(s). In garrison or in the field.

Standard(s). Perform functions in the following areas:

(1) Prepare the SRCC portion of the TACC crew briefing.

(2) Assist in the development of the CSAR plan.

(3) Assist in the development of the TRAP plan.

(4) Assist in the planning for SAR communications.

(5) Assist in the development and preparation of execution checklists, as required.

(6) Coordinate with the Joint Search and Rescue Center (JSRC) concerning CSAR aircraft availability and requirement for TRAP assets that exceed ACE platform capabilities/ survivability for SAR operations.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s)

(1) SYS-200, SYS-205, SYS-206, and SYS-207.

(2) Joint Services SERE Agency Joint Search and Rescue Center Seminar (JSSA JSRCS).

(3) Academics: A-03 - A-07, A-09, A-12, A-13, B-05 - B-07, B-09, B-10, B-14, B-16 - B-18, B-21, B-23 - B-25, C-01, C-02, C-04, C-06, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28 - T-31, T-34, T-35, T-38 - T-44, T-50, T-54 - T-56.

External Syllabus Support. None.

SRC-241 **R** **TACC** **S/L**

Task. Perform as a Search and Rescue Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Conduct the SRCC portion of the TACC crew brief.

(2) Coordinate with the Joint Search and Rescue Center (JSRC) concerning CSAR aircraft availability and requirement for TRAP assets that exceed ACE platform capabilities/ survivability for SAR operations.

(3) Supervise the activation and monitoring of SAR communications and execution checklists, as required.

(4) Draft messages pertaining to MAGTF CSAR/TRAP operations (i.e., Search and Rescue Incident Report (SARIR) and SAR Situation Report (SAR SIT)).

(5) Notify the SWO of supporting aircraft requirements for CSAR/TRAP operations, the progress of CSAR/TRAP operations, and any situations that restrict or hinder CSAR/TRAP operations.

(6) Coordinate CSAR/TRAP efforts with units and/or agencies external to the ACE (i.e., JFACC Joint SAR Center (JSRC)).

(7) Coordinate CSAR/TRAP efforts with the DASC, provided such efforts transit that battlespace short of the FSCL.

(8) Ensure that CSAR/TRAP case folders are completed and maintained.

(9) Monitor and update location/availability of CSAR/TRAP assets.

(10) Provide feedback to future operations on changes required for subsequent ATOs concerning SAR/TRAP support (i.e., packaging, SPINS, checklists, etc.).

(11) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). SRC-240

External Syllabus Support. External C3 agencies.

QUAL-283 **R E** **TACC** **L/S**

Task. Qualify the TACCO as a Search and Rescue Coordinator (SRC).

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in SRC-240 and 241.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). SRC-241.

External Syllabus Support. External C3 agencies.

6. **Orders Development Planner (ORDP) Training**

a. **Purpose**. To refine the skills required for designation as an Orders Development Planner within the Future Operations Section and provide a means for the designated ORDP to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Orders Development Planner qualification.

(b) By syllabus completion, must demonstrate proficiency in developing ACE operations/frag orders and conducting current planning for aviation requirements/events that occur beyond the ATO currently being planned but short of the next frag order being developed.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite(s)**. Combat Ready in primary MOS.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a SRC billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (2 Events)**

ORDP-250	**R**	**TACC**	**L**

Task. Perform as an Orders Development Planner.

Condition(s). In garrison or in the field, as a member of the Orders Development Section of the FOS.

Standard(s). Perform functions in the following areas:

(1) Assist in the development of ACE operations orders/frag orders based upon ACE support plans prepared by the future plans section.

(2) Plan and coordinate aviation requirements to meet planned aviation needs beyond the ATO timeline, but short of the next major change to the major subordinate command mission being developed by future plans:

- Helicopter Operations (tasking, routes, escort).
- Projected strike packages.
- CSAR/TRAP operations.
- Suppression of Enemy Air Defense (SEAD) operations.
- Air command and control support requirements.
- Aviation support requirements.

(3) Coordinate with the Orders Development Officer in matters pertaining to aviation orders development and near-term plans and requirements.

(4) Prepare plans associated with reorganization, liaison, augmentation, and connectivity required to assume JFACC/JAOC responsibilities, as required.

(5) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, MCRW 3-16.8B, MCRP 3-23A.

Prerequisite(s)

(1) SYS-205.

(2) Academics: A-01 - A-09, A-12 - A-14, B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-05, T-01, T-04, T-06, T-08, T-13 - T-15, T-17, T-18, T-22, T-23, T-30, T-34, T-36 - T-38, T-40, T-54 - T-56.

External Syllabus Support. None.

QUAL-284 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an Orders Development Planner.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in ORDP-250.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, MCRW 3-16.8B, MCRP 3-23A.

Prerequisite(s). ORDP-250

External Syllabus Support. None.

7. **ATO Mission Planner (ATOMP)**

a. **Purpose**. To refine the skills required for the ATO mission planner qualification and to provide a means for an ATOMP to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for ATO MSN Planner qualification.

(b) Upon syllabus completion, the ATOMP must demonstrate proficiency in technical construction of the Air Tasking Order.

(c) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) **Prerequisite(s)**. Combat Ready in primary MOS.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a SRC billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

ATOMP-260 **R** **TACC** **L**

Task. Conduct ATO mission planning.

Condition(s). In garrison or in the field, as a member of the the ATO Planning Section of the FOS.

Standard(s). Execute the following mission planning tasks:

(1) Receive and review the MAGTF master attack plan.

(2) Prepare worksheets to be used in the creation of the ACE master attack plan to include:

- Sequencing and deconflicting allocated air assets against the MAGTF prioritized target list.

- Weaponeering and packaging air assets, as required, based on the threat, desired level of destruction and timeliness.

- Deconflicting simultaneous missions between other MAGTF lethal/non-lethal assets.

(3) Prepare sortie availability charts.

(4) Prepare aircraft flow sheets.

(5) Separate the MAGTF prioritized target list according to target sourcing (direct support targets/common sourced targets) for submission to the Joint Force Commander.

(6) Review and input any database changes to the aircraft laydown, standard configuration loads, and aircraft parametric data.

(7) Prepare the target planning worksheets and submit them to the ATO Plans Officer for forwarding to the ATO production cell for input into the applicable electronic planning system.

(8) Prepare the special instructions (SPINS), and any changes to the airspace control plan and air defense plan for incorporation into the ATO.

(9) Adjust force packaging, routing, weapons loadout, aircraft survivability equipment configurations, or other tactics, as a result of the combat assessment board analysis.

(10) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2,

MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s)

(1) SYS-205.

(2) Academics: A-01 - A-09, A-12 - A-14, B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-05, T-01, T-04, T-06, T-08, T-13 - T-15, T-17, T-18, T-22, T-23, T-30, T-34, T-36 - T-38, T-40, T-54 - T-56.

External Syllabus Support. None.

ATOMP-261 **R** **TACC** **L/S**

Task. Perform as an ATO Mission Planner.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in ATOMP-260.

(2) Successfully complete 80% of the above listed standards.

Reference(s). Same as ATOMP-260.

Prerequisite(s). ATOMP-260.

External Syllabus Support. External C3 agencies.

QUAL-285 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an ATOMP.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in ATOMP-260.

(2) Successfully complete 80% of the above listed standards.

Reference(s). Same as ATOMP-260.

Prerequisite(s). ATOMP-261.

External Syllabus Support. External C3 agencies.

8. **COMBAT READY DESIGNATIONS.**

a. **Purpose**. To designate the TACCO as Close Battle Coordinator (CBC), Deep Battle Coordinator (DBC), Air Battle Tasker (ABT), Search and Rescue Coordinator (SRC), Orders Development Planner (ORDP), and ATO Mission Planner (ATOMP).

b. **General**

(1) **Administrative Notes**

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training: (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC/MAW G3. A recommendation for designation will be staffed to the MAW Battlestaff trainer.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) **Prerequisite(s)**. Completion of the applicable Combat Ready stage of training.

c. **Crew Requirements**. None.

d. **Academic Training**. TACC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Designation Events (6 Events)**

DESG-290 **TACC**

Task. Designate the TACCO as an Close Battle Coordinator (CBC).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-280.

DESG-291 **TACC**

Task. Designate the TACCO as a Deep Battle Coordinator (DBC).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-281.

DESG-292 **TACC**

Task. Designate the TACCO as an Air Battle Tasker (ABT).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-282.

DESG-293 **TACC**

Task. Designate the TACCO as a Search and Rescue Coordinator (SRC).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-283.

DESG-294 **TACC**

Task. Designate the TACCO as an Orders Development Planner (ORDP).

Condition(s). None.

Reference(s). None.

Prerequisite(s). QUAL-284.

DESG-295 **TACC**

Task. Designation as an ATO Mission Planner (ATOMP).

Condition(s). None.

Reference(s). None.

Prerequisite(s). QUAL-285.

334. COMBAT QUALIFICATION TRAINING

1. Close Battle Analyst (CBA) Training

a. **Purpose**. To develop the TACCO'S skills required for the Close Battle

Analyst (CBA) qualification and to provide a means for a TACCO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for CBA qualification.

(b) The TACCO will monitor and assess the effectiveness of all aviation functions in support of the MAGTF's close battle.

(c) At least one live CBA performance event will be conducted with a full TACC crew during an exercise.

(2) **Prerequisite(s)**. Combat Qualified within primary MOS.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a SRC billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

CBA-300	R	TACC	L/S

Task. Perform targeting analysis as a CBA.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Review MAGTF targeting guidance and combat assessment data (e.g. BDA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution.

(2) Coordinate with the intelligence watch section concerning updated targeting and BDA information.

(3) Coordinate with the intelligence watch section concerning current/projected enemy capabilities, critical enemy vulnerabilities, and potential courses of action.

(4) Monitor MAGTF targeting guidance updates.

(5) Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required.

(6) Advise the SWO on the real-time employment of air assets to support the close battle.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s)

(1) SYS-200, SYS-205, SYS-207, and SYS-208.

(2) MAGTF Staff Training Program.

(3) Academics: A-01, A-04 - A-07, A-09, A-12, A-13, B-06, B-07, B-09, B-14, B-16 - B-18, B-21, B-23 - B-25, C-01, C-02, C-06, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28 - T-31, T-34, T-35, T-38 - T-40, T-42 - T-44, T-54 - T-57.

External Syllabus Support. External C3 agencies.

CBA-301 **R** **TACC** **L/S**

Task. Monitor DASC/Close Battle Cell activity.

Condition(s). During an exercise.

Standard(s). Demonstrate the ability to:

(1) Maintain current situational awareness concerning air missions in support of the MAGTF close battle.

(2) Analyze in-flight reports/BDA's and coordinate with the intelligence watch section for simultaneous review and processing.

(3) Assess the close battle and the requirement to shift ATO assets to support the ongoing battle.

(4) Coordinate with the Close Battle Coordinator, the Ground Watch Section, the MAGTF air officer, the Combat Service Support Element, and the Force Fires Coordination Center to maintain situational awareness.

(5) Coordinate with the Close Battle Cell concerning asset availability for JTARs/ASRs before jointly recommending a course of action to the SWO.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s). CBA-300.

External Syllabus Support. External C3 agencies.

QUAL-380 R E TACC L/S

Task. Qualify the TACCO as a CBA.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in CBA 300 and 301.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s). CBA-300 and 301.

External Syllabus Support. External C3 agencies.

2. **Deep Battle Analyst (CBA) Training**

a. **Purpose**. To develop the TACCO'S skills required for the Deep Battle Analyst (DBA) qualification and to provide a means for a TACCO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for DBA qualification.

(b) The TACCO will monitor and assess the effectiveness of all aviation functions in support of the MAGTF's deep battle.

(c) At least one live DBA performance event will be conducted with a full TACC crew during an exercise.

(2) **Prerequisite(s)**. Combat Qualified in primary MOS.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a SRC billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

DBA-310 **R** **TACC** **L/S**

Task. Perform targeting analysis as a DBA.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Review MAGTF targeting guidance and combat assessment data (e.g. BDA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution.

(2) Coordinate with the intelligence watch section concerning updated targeting and BDA information.

(3) Coordinate with the intelligence watch section concerning current/projected enemy capabilities, critical enemy vulnerabilities, and potential courses of action.

(4) Monitor MAGTF targeting guidance updates.

(5) Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required.

(6) Advise the SWO on the real-time employment of air assets to support the deep battle.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s)

(1) SYS-200, SYS-205, SYS-207, and SYS-208.

(2) MAGTF Staff Training Program.

(3) Academics: A-01, A-04 - A-07, A-09, A-12, A-13, B-06, B-07, B-09, B-14, B-16 - B-18, B-21, B-23 - B-25, C-01, C-02, C-06, T-04 - T-08, T-10, T-13 - T-18, T-22, T-23, T-28 - T-31, T-34, T-35, T-38 - T-40, T-42 - T-44, T-54 - T-57.

External Syllabus Support. External C3 agencies.

DBA-311 **R** **TACC** **L/S**

Task. Monitor Deep Battle Cell activity.

Condition(s). During an exercise.

Standard(s). Demonstrate the ability to:

(1) Maintain current situational awareness concerning air missions in support of the MAGTF deep battle.

(2) Analyze in-flight reports/BDA's and coordinate with the intelligence watch section for simultaneous review and processing.

(3) Assess the deep battle and the requirement to shift ATO assets to support the ongoing battle.

(4) Coordinate with the Deep Battle Coordinator, the Ground Watch Section, the MAGTF air officer, and the Force Fires Coordination Center to maintain situational awareness.

(5) Coordinate with the Deep Battle Cell concerning asset availability for JTARs/ASRs before jointly recommending a course of action to the SWO.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s). DBA-310.

External Syllabus Support. External C3 agencies.

QUAL-381 **R E** **TACC** **L**

Task. Qualify the TACCO as a DBA.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All standards listed in DBA 310 and 311.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-3-25.4, JP 3-09.3, JP 3-60, MCRP 3-16.1F.

Prerequisite(s). DBA-310 and 311.

External Syllabus Support. External C3 agencies.

3. **ATO Production Officer (ATOPPRO) Training**

a. **Purpose**. To refine the TACCO's skills required for designation as an ATO Production Officer and provide a means for the designated ATOPRO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for ATO Production Officer qualification.

(b) By syllabus completion, the ATOPR must demonstrate proficiency in supervising the ATO production cell in the technical construction and dissemination of the ATO, SPINS, and ACP/ADP inputs.

(c) At least one live and one simulated ATO Production Officer performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Combat Qualified in primary MOS.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew is required.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

ATOPRO-320 **R** **TACC** **L**

Task. Perform ATO production functions.

Condition(s). In garrison or in the field.

Standard(s). To supervise the ATO Production cell in the following areas:

(1) Receive and review the target planning worksheets from the ATO planning cell and input listed targets into the applicable electronic planning medium.

(2) Prepare ATO, SPINS, and ACP/ADP changes in accordance with the information, data, and guidance provided by the ATO planning cell.

(3) Print and deliver draft copies of the ATO for review by the ATO planning cell prior to release or forwarding.

(4) Maintain electronic connectivity with the JFACC for the submission of common sourced target nominations and the merging of the MAGTF direct support ATO into the joint ATO.

(5) Publish/transmit the ATO to higher, adjacent, and subordinate commands using available electronic means in accordance with the dissemination plan.

(6) Monitor the status of the theater directed electronic planning and execution medium associated equipment to identify maintenance requirements and equipment problems.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s)

(1) JFACC Augmentation Staff Course (JASC).

(2) SYS-205.

(3) Academics: A-01 - A-09, A-12 - A-14, B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-05, T-01, T-04, T-06, T-08, T-13 - T-15, T-17, T-18, T-22, T-23, T-30, T-34, T-36 - T-38, T-40, T-54 - T-56.

External Syllabus Support. None.

ATOPRO-321 **R** **TACC** **L/S**

Task. Perform as an ATO Production Officer.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) All standards listed in ATOPRO-320.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1,

AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). ATOPRO-320.

External Syllabus Support. None.

QUAL-382 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an ATO Production Officer.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in ATOPRO-320.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). ATOPRO-321.

External Syllabus Support. None.

4. **Orders Development Officer (ORDO) Training**

a. **Purpose**. To develop skills required for the Orders Development Officer qualification and to provide a means for a TACCO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for ORDO qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the development of ACE operations/frag orders and conducting current planning for aviation requirements/events that occur beyond the ATO currently being planned but short of the next frag order being developed.

(2) **Prerequisite**. Combat Qualified in primary MOS.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew is required.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

ORDO-330 **R** **TACC** **L**

Task. Perform as an Orders Development Officer.

Condition(s). In garrison or in the field.

Standard(s). To supervise the Orders Development Section in the following areas:

(1) Stand up of the ACE operational planning team.

(2) Development of ACE operations orders/frag orders based upon ACE support plans prepared by the future plans section.

(3) Plan and coordinate the following to meet planned aviation needs beyond the ATO timeline, but short of the next major change to the major subordinate command mission being developed by future plans:

- Helicopter Operations (tasking, routes, escort).
- Projected strike packages.
- CSAR/TRAP operations.
- Suppression of Enemy Air Defense (SEAD) operations.
- Air command and control support requirements.
- Aviation support requirements.

(4) Assist with those functions required to meet ATO timelines.

(5) Coordinate with the ATO Development Officer and the Future Operations Officer in matters pertaining to orders development and near-term plans and requirements.

(6) Prepare plans associated with reorganization, liaison, augmentation, and connectivity required to assume JFACC/JAOC responsibilities, as required.

(7) Successfully complete 80% of the above listed standards..

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s)

(1) MAGTF Staff Training Program.

(2) SYS-205.

(3) Academics: A-01 - A-09, A-12 - A-14, B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-05, T-01, T-04, T-06, T-08, T-13 - T-15, T-17, T-18, T-22, T-23, T-30, T-34, T-36 - T-38, T-40, T-54 - T-56.

External Syllabus Support. None.

ORDO-331 **R** **TACC** **L/S**

Task. Perform as an ORDO.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) All standards listed in ORDO-330.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). ORDO-330.

External Syllabus Support. None.

QUAL-383 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an ORDO.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in ORDO-330.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). ORDO-331.

External Syllabus Support. External C3 agencies.

5. **ATO Plans Officer (ATOPLO) Training**

a. **Purpose**. To develop the skills required for designation as an ATO Plans Officer (ATOPLO) and provide a means for the designated ATOPLO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for ATO Plans Officer qualification.

(b) At the completion of this syllabus, the TACCO must demonstrate proficiency in supervising the ATO planning cell in performing the weaponeering and force application functions in the development of the MAGTF master attack plan.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Combat Qualified in primary MOS.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

ATOPLO-360 **R** **TACC** **L**

Task. Conduct ATO planning.

Condition(s). In garrison or in the field.

Standard(s). To supervise the ATO Planning Section of the TACC in the following areas:

(1) Receive and review the MAGTF master attack plan.

(2) Prepare the ACE master attack plan to include:

- Sequencing and deconflicting apportioned air assets against the MAGTF prioritized target list.

- Weaponeering and packaging air assets, as required, based on the threat, desired level of destruction and timeliness.

- Deconflicting simultaneous missions by other MAGTF lethal/non-lethal assets.

(3) Prepare sortie availability charts.

(4) Prepare aircraft flow sheets.

(5) Separate the MAGTF prioritized target list according to target sourcing (direct support targets/common sourced targets) for submission to the joint force commander.

(6) Review and input any database changes to the aircraft laydown, standard configuration loads, and aircraft parametric data.

(7) Prepare the target planning worksheets and submit them to the ATO production cell for input into the applicable electronic planning system.

(8) Prepare the special instructions (SPINS), and any changes to the airspace control plan and air defense plan for incorporation into the ATO.

(9) Perform the final review of the ATO before release/forwarding.

(10) Ensure that sortie available aircraft flow and target planning worksheets, as applicable, are forwarded to the Marine liaison cell in the JAOC combat plans division.

(11) Make adjustments to force packaging, routing, weapons loadout, aircraft survivability equipment configurations, or other tactics, as a result of the combat assessment board analysis.

(12) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s)

(1) JAOSC.

(2) Academics: A-01 - A-09, A-12 - A-14, B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-05, T-01, T-04, T-06, T-08, T-13 -

T-15, T-17, T-18, T-22, T-23, T-30, T-34, T-36 - T-38, T-40, T-54 - T-56.

External Syllabus Support. None.

ATOPLO-361 **R** **TACC** **L/S**

Task. Perform as an ATO Plans Officer.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) All standards listed in ATOPLO-360.

(2) Successfully complete 80% of the above listed standards.

Reference(s). See ATOPLO-360.

Prerequisite(s). ATOPLO-360.

External Syllabus Support. External C3 agencies.

QUAL-384 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an ATO Plans Officer.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in ATOPLO-360.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). ATOPLO-361.

External Syllabus Support. External C3 agencies.

6. COMBAT QUALIFIED DESIGNATIONS

a. **Purpose**. To designate the TACCO as a Close Battle Analyst (CBA), Deep Battle Analyst (DBA), ATO Production Officer (ATOPRO), Orders Development Officer (ORDO), and ATO Plans Officer (ATOPLO).

b. **General**

(1) **Administrative Notes**

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training: (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC/MAW G3. A recommendation for designation will be staffed to the MAW Battlestaff trainer.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, will be filed in the individual's MACCS Performance Record.

(2) **Prerequisite**. Completion of the applicable Combat Qualification stage of training.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (5 Events)**

DESG-390 **TACC**

Task. Designate the TACCO as a Close Battle Analyst (CBA).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-380.

DESG-391 **TACC**

Task. Designate the TACCO as a Deep Battle Analyst (DBA).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-381.

DESG-392 **TACC**

Task. Designate the TACCO as an ATO Production Officer (ATOPRO).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-382.

DESG-393 **TACC**

Task. Designate the TACCO as an Orders Development Officer (ORDO).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-383.

DESG-394 **TACC**

Task. Designate the TACCO as an ATO Plans Officer (ATOPLO)

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-384.

335. FULL COMBAT QUALIFICATION TRAINING

1. Senior Watch Officer (SWO) Training

a. **Purpose**. To refine the skills required for the Senior Watch Officer qualification and to provide a means for a SWO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Senior Watch Officer Qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the current operations section to ensure that action is taken to optimize the employment of MAGTF aviation resources.

(2) **Prerequisite(s)**. Combat Qualified in primary MOS. MAWTS-1 Tactical Air Commander's (TAC) course recommended but not required.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 400 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

SWO-400 **R** **TACC** **S/L**

Task. Perform as a SWO.

Condition(s). During a exercise.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) Supervise the execution of the current ATO by:

- Ensuring that situation and status displays are current and accurate.

- Evaluating the capability of available assets to fulfill ATO tasking and recommending a course of action to the Current Operations Officer when there is a shortfall.

- Keeping the Current Operations Officer informed on unanticipated developments or problems that may impact planned operations.

- Recommending adjustments to the published ATO when required by the current situation.

- Issuing and documenting ATO adjustments approved by the Current Operations Officer.

(2) Demonstrate familiarity with all aspects of air operations, to include force beddown, sortie availability, airspace control measures, communications, rules of engagement, aircraft capabilities/limitations, and munitions capabilities.

(3) Effect coordination with senior watch officers of subordinate, adjacent, and senior air/ground agencies.

(4) Monitor reporting of events by agencies subordinate to the TACC.

(5) Adjudicate with the MAGTF/JFACC any immediate JTARs/ASRs that exceed the current planned allocation.

(6) Determine reporting responsibilities and establish procedures for preparing reports from Current Operations for the commander's situation report, commander's daily briefing, and as directed by the Current Operations Officer.

(7) Perform the functions of the Current Operations Officer, as required.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s)

(1) MAWTS-1 ACE TAC course recommended.

(2) SYS-200, 205, and 206.

(3) Academics: A-02 - A-09, A-12 - A-14, A-16, A-17, B-06 - B-21, B-23 - B-25, C-01 - C-06, T-01, T-03 - T-06, T-08, T-10 - T-18, T-23, T-25, T-28 - T-32, T-35 - T-38, T-40, T-42 - T-44, T-50, T-54 - T56.

External Syllabus Support. External C3 agencies.

SWO-401 **R** **TACC** **L/S**

Task. Perform as a SWO.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) All standards listed in SWO-400.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). SWO-400.

External Syllabus Support. External C3 agencies.

QUAL-480 **R E** **TACC** **L/S**

Task. Qualify the TACCO as a Senior Watch Officer.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in SWO-400

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s). SWO-401.

External Syllabus Support. External C3 agencies.

3. **ATO Development Officer (ATODO) Training**

a. **Purpose**. To refine the skills required for the ATO Development Officer qualification and to provide a means for the ATODO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for ATO Development Officer qualification.

(b) By syllabus completion, the ATODO must demonstrate proficiency in supervising the conduct of the ATO planning and ATO production cells within the Future Operations section.

(c) At least one live ATO Development Officer performance event will be conducted with a full TACC crew during an exercise.

(2) **Prerequisite(s)**. Combat Qualified in primary MOS and successful completion of JAOSC.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (3 Events)**

ATODO-410 **R** **TACC** **L**

Task. Perform as an ATO Development Officer.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) Production of a timely and executable ATO.

(2) Ensure aviation and intelligence databases required for ATO planning and production are current and accurate.

(3) Coordinate with the deep and close battle cells in current operations to receive feedback on published ATO.

(4) Coordinate with the SWO in current operations to ensure timely receipt of current battle information and monitor changes to the ATO being executed which could affect the ATO(s) under development.

(5) Maintain contact with the ACE augmentation cell in the joint air operations center (JAOC) combat plans division.

(6) Head the combat assessment board with BDA input from the ACE target intelligence officer and munitions effectiveness and strike profiles from the flying units.

(7) Provide results of combat assessment board to the MAGTF air officer and JAOC combat plans division.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

Prerequisite(s)

(1) Combat Qualified in primary MOS.

(2) JAOSC.

(3) Academics: A-01 - A-09, A-12 - A-14, B-06, B-16 - B-18, B-21, B-23 - B-25, C-01 - C-05, T-01, T-04, T-06, T-08, T-13 - T-15, T-17, T-18, T-22, T-23, T-30, T-34, T-36 - T-38, T-40, T-54 - T-56.

External Syllabus Support. None.

ATODO-411 **R** **TACC** **L/S**

Task. Perform as an ATO Development Officer.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) Provide input to the SWO pertaining to the development of the current ATO for incorporation into the current operations crew brief.

(2) All standards listed in ATODO-410.

(3) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

Prerequisite(s). ATODO-410.

External Syllabus Support. External C3 agencies.

QUAL-481 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an ATO Development Officer.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in ATODO-410 and 411.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

Prerequisite(s). ATODO-411.

External Syllabus Support. External C3 agencies.

4. **FULL COMBAT QUALIFICATION DESIGNATION.**

a. **Purpose**. To designate the TACCO as a Senior Watch Officer, a Future Plans Officer, and an ATO Development Officer.

b. **General**

(1) **Administrative Notes**

(a) A TACCO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(b) The MAW G3 will conduct a review of the TACCO's MPR and certify that the TACCO is qualified for designation in the applicable billet. A recommendation for designation will then

be forwarded to the MAW Battlestaff trainer for signature. The Senior Watch Officer designation will be forwarded to the MAW CG for signature.

(c) The TACCO designation letter, with any waivers, deferments or endorsements, shall be filed and maintained in their MACCS Performance Record.

(2) **Prerequisite(s)**. Completion of the applicable Full Combat Qualification stage of training.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (2 Events)**

DESG-490 **TACC**

Task. Designate the TACCO as an Senior Watch Officer (SW0).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-480.

DESG-491 **TACC**

Task. Designate the TACCO as an ATO Development Officer (ATODO).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-481.

336. SPECIAL SKILL QUALIFICATION TRAINING

1. Air Defense Coordinator (ADC) Training

a. **Purpose**. To refine the TACCO’s skills required for designation as an Air Defense Coordinator and provide a means for the designated ADC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Air Defense Coordinator qualification.

(b) During designated events, the TACCO must demonstrate proficiency in coordinating air defense assets within the MAGTF sector of operations, maintaining Situational Awareness, utilization of proper report formats, communication procedures, and functioning as a member of the Current Operations Section.

(c) At least one live and one simulated Air Defense Coordinator performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training may be conducted concurrently.

(2) **Prerequisite(s)**.

(1) Combat Qualified in primary MOS.

(2) Graduate of the Weapons and Tactics Instructor Course.

(3) Previous TACC experience within Current Operations.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

ADC-600 R TACC L

Task. Conduct air defense planning.

Condition(s). In garrison or in the field.

Standard(s). To demonstrate proficiency in the following areas:

(1) Prepare the air defense portion of the TACC crew briefing.

(2) Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, etc.) and assist in the development of the air defense plan for the MAGTF.

(3) Perform threat analysis for designated air defense priorities.

(4) Review and make recommendations for modification of airspace/air defense control measures, as required.

(5) Conduct TMD planning, as required.

(6) Participate in the planning of emissions/radiation control measures.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series.

Prerequisite(s)

(1) SYS-206.

(2) Academics: A-02, A-03, A-08, A-09, A-12 - A-14, A-16, A-17, B-01 - B-03, B-07, B-08, B-10 - B-12, B-14 - B-16, B-18, B-19, C-01 - C-03, C-05, T-01 - T-04, T-06 - T-11, T-13 - T-16, T-18, T-21 - T-26, T-28 - T-30, T-32 - T-35, T-37 - T-39, T-41 - T-44, T-50, T-54, T-56.

External Syllabus Support. None.

ADC-601 **R** **TACC** **S/L**

Task. Perform as an Air Defense Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Conduct the air defense portion of the TACC crew brief.

(2) Monitor, supervise and coordinate the control of aircraft and missiles for air defense by subordinate/adjacent C3 agencies.

(3) Coordinate the air defense operations of MACCS agencies with external agencies, as directed.

(4) Initiate orders to MACCS agencies for air defense and countermand subordinate agency actions, as required.

(5) Monitor the equipment status and operational posture of C3 agencies relative to air defense, as required.

(6) Coordinate the establishment and dissemination of air defense warning conditions/weapons control status/states of alert.

(7) Coordinate with the SAAWC/TAOC concerning the execution of air defense missions.

(8) Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to:

- Cancel missions and launches of preplanned missions in cases where requirements no longer exist.

- Divert preplanned missions and provide mission briefings.

- Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations.

- Direct launches of unscheduled missions and provide mission briefings.

- Coordinate the scramble and reconstitution of on-call (strip alert) missions.

(9) Ensure that information is kept current and that the SAC is updated concerning the air defense situation.

(10) Coordinate:

- The modification of ADCMs, as required.

- Changes to sectors of responsibility, as required.

- Changes to established ROE, as required.

- Changes to EMCON/RADCON status, as required.

- The flow of air defense information/reports.

(11) Ensure that established cross-tell procedures are utilized by the air defense section, as required.

(12) Maintain appropriate logs.

(13) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Joint Pub 3-01.4 and 3-01.5.

Prerequisite(s)

(1) SYS-206.

(2) Academics: A-02, A-03, A-08, A-09, A-12 - A-14, A-16, A-17, B-01 - B-03, B-07, B-08, B-10 - B-12, B-14 - B-16, B-18, B-19, C-01 - C-03, C-05, T-01 - T-04, T-06 - T-11, T-13 - T-16, T-18, T-21 - T-26, T-28 - T-30, T-32 - T-35, T-37 - T-39, T-41 - T-44, T-50, T-54, T-56.

External Syllabus Support. External C3 agencies.

ADC-602 **R** **TACC** **L/S**

Task. Perform as an Air Defense Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Demonstrate proficiency in all the requirements identified in ADC-601.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Joint Pub 3-01.4 and 3-01.5.

Prerequisite(s). ADC-600 and 601.

External Syllabus Support. External C3 agencies.

QUAL-680 **R E** **TACC** **L**

Task. Qualify the TACCO as an Air Defense Coordinator.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Demonstrate proficiency in all the requirements identified in ADC-600 and 601.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Joint Pub 3-01.4 and 3-01.5.

Prerequisite(s). ADC-602.

External Syllabus Support. External C3 agencies.

2. **Air Tasking Order(ATO)/Airspace Control Order(ACO) Planner (AAP) Training**

a. **Purpose**. To refine the TACCO's skills required for designation as an AAP and provide a means for the designated AAP to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for ATO/ACO Plannner qualification.

(b) The TACCO must demonstrate proficiency in conducting Future Operations planning for Air Defense, Airspace/Control Measures and Air Support operations.

(c) Non-qualification, evaluated events will be supervised by a designated AAP.

(2) **Prerequisite**. QUAL-285.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the qualification event.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events)**

AAP-610 **R E** **TACC** **L**

Task. Conduct airspace/control measures planning.

Condition(s). In garrison or in the field, within the FOS.

Standard(s). To demonstrate proficiency in the following areas:

(1) Coordinate and assist in the establishment of Letters of Agreement/Memoranda of Agreement with external agencies (FAA, ICAO, host nation) to define and delegate areas of control jurisdiction and conditions of use.

- Special Operating Conditions

- Detailed Air Traffic Control Procedures

(2) Coordinate airspace requirements and utilization procedures between the GCE, ACE, CSSE, and external agencies to ensure safe and orderly control and movement of aircraft within the JTF/MAGTF AO.

(3) Develop, review and standardize air traffic control procedures within the AO.

(4) Coordinate and publish an ATC contingency plan to allow for continuity of aircraft operations.

(5) Coordinate all requirements for ATC flight certification.

(6) Delegating responsibility for control of aircraft within the OPORD/ATO.

(7) Develop routing procedures for the AO that are deconflicted with FSCMs/ADCMs/ACMs to allow safe and efficient movement of aircraft throughout the AO.

(8) Establish high density air control zones (HIDACZ) and low level transit routes (LLTRs) within the AO, as required.

(9) Entering required C2 information into the applicable CTAPS database(s).

(10) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, Local SOPs, FMFRP 5-61.

Prerequisite(s)

(1) QUAL-285.

(2) Academics: A-02, A-14, B-07 - B-11, B-17, B-18, B-21, C-01, C-02, T-04, T-06, T-13 - T-16, T-18, T-22, T-23, T-28, T-29, T-34, T-35, T-39, T-41 - T-44, T-54, T-56.

External Syllabus Support. None.

AAP-611 **R E** **TACC** **L**

Task. Conduct air defense planning.

Condition(s). In garrison or in the field, within the FOS.

Standard(s). To demonstrate proficiency in the following areas:

(1) Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, etc.) and assist in the development of the air defense plan for the MAGTF.

(2) Review and make recommendations for modification of airspace/air defense control measures, as required.

(3) Conduct TMD planning, as required.

(4) Participate in the planning and development of emissions/radiation control measures.

(5) Assist in the development of BDZ/HVAA protection plans.

(6) Recommend changes to air defense asset positioning and weapons resupply procedures.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series.

Prerequisite(s). ADC-600.

External Syllabus Support. None.

AAP-612 **R E** **TACC** **L**

Task. Conduct Air Support planning.

Condition(s). In garrison or in the field, within the FOS.

Standard(s). Demonstrate proficiency in the following areas:

(1) Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the MAGTF battle plan.

(2) Review and make recommendations for modification of airspace/fire support coordination measures.

(3) Assist in TMD planning.

(4) Assist in the planning of emissions control measures.

(5) Assist in the planning for MEDEVAC operations.

(6) Recommend changes to asset positioning and logistical/communications requirements (e.g. FARP/FOB).

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25 series, MCWP 3-23.1, Local SOPs.

Prerequisite(s). CBC-210.

QUAL-681 **R E** **TACC** **L/S**

Task. Qualify the TACCO as an ATO/ACO Planner.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in AAP-610, 611, or 612.

(2) Assist in the final review of the ATO before release/forwarding.

(3) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-23.1, MCWP 3-25 series, Local SOPs, FMFRP 5-61.

Prerequisite(s). AAP-610, 611, 612.

External Syllabus Support. External C3 agencies.

3. **Current Operations Officer (COPS) Training**

a. **Purpose**. To refine the skills required for the Current Operations Officer qualification and to provide a means to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Current Operations Officer Qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the current operations section to ensure that action is taken to optimize the employment of MAGTF aviation resources.

(2) **Prerequisite(s)**. Combat Qualified in primary MOS. MAWTS-1 Tactical Air Commander's (TAC) course recommended but not required.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (2 Events)**

COPS-620 **R** **TACC** **L/S**

Task. Perform as a Current Operations Officer.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) Supervise the preparation and set up of Current Operations

(2) Supervise the execution of the current ATO by:

- Evaluating the capability of available assets to fulfill ATO tasking and recommending a course of action to the ACE Operations Officer when there is a shortfall.

- Keeping the ACE Operations Officer informed on unanticipated developments or problems that may impact planned operations.

- Approving adjustments to the published ATO when required by the current situation.

(3) Demonstrate familiarity with all aspects of air operations, to include force beddown, sortie availability, airspace control measures, communications, rules of engagement, aircraft capabilities/limitations, and munitions capabilities.

(4) Effect coordination with adjacent and senior air/ground agencies.

(5) Provide the Future Operations Officer with a summary of significant problems encountered in executing the current ATO to improve the quality and effectiveness of future ATO tasking.

(6) Ensure that backup procedures are prepared and can be rapidly implemented if automated support systems fail.

(7) Prepare reports from Current Operations for the commander's situation report, commander's daily briefing, and as directed by the ACE Operations Officer.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

Prerequisite(s)

(1) MAWTS-1 TAC course recommended.

(2) MAGTF Staff Training Program.

(3) SYS-200, 201, 203, 204, 205, and 206.

(4) Academics: A-02 - A-09, A-12 - A-14, A-16, A-17, B-06 - B-21, B-23 - B-25, C-01 - C-06, T-01, T-03 - T-06, T-08, T-10 - T-18, T-23, T-25, T-28 - T-32, T-35 - T-38, T-40, T-42 - T-44, T-46, T-50, T-54 - T56.

External Syllabus Support. External C3 agencies.

QUAL-682 **R E** **TACC** **L/S**

Task. Qualify the TACCO as a Current Operations Officer.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in COPS-620.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

Prerequisite(s). COPS-620.

External Syllabus Support. External C3 agencies.

4. **Future Operations Officer (FOPS) Training**

a. **Purpose**. To refine the skills required for the Future Operations Officer qualification and to provide a means to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Future Operations Officer qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the conduct of the TACC Future Operations Section.

(2) **Prerequisite(s)**. Combat Qualified in primary MOS, successful completion of JAOSC, and MAGTF Staff Training Program.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew is required.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (2 Events)**

FOPS-630	**R**	**TACC**	**L**

Task. Supervise the conduct of the Future Operations Section.

Condition(s). In garrison or in the field.

Standard(s). To supervise the Future Operations Section of the TACC in the following areas:

(1) Draft preliminary targeting guidance for presentation to the ACE targeting board when the ACE is employed as a maneuver unit.

(2) Supervise the preparation and set up of Future Ops.

(3) Issue the approved planning guidance and direct and monitor development of the ATO based on that guidance.

(4) Develop the ACE master air attack plan (MAAP).

(5) Prepare the air allocation request (ALLOREQ)/air support request (AIRSUPREQ) messages, as required.

(6) Prepare the sortie allotment (SORTIEALOT) message (if JFACC).

(7) Develop the ACE apportionment recommendation.

(8) Review the results of previous air operations and ensure that applicable tactics or procedures are developed as the dynamic combat situation requires (combat assessment).

(9) Consult with the Current Ops Officer to determine significant problems in managing the current ATO to improve the quality and effectiveness of future ATO tasking.

(10) Prepare reports from future operations for the comander's situation report, commander's daily briefing, and as directed by the ACE G-3.

(11) Ensure that backup procedures are prepared and can be rapidly implemented if automated planning systems fail.

(12) Attend briefings to the ACE commander and ACE G-3 concerning upcoming operations about to be put into an ATO.

(13) Keep Future Ops informed of the JFC/MAGTF/ACE commander's guidance, intent, and objectives.

(14) Receive (transition) the developed ACE support plan and provide to the Orders Development Section for direction to stand up an OPT to prepare a detailed ACE OPORD/FRAGO.

(15) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

Prerequisite(s)

(1) Combat Qualified in primary MOS.

(2) JAOSC.

(3) MAGTF Staff Training Program.

(4) SYS-209

External Syllabus Support. None.

QUAL-683 **R E** **TACC** **L/S**

Task. Qualify the TACCO as a Future Operations Officer.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in FOPS-630.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

Prerequisite(s). FOPS-630.

External Syllabus Support. External C3 agencies.

5. **Future Plans Officer (FPNO) Training**

a. **Purpose**. To refine the skills required for the Future Plans Officer qualification and to provide a means for the FPNO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for Future Plans Officer qualification.

(b) By syllabus completion, the TACCO must demonstrate proficiency in supervising the conduct of the ACE battle planning within the Future Plans section.

(2) **Prerequisite(s)**. Combat Qualified in primary MOS, successful completion of JAOSC, and MAGTF Staff Training Program.

(3) **Refresher Training**. Refresher training is required once a combat qualified TACCO has been absent from a TACCO billet for 16 months or longer. Upon return to an appropriate billet the TACCO will complete the "R" coded events in the 600 level syllabus.

c. **Crew Requirements**. A core competent, task-organized TACC crew is required.

d. **Academic Training**. Academic training may be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (2 Events)**

FPNO-640 **R** **TACC** **L**

Task. Supervise the conduct of future planning.

Condition(s). In garrison or in the field.

Standard(s). To supervise the Future Plans Section of the TACC in the following areas:

(1) Maintaining close and continuous liaison with MAGTF Future Plans.

(2) Conducting deliberate planning for MAGTF operation plans (OPLANs) and follow-on MAGTF missions associated with the current operation.

(3) Developing aviation courses of action (COAs) for each follow-on MAGTF mission under development.

(4) Developing ACE estimates of supportability for each follow-on MAGTF mission under development.

(5) Developing and refining OPLANs/OPORDs associated with each follow-on MAGTF mission.

(6) Providing detailed and fully integrated deployment, employment, mobilization, and sustainment plans for follow-on MAGTF mission.

(7) Preparing necessary briefs for COA and/or supportability decision briefs.

(8) Assisting Future Ops, as required, after the ACE Support Plan is transitioned to the operational planning team (OPT) for OPORD/FRAGO detailed preparation.

(9) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4.

Prerequisite(s)

(1) Combat Qualified in primary MOS.

(2) JAOSC.

(3) MAGTF Staff Training Program.

External Syllabus Support. None.

QUAL-684 **R E** **TACC** **L/S**

Task. Qualify the TACCO as a Future Plans Officer.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in FPNO-640.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP-32, MCWP 3-2, MCWP 3-25, MCWP 3-25.2 MCWP 3-25.3, MCWP 3-25.4, FM 100.42, Joint Pub 3-56.1, AGOS Manual, Appropriate Tactics Manual (TACMAN), FMFM 5-1, FMFM 5-4, Joint Staff Officer's Guide.

Prerequisite(s). FPNO-640.

External Syllabus Support. External C3 agencies.

6. **SPECIAL SKILLS DESIGNATIONS**

a. **Purpose**. To designate the TACCO as an Air Defense Coordinator (ADC) and ATO/ACO Planner (AAP), Current Operations Officer, Future Operations Officer, and Future Plans Officer.

b. **General**

(1) **Administrative Notes**

(a) An TACCO will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted and the TACCO will be certified by a designated SAC/MAW G3. A recommendation for designation will be staffed to the MAW Battlestaff trainer.

(c) The TACCO shall have a designation letter, with any waivers deferments or endorsements, filed and maintained in their MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the applicable Special Skills stage of training.

(b) Completion of applicable academics, as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (4 Events)**

DESG-690 **TACC**

Task. Designate the TACCO as an Air Defense Coordinator (ADC).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-680.

DESG-691 **TACC**

Task. Designate the TACCO as a ATO/ACO Plans Officer (AAP).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-681.

DESG-692 **TACC**

Task. Designate the TACCO as a Current Operations Officer.

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-682.

DESG-693 **TACC**

Task. Designate the TACCO as a Future Operations Officer.

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-683.

DESG-694 **TACC**

Task. Designate the TACCO as a Future Plans Officer.

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-684.

340. SPECIAL TRAINING REQUIREMENTS. None.

350. EXPENDABLE ORDNANCE REQUIREMENTS. None.

360. PROFICIENCY INTERVALS. Table 3-15, 3-16, 3-17, and 3-18 contain the proficiency intervals for the combat readiness, combat qualification, full-combat qualification and special skills training levels.

Table 3-15. TACCO Proficiency Interval for the Combat Readiness Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	200	24	0.2			X		L
	201	24	0.1			X		L
	202	12	0.2			X		S
	203	24	0.1			X		L
	204	24	0.1			X		L
	205	12	0.5			X		L
	206	24	0.2			X		L
	207	24	0.2			X		L
	208	24	0.2			X		L
	209	24	0.2			X		L
CBC	210	24	0.5			X		L
	211	24	0.5			X		S/L
	212	24	0.5			X		L/S
DBC	220	24	0.5			X		L

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	221	24	0.5			X		S/L
	222	24	0.5			X		L/S
ABT	230	24	0.5			X		L
	231	24	0.5			X		S/L
	232	24	0.5			X		L/S
SRC	240	24	0.5			X		L
	241	24	0.5			X		S/L
ORDP	250	24	0.5			X		L
ATOMP	260	24	0.5			X		L
	261	24	0.5			X		L/S
QUAL	280	36	1			X	X	L/S
	281	36	1			X	X	L/S
	282	36	1			X	X	L/S
	283	36	1			X	X	L/S
	284	36	1			X	X	L/S
	285	36	1			X	X	L/S
DESG	290	-	0					
	291	-	0					
	292	-	0					
	293	-	0					
	294	-	0					
	295	-	0					

Table 3-16. TACCO Proficiency Interval for the Combat Qualification Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
CBA	300	24	1			X		L/S
	301	24	1			X		L/S
DBA	310	24	1			X		L/S
	311	24	1			X		L/S

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
ATOPRO	320	24	1			X		L
	321	24	1			X		L/S
ORDO	330	24	1			X		L
	331	24	1			X		L/S
ATOPLO	360	24	1			X		L
	361	24	1			X		L/S
QUAL	380	36	2			X	X	L/S
	381	36	2			X	X	L
	382	36	2			X	X	L/S
	383	36	2			X	X	L/S
	384	36	2			X	X	L/S
DESG	390	-	0					
	391	-	0					
	392	-	0					
	393	-	0					
	394	-	0					

Table 3-17. TACCO Proficiency Interval for the Full-Combat Readiness Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SWO	400	24	0.5			X		S/L
	401	24	1			X		L/S
ATODO	410	24	0.5			X		L
	411	24	1			X		L/S
QUAL	480	36	1			X	X	L/S
	481	36	1			X	X	L/S
DESG	490	-	0					
	491	-	0					

Table 3-18. TACCO Proficiency Interval for the Special Skills Training Level

EVENT	CODE	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
ADC	600	24	0			X		L
	601	24	0			X		S/L
	602	24	0			X		L/S
AAP	610	24	0			X	X	L
	611	24	0			X	X	L
	612	24	0			X	X	L
COPS	620	24	0			X		L/S
FOPS	630	24	0			X		L
FPNO	640	24	0			X		L
QUAL	680	36	0			X	X	L
	681	36	0			X	X	L/S
	682	36	0			X	X	L/S
	683	36	0			X	X	L/S
	684	36	0			X	X	L/S
DESG	690	-	0					
	691	-	0					
	692	-	0					
	693	-	0					
	694	-	0					

370. EVENT UPDATE CHAINING. Table 3-19 and 3-20 contain the event update chaining for the TACCO.

Table 3-19. TACCO Combat Ready and Combat Qualified Training Event Update Chaining

EVENTS		EVENTS UPDATED
200		
201		
202		
203		

EVENTS		EVENTS UPDATED
204		
205		
206		
207		
208		
209		
210		208, 207, 206, 205, 200
211		210, 208, 207, 206, 205, 200
212		211, 210, 208, 207, 206, 205, 200
220		208, 207, 206, 205, 200
221		220, 208, 207, 206, 205, 200
222		221, 220, 208, 207, 206, 205, 200
230		205, 200
231		230, 205, 200
232		231, 230, 205, 200
240		207, 206, 205, 200
241		240, 207, 206, 205, 200
250		205
260		205
261		260, 205
280		212, 211, 210, 208, 207, 206, 205, 200
281		222, 221, 220, 208, 207, 206, 205, 200
282		232, 231, 230, 205, 200
283		241, 240, 207, 206, 205, 200
284		250, 205
285		261, 260, 205
290		
291		
292		
293		
294		
295		
300		208, 207, 205, 200
301		300, 208, 207, 205, 200
310		208, 207, 205, 200
311		310, 208, 207, 205, 200
320		205
321		320, 205
330		205
331		330, 205
360		

EVENTS		EVENTS UPDATED
361		360
380		301, 300, 208, 207, 205, 200
381		311, 310, 208, 207, 205, 200
382		321, 320, 205
383		331, 330, 205
384		361, 360
390		
391		
392		
393		
394		

Table 3-20. TACCO Full-Combat and Special Skills Training Event Update Chaining

EVENTS		EVENTS UPDATED
400		206, 205, 200
401		400, 206, 205, 200
410		
411		410
480		401, 400, 206, 205, 200
481		411, 410
490		
491		
600		206
601		206
602		601, 600, 206
610		285, 261, 260, 205
611		600, 206
612		210, 208, 207, 206, 205, 200
620		206, 205, 204, 203, 201, 200
630		209
640		
680		602, 601, 600, 206
681		612, 611, 610, 285, 261, 260, 210, 208, 207, 206, 205, 200
682		620, 206, 205, 204, 203, 201, 200
683		630, 209
684		640

EVENTS		EVENTS UPDATED
690		
691		
692		
693		
694		

AIR DEFENSE CONTROL OFFICER (ADCO)
(MOS 7210)

	PARAGRAPH	PAGE
INTRODUCTION	400	4-01
CORE COMPETENCIES/SKILLS	401	4-01
SUMMARY/INDEX OF LIVE/SIMULATOR EVENTS	402	4-03
UNIT TRAINING POLICIES	403	4-07
ADCO TRAINING PROGRESSION PHILOSOPHY	404	4-08
TRAINING PROGRESSION MODEL FOR ADCO	405	4-08
PROGRAMS OF INSTRUCTION (POI) FOR ADCO	406	4-10
SPECIAL DESIGNATIONS	407	4-10
GROUND/ACADEMIC TRAINING	410	4-11
TRAINING REFERENCES	411	4-15
LIVE/SIMULATOR EVENT TRAINING: ADCO	420	4-16
LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS	430	4-17
COMPONENTS OF A T&R EVENT	431	4-18
COMBAT CAPABLE TRAINING	432	4-19
COMBAT READY TRAINING	433	4-19
COMBAT QUALIFICATION TRAINING	434	4-34
FULL-COMBAT QUALIFICATION TRAINING	435	4-50
SPECIAL SKILLS QUALIFICATION TRAINING	436	4-53
SPECIAL TRAINING REQUIREMENTS	440	4-56
EXPENDABLE ORDNANCE REQUIREMENTS	450	4-57
PROFICIENCY INTERVALS	460	4-57
EVENT UPDATE CHAINING	470	4-59

400. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop UNIT warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective Training and Readiness (T&R) program is the first step in providing the MAGTF Commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, unit training managers can construct and execute an effective training plan which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training to satisfy the training requirements of Commanders at all levels in order to accomplish their wartime mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and form the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the Systems Approach to Training used in T&R development and Marine Corps UTM principles.

3. The Marine Corps Combat Readiness Evaluation System (MCCRES) and the T&R program are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills which enable units to satisfy the requirements as outlined in their applicable volume of the MCCRES.

401. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills which support the Mission Essential Tasks (METL) derived from FMFM 5-1 and T/O mission statements, which are realistically expected to be assigned in combat.

2. **MISSION**. Detect, identify and control the intercept of hostile aircraft and missiles and to provide navigational assistance to friendly aircraft in the accomplishment of support missions.

3. **MISSION ESSENTIAL TASK LIST**

a. Conduct amphibious/expeditionary operations to include the capability to phase control ashore.

b. Conduct air surveillance.

c. Conduct combat airspace management.

d. Control surface and airborne weapons systems.

e. Conduct air and theater missile defense weapons systems management.

f. Integrate with MAGTF, joint, and combined airspace command and control systems.

g. Conduct combat operations in an NBC environment.

4. **TAOC CORE CAPABILITY**

a. A core capable TAOC provides command, traffic, weapons, and surveillance sections, and is able to sustain minimum performance on a daily basis during sustained contingency/combat operations. The extent to which a core capable TAOC is able to conduct extended operations or simultaneous TAOC and EW/C operations is manning-level dependent.

b. **TAOC DETACHMENT CREW CONFIGURATION**

(1) Senior Air Director
(1) Senior Weapons Director
(2) Air Intercept Controller
(1) Missile Controller
(2) Assistant Weapons Controller
(1) Senior Traffic Director
(1) Tactical Air Traffic Controller
(1) Surveillance Identification Director
(2) Surveillance Operator
(1) Data Link Coordinator
(1) Systems Configuration Coordinator

402. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. COMBAT CAPABLE STAGE OF TRAINING. The Combat Capable Training summary is contained in the MCCES POI for the ADCO.

2. COMBAT READY TRAINING. Table 4-1 contains a listing of the combat readiness training events and associated page numbers.

Table 4-1. Combat Readiness Training List

EVENT	TASK	PAGE
SYS-200	Cable a TAOM system	4-20
SYS-201	Perform TAOM and ECU pallet pack up	4-20
SYS-202	Setup a TAOM for operations	4-20
SYS-203	Operate the TAOM	4-21
STD-210	Perform as a TATC	4-22
STD-211	Perform as a TATC	4-23
STD-212	Conduct tactical planning for the Traffic Section	4-24
STD-213	To be evaluated as an STD	4-25
STD-214	To perform as an STD	4-26
SID-230	Perform as an SO	4-27
SID-231	Perform as a DLC	4-27
SID-232	Perform DLC functions	4-28
SID-233	Perform DLC functions	4-29
SID-234	Conduct tactical planning for the Surveillance Section	4-29
SID-235	Maximize RADAR performance	4-30

EVENT	TASK	PAGE
SID-236	Perform as an SID	4-31
SID-237	Perform as an SID	4-32
SID-238	Perform Electronic Warfare (EW) operations	4-32
QUAL-280	To be evaluated for qualification and designated as an STD	4-33
QUAL-281	To be evaluated for qualification and designation as an SID	4-33
DESG-290	Designation as a Senior Traffic Director (STD)	4-34
DESG-291	Designation as a Surveillance Identification Director (SID)	4-34

3. COMBAT QUALIFICATION TRAINING. Table 4-2 contains a listing of the combat qualification training events and associated page numbers.

Table 4-2. Combat Qualification Training List

EVENT	TASK	PAGE
SWD-300	Perform MC functions	4-35
SWD-301	Take appropriate action for an aircraft emergency	4-36
SWD-302	To control a simulated section of fighter aircraft	4-36
SWD-303	To control a simulated section of fighter aircraft	4-37
SWD-304	To control a division of fighter aircraft	4-37
SWD-305	Perform as an AIC	4-38
SWD-306	To control a section of fighter aircraft	4-39
SWD-307	To control a division of fighter aircraft	4-39
SWD-308	To control a section/division of fighter aircraft	4-40
SWD-309	To control a section/division of fighter aircraft	4-40
SWD-310	To control a section/division of fighter aircraft	4-41
SWD-320	Conduct tactical planning for the Weapons Section	4-41
SWD-321	Perform as an SWD	4-43
SWD-322	Perform as an SWD	4-44
SAD-340	Perform system troubleshooting	4-45
SAD-341	Perform as an SAD	4-45
SAD-342	Conduct tactical planning for the Command Section	4-46
SAD-343	Perform as an SAD	4-46
SAD-344	Perform as an SAD	4-47
SAD-345	Perform site emplacement of a TAOC	4-47
SAD-346	Perform as an SAD	4-48
QUAL-380	To be evaluated for qualification and designation as an SWD	4-48

QUAL-381	To be evaluated for qualification and designation as an SAD	4-48
DESG-390	Designation as a Senior Weapons Director (SWD)	4-49
DESG-391	Designation as a Senior Air Director (SAD)	4-50

4. FULL COMBAT QUALIFICATION TRAINING. Table 4-3 contains a listing of the full combat qualification training events and associated page numbers.

Table 4-3. Full Combat Qualification Training List

EVENT	TASK	PAGE
SAAWC OPS 400	Perform the duties of the SAAWC Ops Officer	4-50
SAAWC OPS 401	Execute the duties as SAAWC Ops Officer	4-51
SAAWC OPS 402	Execute the duties as SAAWC Ops Officer	4-52
QUAL 480	Execute the duties as SAAWC Ops Officer	4-52
DESG 490	To be designated a SAAWC Ops officer	4-53

5. SPECIAL SKILLS QUALIFICATION TRAINING. Table 4-4 contains a listing of the special combat qualification training events and associated page numbers.

Table 4-4. Special Qualification Training List

EVENT	TASK	PAGE
AICI-500	Develop instruction techniques	4-54
AICI-501	Instruct section and division tactics	4-54
AICI-502	Instruct, monitor, and debrief an AIC	4-55
DESG-590	Designate the ADCO as an AICI	4-56
DESG-591	Designate the ADCO as a WTI	4-56
DESG-592	Designate the ADCO as an MDTI/SFTI	4-56

6. **OPERATOR CORE SKILLS**. Core skills are depicted in the following matrix (table 4-5) and directly support the METL for each Unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 4-5. Core Skills

METLS							
EVENT CODE	A	B	C	D	E	F	G
SYS-200	X	X	X	X			
SYS-201	X	X	X	X			
SYS-202	X	X	X	X			
SYS-203	X	X	X	X			X
STD-210			X				

METLS							
EVENT CODE	A	B	C	D	E	F	G
STD-211			X				
STD-212	X		X			X	
STD-213			X			X	
STD-214	X		X			X	
SID-230		X					
SID-231	X	X				X	
SID-232	X	X				X	
SID-233	X	X				X	
SID-234	X	X				X	
SID-235	X	X					
SID-236	X	X				X	
SID-237	X	X				X	
SID-238	X	X					
STD QUAL-280	X		X			X	
SID QUAL-281	X	X				X	
SWD-300			X	X	X		
SWD-301			X	X			
SWD-302			X	X			
SWD-303			X	X			
SWD-304			X	X			
SWD-305			X	X			
SWD-306	X		X	X			
SWD-307	X		X	X			
SWD-308	X		X	X			
SWD-309	X		X	X			
SWD-310	X		X	X			
SWD-320	X		X	X	X	X	
SWD-321	X		X	X	X	X	
SWD-322	X		X	X	X	X	
SWD QUAL 380	X		X	X	X	X	
SAD-340	X	X	X	X	X	X	X
SAD-341	X	X	X	X	X	X	
SAD-342	X	X	X	X	X	X	

METLS							
EVENT CODE	A	B	C	D	E	F	G
SAD-343	X	X	X	X	X	X	
SAD-344	X	X	X	X	X	X	
SAD-345	X						
SAD-346	X	X	X	X	X	X	
SAD QUAL 381	X	X	X	X	X	X	
SPECIAL SKILLS							
SAAWC OPS 400	X		X	X	X	X	
SAAWC OPS 401	X		X	X	X	X	
SAAWC OPS 402	X		X	X	X	X	
SAAWC OPS QUAL 480	X		X	X	X	X	
AICI 500				X			
AICI 501				X			
AICI 502				X			

403. UNIT TRAINING POLICIES

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Squadron and battalion commanding officers will ensure that this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation unit in combat lies at the heart of the T&R program. Unit readiness and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform those critical skills required in combat is essential.

3. Commanders shall ensure that all tactical training is conducted to a MCCRES standard. The MCCRES, as outlined in MCO P3501.1, is the unit training standard, and all syllabus events shall be tailored to meet MCCRES requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors which all commanders must address include, but are not limited to:

a. **Efficiency**. Time and resources expended are measurements for training efficiency. Commanders must ensure that all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. **Individual Differences**. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. **Decentralization of Training**. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. Commanders shall provide personnel the opportunities to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit.

6. **Risk Management**. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. **MACCS Integrated System Training**. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated airspace command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEX's should focus on the establishment of necessary communications and datalinks between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Information Link capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

404. ADCO TRAINING PROGRESSION PHILOSOPHY

The purpose of this syllabus is to develop and refine those skills required for the ADCO to function in a director position within a core capable TAOC crew. The progression of the ADCO through the syllabus has been tailored towards that end, by combining events into director position training. With the focus on director training, and the resulting reduction in the number of required events, it is incumbent upon the squadron commander to ensure that each event is completed in accordance with each performance standard established for that event.

405. TRAINING PROGRESSION MODEL FOR ADCO

1. The Training Progression Model for the Air Defense Control Officer (ADCO) is depicted in figure 4.1.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those qualifications an individual reports to the unit with (accession qualifications) after completion of the MOS-qualifying school. The highest tier of the progression model will contain

those qualifications held by only the most experienced personnel within a unit.

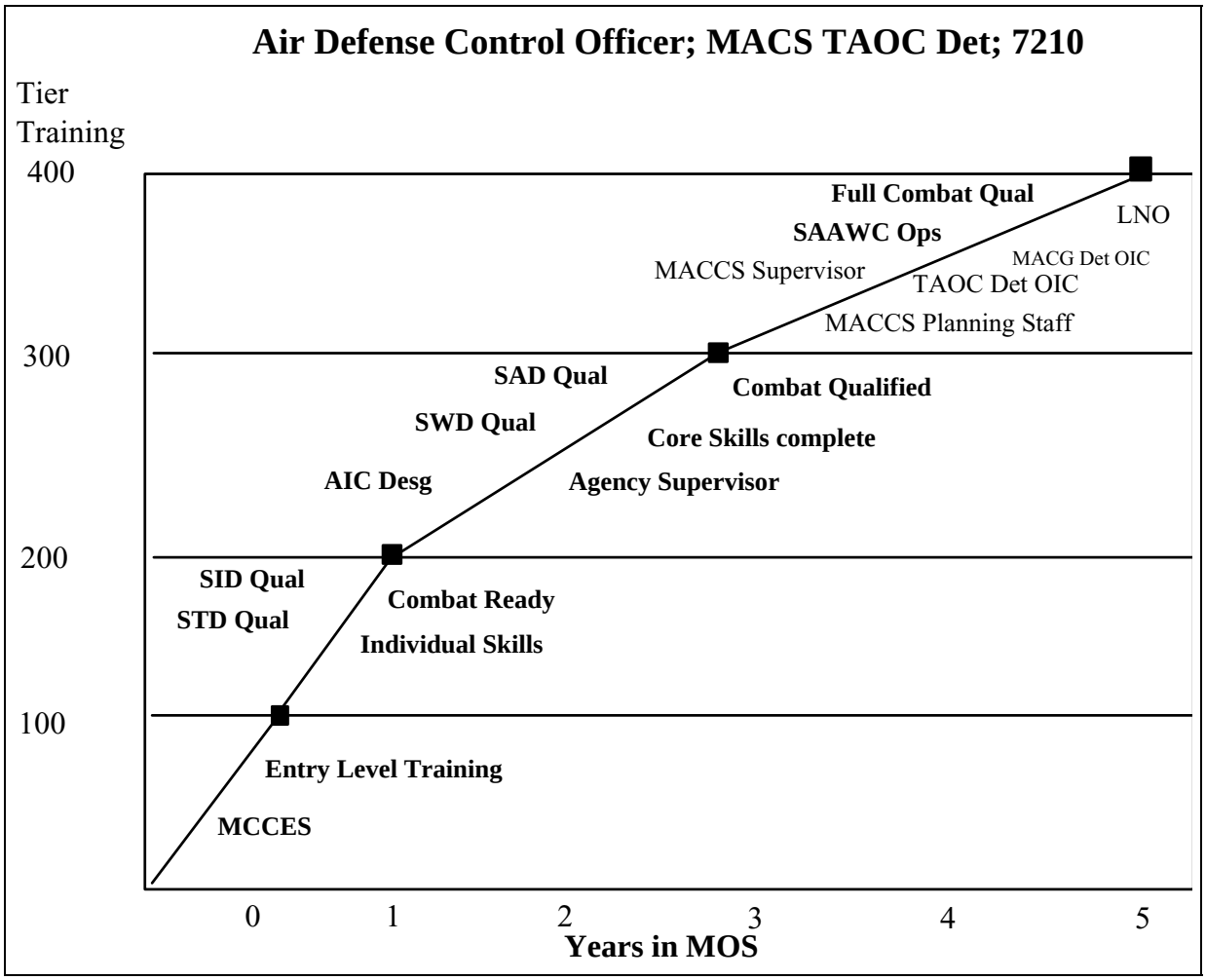


Figure 4-1. AIR DEFENSE CONTROL OFFICER TRAINING PROGRESSION MODEL

3. The Combat Capable tier will in most cases be accomplished at the completion of initial MOS skills training. With successful completion of the combat capable tier, unit personnel are assigned basic MOS qualification and progress to the Combat Ready tier.

4. On the Combat Ready tier, qualifications that are normally made available to fairly inexperienced personnel will be delineated. This tier should take the individual who has completed initial MOS skills training and make him or her proficient in core competencies. With successful completion of the combat ready tier, unit personnel move to the Combat Qualification tier.

5. The Combat Qualification tier will be that portion of the model that produces combat leaders and fully qualified crewmembers. The personnel that are being trained in the combat qualification tier are those men/women a

commanding officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Special Skill Qualification tier will contain special skills, and qualifications. These skills or qualifications are not prerequisite to combat qualification or the ability to function as combat leaders, but are those for which a certain number of trained individuals or crews must be maintained to accomplish special missions or tasks.

a. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the commanding officer with oversight of the unit training program.

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification of "combat capable" and "combat ready" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

406. PROGRAMS OF INSTRUCTION (POI) FOR ADCO

1. **BASIC ADCO**

WEEKS	COURSE/PHASE	ACTIVITY
16	AIR DEFENSE CONTROL OFFICERS COURSE (ADCOC)	MCCES

2. ADCO transition and refresher training will be accomplished at the individual MACS.

407. SPECIAL DESIGNATIONS

1. **Surveillance Identification Director (SID) Designation**. An Air Defense Control Officer (ADCO) is SID designated after having completed the required events of the Combat Ready phase of the appropriate T&R (ITS) syllabus. The ADCO shall be certified by a Combat Qualified TAOC SAD, TAOC WTI or the MAWTS-1 TAOC instructor and designated by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

2. **Senior Traffic Director (STD) Designation**. An Air Defense Control Officer (ADCO) is STD designated after having completed the required events of the Combat Ready phase of the appropriate T&R (ITS) syllabus. The ADCO shall be certified by a Combat Qualified TAOC SAD, TAOC WTI or the MAWTS-1 TAOC instructor and designated by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

3. **Senior Weapons Director (SWD) Designation**. Within the SWD syllabus the ADCO will be designated an Air Intercept Controller (AIC) after completion of the designated events. AIC is not a qualification for the ADCO. An ADCO is SWD designated after having completed the required events of the Combat Qualification phase of the appropriate T&R (ITS) syllabus. The ADCO shall be

certified by a Combat Qualified TAOC SAD, TAOC WTI or the MAWTS-1 TAOC instructor and designated by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

4. **Senior Air Director (SAD) Designation**. An Air Defense Control Officer (ADCO) is SAD designated after having completed the required events of the Combat Qualification phase of the appropriate T&R (ITS) syllabus. The ADCO shall be certified by a Combat Qualified TAOC SAD, TAOC WTI or the MAWTS-1 TAOC instructor and designated by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

5. **Sector Anti Air Warfare Coordinator (SAAWC) Operations Officer Designation**. A MACCS Officer is SAAWC OPS designated after having completed the required events of the Full Combat Qualified phase of the appropriate T&R (ITS) syllabus. The ADCO shall be certified by a qualified SAAWC, a Full Combat Qualified SAAWC OPS, a TAOC WTI or the MAWTS-1 TAOC instructor and designated by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

410. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 4-6 into their training plans. Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 4-6. Recommended T&R Lectures

Lecture Code	Lecture Title	Sponsor
	200 Level: Combat Ready Training	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES
	The Six Functions of Marine Aviation	
A-03	v Control of Aircraft & Missiles	MAWTS-1 ASP
A-04	v Offensive Air Support	MAWTS-1 ASP
A-05	v Assault Support	MAWTS-1 ASP
A-06	v Electronic Warfare	MAWTS-1 ASP
A-07	v Aerial Reconnaissance	MAWTS-1 ASP
A-08	v Anti-Air Warfare	MAWTS-1 ASP
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	MCCES
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	MAWTS-1 ASP
A-14	MACCS Communications	MAWTS-1 ASP
A-15	CTAPS Overview	MAWTS-1 ASP
A-16	Data Link Symbology	MCCES
A-17	Manual Crosstell procedures	MCCES

Lecture Code	Lecture Title	Sponsor
A-18	Encryption & Authentication Procedures	MCCES
A-19	COMSEC & Crypto handling	MCCES

	300 Level: Combat Qualified Training	
B-01	ASM/SSM Threat	MAWTS-1 ASP
B-02	Fixed Wing Threat	MAWTS-1 ASP
B-03	Rotary Wing Threat	MAWTS-1 ASP
B-04	REC Threat	MAWTS-1 ASP
B-05	Ground Threat	MAWTS-1 ASP
B-06	AOR Specific Threat & OP PLANS	Local MACG
B-07 B-08 B-09 B-10 B-11 B-12 B-13	TACC v TAOC v DASC v ATC Detachment v LAAD Bn v Air Defense Detachment v MWCS	MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP
B-14	AEW	MAWTS-1 ASP
B-15	MACCS/Joint Data link	MAWTS-1 ASP
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1 ASP
B-18	Airspace Planning/Management (Combat Airspace)	MAWTS-1 ASP
B-19	Tanker Management	MAWTS-1 ASP
B-20	Armed Reconnaissance	MAWTS-1 ASP
B-21	UAV Programs & Integration	MAWTS-1 WTI *
B-22	Link Architecture & Procedures	MAWTS-1 WTI *
B-23	CSAR/TRAP	MAWTS-1 ASP
B-24	NEO Execution	MAWTS-1 ASP
B-25	Execution Checklist	MAWTS-1 WTI *

	400 Level: Full Combat Qualified Training	
C-01	Integrated Combat Airspace Command & Control ($ICAC^2$)	MAWTS-1 ASP
C-02	Joint Air Operations	MAWTS-1 ASP
C-03	Theater Missile Defense	MAWTS-1 WTI *
C-04	MACCS in support of Special Operations	MAWTS-1 WTI *
C-05	ROE Development	MAWTS-1 WTI *
C-06	SIS Aircraft	MAWTS-1 ASP
C-07	JTAO Procedures	MCCES

(*) The lecture code is standardized throughout all MACCS related syllabi, and are used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may not be listed sequentially.

2. Academic training listed in table 4-7 is recommended for personnel assigned to the TAOC.

Table 4-7. TAOC ACADEMIC SYLLABUS

CODE	CLASS TITLE	SECTION	7210	7236	7234
T-01	AAW DOCTRINE	WEPS/AWC	X	X	X
T-02	ADC RESPONSIBILITIES	WEPS	X	X	
T-03	AI CONTROL AND TACTICAL TERMINOLOGY	WEPS/AWC	X	X	X
T-04	AIR DEFENSE SECTORS	WEPS/AWC	X	X	X
T-05	AIRSPACE MANAGEMENT	TRAF	X	X	
T-06	ATACC REQUIREMENTS	SAD	X	X	
T-07	ATACC TDC RESPONSIBILITIES	SURV	X	X	
T-08	ATDL-1	SURV	X	X	
T-09	ATOs AND FRAGs	TRAF/SURV	X	X	X
T-10	BRIEFING AND DEBRIEFING	WEPS	X	X	
T-11	C4I SYSTEMS	TRAF	X	X	
T-12	CAP MANAGEMENT	WEPS	X	X	
T-13	COMM BREVITY	WEPS	X	X	
T-14	COMPONENT FAULT STATUS	SAD/SCC	X	X	X
T-15	CREW COORDINATION	SAD/SCC	X	X	X
T-16	C&M PANEL	SAD/SCC	X	X	X
T-17	DATA LINK TROUBLESHOOTING	SURV/DLC	X	X	X
T-18	DCE	SURV	X	X	X
T-19	ECHELON OPERATIONS	SAD	X	X	
T-20	EMCON PLANNING AND IMPLEMENTATION	SURV	X	X	
T-21	EMERGENCY PROCEDURES	TRAF/WEPS	X	X	X
T-22	EP CAPABILITIES	SURV/SO	X	X	X
T-23	ERROR CODES	SURV/SO	X	X	X
T-24	FIGHTER MISSIONS	WEPS	X	X	
T-25	GBAD CONFIGURATION	WEPS	X	X	
T-26	GBAD VOICE CONTROL PROCEDURES	WEPS	X	X	
T-27	IADS EMPLOYMENT	WEPS	X	X	
T-28	IDENTIFICATION PROCEDURES	SURV/SO	X	X	X
T-29	INSTRUCTOR BRIEFING PROCEDURES	AICI	X	X	
T-30	INSTRUCTOR DEBRIEFING	AICI	X	X	

CODE	CLASS TITLE	SECTION	7210	7236	7234
T-31	INSTRUCTOR DOCUMENTATION	AICI	X	X	
T-32	INTERCEPT CONTROL	WEPS	X	X	
T-33	INTERFACE COORDINATION	SURV	X	X	
T-34	JRCC OPERATIONS	TRAF	X	X	
T-35	JTAO DATA LINK OPERATIONS	SURV/DLC	X	X	X
T-36	LINK OPS MESSAGES	SURV/DLC	X	X	X
T-37	MANUAL CROSS-TELL	SURV/WEPS	X	X	X
T-38	OPLANS & OPORDERS	SAD	X	X	
T-39	PHASING CONTROL ASHORE	SAD	X	X	
T-40	RADAR EMPLOYMENT & PERFORMANCE	SURV	X	X	
T-41	RADIO SETUP	SURV/SCC	X	X	X
T-42	RADIO SETUP, RPP/SEPP	TRAF/SCC	X	X	X
T-43	REMOTE RADAR	SURV	X	X	
T-44	RULES OF ENGAGEMENT (ROE)	WEPS	X	X	
T-45	SCC RESPONSIBILITIES	SAD/SCC	X	X	X
T-46	SIM OPERATOR (BUG PILOT)	SIM	X	X	X
T-47	SIM SCENARIO REQUIREMENTS	SIM	X	X	X
T-48	SIM SCENARIO TROUBLESHOOTING	SIM	X	X	X
T-49	SIMULATION MASTER RESPONSIBILITIES	SIM	X	X	X
T-50	SIMULATION PROGRAMMING	SIM	X	X	X
T-51	SIMULATION SETUP	SIM	X	X	X
T-52	SURVEILLANCE SECTION BRIEF	SURV	X	X	
T-53	SURVEILLANCE SECTION COMMUNICATIONS	SURV/SO	X	X	X
T-54	SURVEILLANCE SECTION RESPONSIBILITIES	SURV/SO	X	X	X
T-55	SU/SENSOR REGISTRATION	SURV	X	X	
T-56	SWD COORDINATION REQUIREMENTS	WEPS	X	X	
T-57	SYSTEM TROUBLESHOOTING	SAD/SCC	X	X	X
T-58	TADIL-A	SURV/DLC	X	X	X
T-59	TADIL-B/NATO LINK 1	SURV/DLC	X	X	X
T-60	TADIL-C OPERATIONS	TRAF	X	X	X
T-61	TADIL-J	SURV/DLC	X	X	X
T-62	TANKER MANAGEMENT	TRAF	X	X	X
T-63	TAOC COMMUNICATIONS	SAD/SCC	X	X	X
T-64	TAOC CONFIGURATION CASUALTY MODES	SAD/SCC	X	X	X
T-65	TAOC CREW BRIEF	SAD	X	X	
T-66	TAOC DATA LINK CAPABILITIES	SURV/DLC	X	X	X
T-67	TAOC EMPLOYMENT & POWER REQUIREMENTS	SAD	X	X	
T-68	TAOC REPORTS/FORMATS	SAD/SCC	X	X	X

CODE	CLASS TITLE	SECTION	7210	7236	7234
T-69	TDS PLATFORMS	SURV/DLC	X	X	X
T-70	THEATER AIR GROUND SYSTEM	WEPS	X	X	
T-71	THREAT AIRCRAFT AND MISSILES	WEPS/AWC	X	X	X
T-72	THREAT GROUND AND NAVAL FORCES	WEPS/AWC	X	X	X
T-73	THREAT RANKING & WEAPONS ASSIGNMENT	WEPS/AWC	X	X	X
T-74	THREAT TACTICS	WEPS	X	X	
T-75	TRAFFIC BRIEF	TRAF	X	X	
T-76	TRAFFIC COMM PROCEDURES	TRAF	X	X	X
T-77	TRAFFIC SECTION RESPONSIBILITIES	TRAF	X	X	X
T-78	TRAP/SAR	TRAF	X	X	X
T-79	T&R PROGRAM	SAD	X	X	
T-80	US/ALLIED AIRCRAFT AND MISSILES	WEPS/AWC	X	X	X
T-81	US/ALLIED GROUND AND NAVAL FORCES	WEPS/AWC	X	X	X
T-82	WEAPONS COMMUNICATIONS	WEPS/AWC	X	X	X
T-83	WEAPONS DATA LINK ORDERS	WEPS/AWC	X	X	X
T-84	WEAPONS MODES OF OPERATIONS	WEPS	X	X	
T-85	WEAPONS SECTION BRIEF	WEPS	X		
T-86	WEAPONS SECTION RESPONSIBILITIES	WEPS/AWC	X	X	X
T-87	WEATHER	TRAF	X	X	X

3. External academic courses of instruction available to complete the syllabus are listed below.

COURSE	ACTIVITY
Weapons and Tactics Instructors (WTI) Course	MAWTS-1
Multi-TADIL Advanced Joint Interface Course (MAJIC)	FORCECOM
JTIDS Course	FORCECOM
JTIDS Network Design & System Management (JNDSM)	FORCECOM
Joint Aerospace Computer Applications Course	FORCECOM
Joint Aerospace Command and Control Course (JACAC)	FORCECOM
Military Airspace Management Course	FORCECOM
Joint Doctrine Air Campaign Course (JDACC)	AFCSC Atlanta, GA

411. TRAINING REFERENCES

1. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

TITLE	
NWP 22	Air Control in Amphibious Operations

NWP 32	Anti-Air Warfare
MCWP 3-2	Aviation Operations
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook
MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.12	MWCS Handbook
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 6-18	Techniques and Procedures for Fire Support Coordination
OPNAVINST 3710	NATOPS MANUAL
TM-11240 Series	Motor Transport Technical Characteristics
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
JtDivO P3120.23	FSC SOP
ACP-125	Allied Communication Publication
DASC PCL	DASC Pocket Checklist
Joint Pub	JTAO Handbook (Purple book)
Joint Pub 3-56.1	Joint Air Operations Command and Control
	TOPGUN Manual
	AGOS Manual
	Understanding Link 4A/11/16
	Understanding Data Links
MCM 3-1	Threat Reference Manual

420. LIVE/SIMULATOR EVENT TRAINING: ADCO

1. COMBAT **CAPABLE TRAINING**

STAGE	EVENTS	HOURS	PERCENT
ADCOC MCCES			60.00%

2. **COMBAT READY STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
SYSTEM TRAINING	4	9.5	1.40%
SENIOR TRAFFIC DIRECTOR TRAINING	6	40	4.50%
SURVEILLANCE IDENTIFICATION DIRECTOR TRAINING	10	68	9.10%
COMBAT READY TOTALS:	20	117.5	15.00%

3. **COMBAT QUALIFICATION STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
SENIOR WEAPONS DIRECTOR TRAINING	15	63	11.40%
SENIOR AIR DIRECTOR TRAINING	8	96	8.60%

COMBAT QUALIFICATION TOTALS:	23	159	20.00%

4. **FULL COMBAT QUALIFICATION STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
SAAWC OPERATIONS OFFICER TRAINING	4	32	5.00%
FULL COMBAT QUALIFICATION TOTALS:	4	32	5.00%

5. **INSTRUCTOR STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
AIR INTERCEPT CONTROL INSTRUCTOR TRAINING	3	28	0.00%
INSTRUCTOR TRAINING TOTALS:	3	28	0.00%
MOS 7210 T&R SYLLABUS TOTALS:	50	336.5	100.00%

430. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. **General**. The majority of the Air Defense Control Officer syllabus is ground training which requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified Air Defense Control Officer.

a. **Live Training**. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

b. **Simulator Training**. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted in the Tactical Air Operations Module (TAOM) and the Sector Anti Air Warfare Facility (SAAWF) where applicable. Training not conducted in the TAOM or SAAWF shall be replaced with live training where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

2. **Minimum Performance Time for Syllabus "Write-Off"/Designations**. Personnel may receive credit for successful completion of any syllabus requirement/performance standards (except qualifications) upon either a written, oral, or practical demonstration of proficiency, at the Commanding Officer's discretion. Completion of 80 percent of any syllabus event (except qualifications) may be "written-off" as complete at the discretion of the designated evaluator. Qualifications require a completed performance evaluation, and the designation signed by the Commanding Officer.

3. **Evaluation of Training**. Evaluation of those portions of the syllabus which are academic in nature will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per T&R Manual, Volume 1, and the standardized evaluation forms located in the appendix A to this syllabus.

431. COMPONENTS OF A T&R EVENT

1. **General**. An event contained within a T&R Manual is an Individual or collective training standard and contains seven or eight components, dependent on the tier in which they are contained:

1/	2/	3/	4/	5/	6/
SAM-XXX	**0.5**	**T,C,R,**	**E**	**EQUIP**	**L/S (NS)**

TASK: The title of a unit of work which needs to be done in the performance of a Marine's duties. It is a clearly stated performance-oriented action requiring learned skills and knowledge, i.e. Engage a rotary winged aircraft.

CONDITION(S): The condition(s) set for the real-world or combat circumstances in which the tasks are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this should be stated.

STANDARD(S): The performance standard indicates the basis for judging the effectiveness of the performance. It consists of a carefully worded statement which identifies the proficiency level expected when the task is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

PERFORMANCE STEP(S): *Listed for 100 level T&R events only.* Performance steps are the actions or decisions required to fulfill proficiency established by the standard. The major performance steps which are required to perform the task to proficiency are listed in the order of performance. Minor steps are not listed.

PREREQUISITE(S): Provides a listing of academic training or other T&R events which must be completed prior to satisfying the task.

REFERENCE(S): Listing of doctrinal or reference publications which may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

ORDNANCE: A listing of Ordnance types and quantities required to satisfy the Task.

EXTERNAL SUPPORT REQUIREMENT(S): A listing or description of the external support requirements which may be required to satisfy completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES: 1/ Events are coded per Appendix B of T&R Manual Vol 1.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable Program of Instruction (Basic POI is understood).

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision Device; Where contained within **( )** denotes optional conditions.

432. COMBAT CAPABLE TRAINING. Combat Capable training (100 series) will be conducted during the ADCOC at MCCES, 29 Palms, CA.

433. COMBAT READY TRAINING

1. **SYSTEM TRAINING**

a. **Purpose**. To refine the ADCO's skills required for trouble shooting and maintaining the TAOM system and to provide a means for the ADCO to remain current.

b. **General**

(1) **Administrative Notes**. Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite(s)**. Completion of the Combat Capable stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified ADCO has been absent from an ADCO billet for 16 months or longer. Upon return to an appropriate billet the ADCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. None.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events, 9.5 Hours)**

SYS-200 **2.0** **T C R** **TAOC** **L**

Task. Cable a TAOM system.

Condition(s). Given two or more TAOMs and two or more radars.

Standard(s). Perform system cabling to include:

(1) DDB/VCB cabling.

(2) Multi-radar cabling.

(3) Power and ECU pallet cabling.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-201 **3.0** **T C R** **TAOC** **L**

Task. Perform TAOM and ECU pallet pack up.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s). Prepare the TAOM for transport by performing the following actions:

(1) Remove and pack up all appropriate equipment on the TAOM and ECU pallet.

(2) Attach M-1022 Mobilizer as required to the TAOM.

(3) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-202 **3.0** **T C R** **TAOC** **L**

Task. Setup a TAOM for operations.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s). Properly set up a TAOM, ECU pallet, and external communications equipment as required.

(1) Unpack and attach roof mount antennas.

(2) Attach ECU ducting.

(3) Erect ground antennas.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-203 **1.5** **T C R** **TAOC** **L**

Task. Operate the TAOM.

Condition(s). Operate in a simulated NBC environment using MOPP and CBR equipment.

Standard(s)

(1) Operate one TAOM with the CBR unit attached.

(2) Conduct MOPP gear exchange during crew rotation.

(3) Perform crew requirements while in MOPP level four.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). NBCD training and MOPP level exchange.

External Syllabus Support. None.

2. **SENIOR TRAFFIC DIRECTOR TRAINING**

a. **Purpose**. To refine the ADCO’s skills required for the Senior Traffic Director (STD) designations and to provide a means for a designated STD to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for STD qualifications.

(b) During each period, the ADCO must demonstrate proficiency in passing threat information, maintaining Situation Awareness (SA), using the proper report formats, and functioning as the director of the Traffic Section.

(c) At least one live and one simulated STD performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite(s)**. Completion of the Combat Capable stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified ADCO has been absent from an ADCO billet for 16 months or longer. Upon return to an appropriate billet the ADCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent TAOC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (6 Events, 40.0 Hours)**

STD-210 4.0 T TAOC S

Task. Perform as a TATC.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Enter and maintain the Traffic Data Base (DB) IAW the STD's directions.

(2) RIO aircraft, to include a SALT brief.

(3) Conduct SIF/Mode IV checks on all applicable aircraft.

(4) Initiate and maintain TADIL-C for all capable aircraft until a handover is accomplished.

(5) Conduct external/internal hand overs of all aircraft as required.

(6) Coordinate Aerial Refueling (AR) operations.

- Place tanker on the appropriate track and provide flight following as required.

- Execute the slide/retrograde plan as the threat dictates or IAW the directions of the STD.

- Monitor, record, and report tanker fuel status.

- Vector aircraft to tanker and continue to monitor fuel status of the enroute aircraft.

- Vector aircraft departing the tanker to a fragged/coordinated control point (CP) and initiate a hand over to the aircraft's terminal controller.

(7) Maintain proper symbol management.

(8) Maintain appropriate Traffic Section logs.

(9) Assist the STD as required in traffic management functions.

(10) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.1, MCWP 3-25.7, AGOS Manual, FM 100-42, JCS PUB 3-52, JCS PUB 1-02, MAWTS-1 ASP.

Prerequisite(s)

(1) Local Area Operating Procedures academics/test.

(2) Academics: T-09, T-21, T-42, T-60, T-62, T-77, T-87, T-76.

External Syllabus Support. Fixed/Rotary wing aircraft.

STD-211 **4.0** **T R E** **TAOC** **L/S**

Task. Perform as a TATC.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Enter and maintain the Traffic Data Base (DB) IAW the STD's directions.

(2) RIO aircraft, to include a SALT brief.

(3) Conduct SIF/Mode IV checks on all applicable aircraft.

(4) Initiate and maintain TADIL-C for all capable aircraft until a handover is accomplished, as directed.

(5) Conduct external/internal hand overs of all aircraft as required.

(6) Coordinate Aerial Refueling (AR) operations.

- Place tanker on the appropriate track and provide flight following as required.
- Execute the slide/retrograde plan as the threat dictates or by the direction of the STD.
- Monitor, record, and report tanker fuel status.
- Vector aircraft to the tanker and continue to monitor the fuel state of the enroute aircraft.
- Vector aircraft departing the tanker to a fragged/coordinated control point (CP) and initiate a handover to the aircraft’s terminal controller.

(7) Maintain proper symbol management.

(8) Maintain appropriate logs.

(9) Assist the STD as required in traffic management functions.

(10) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.1, MCWP 3-25.7, AGOS Manual, FM 100-42, JCS PUB 3-52, JCS PUB 1-02, MAWTS-1 ASP.

Prerequisite(s). STD-210.

External Syllabus Support. External C3 agencies and Fixed/rotary wing aircraft.

STD-212 8.0 T R TAOC L/S

Task. Conduct tactical planning for the Traffic Section.

Condition(s). In a garrison/field environment with appropriate exercise documentation.

Standard(s). Demonstrate proficiency with the following considerations associated with planning an exercise:

(1) Recommend Airspace Control Measures (ACM) to be used within the TAOC Area of Responsibility (AOR).

(2) Determine and develop the procedures for RADAR, data link, and procedural handovers.

(3) Conduct coordination with subordinate, adjacent, and higher units for implementation of handover procedures and ACM.

(4) The STD must familiarize himself with the published Airspace Control Measures (ACM) found in the Airspace Control Order (ACO), Airspace Control Plan (ACP), and Operations Order (OPORDER) in order to determine the impact of site selection and its impact on mission accomplishment.

(5) Conduct a detailed threat analysis.

(6) Identify the Traffic Section communications requirements and assignments.

(7) Establish procedures for Marine sector air operations and procedures for updating and passing fuel give away and tanker status.

(8) Identify TATC responsibilities.

(9) Coordinate the procedures for receiving and modifying the ATO.

(10) Identify all Traffic DB requirements.

(11) Preparing the Traffic Section crew brief IAW the TAOC PCL and MCCRES standards.

(12) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.1, MCWP 3-25.7, AGOS Manual, FM 100-42, JCS PUB 3-52, JCS PUB 1-02, MAWTS-1 ASP.

Prerequisite(s). Academics: T-05, T-09, T-11, T-21, T-34, T-42, T-60, T-62, T-75, T-76, T-77, T-78, T-86.

External Syllabus Support. Required planning documents.

STD-213 8.0 T R E TAOC S

Task. To be evaluated as an STD.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency with the following areas:

(1) Effectively manage the Traffic Section IAW the SAD's direction.

(2) Supervise all Traffic DB entries.

(3) Ensure effective employment and adherence to published ACMs and RIO procedures.

(4) Establish TADIL-C/Link 4A as briefed.

(5) Manage the control of Aerial Refueling (AR) operations.

(6) Assist in the coordination of SAR/TRAP missions in the assigned sector.

(7) Ensure adherence to established Traffic Section emergency procedures.

(8) Conduct handovers with the Weapons Section and external agencies.

(9) Perform appropriate VFS/OS functions associated with Traffic.

(10) Assist the Surveillance Section in the identification of friendly aircraft in the assigned sector.

(11) Compile and forward applicable reports.

(12) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.1, MCWP 3-25.7, AGOS Manual, FM 100-42, JCS PUB 3-52, JCS PUB 1-02, MAWTS-1 ASP.

Prerequisite(s). STD-212.

External Syllabus Support. None.

STD-214 **8.0** **T R E** **TAOC** **L**

Task. To perform as an STD.

Condition(s). During a live exercise.

Standard(s)

(1) Demonstrate proficiency with the requirements identified in STD-213.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.1, MCWP 3-25.7, AGOS Manual, FM 100-42, JCS PUB 3-52, JCS PUB 1-02, MAWTS-1 ASP.

Prerequisite(s). STD-213.

External Syllabus Support. External C3 agencies, tactical/support aircraft.

3. **SURVEILLANCE IDENTIFICATION DIRECTOR TRAINING.**

a. **Purpose**. To refine the ADCO's skills required for the Surveillance Identification Director (SID) Qualification to provide a means for a designated SID to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for SID qualifications.

(b) During each period, the ADCO must demonstrate proficiency in passing threat information, maintaining Situation Awareness (SA), using the proper report formats, and functioning as the director of the Surveillance Section.

(c) At least one live and one simulated SID performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite(s)**

(a) Completion of the Combat Capable stage of training.

(b) All general items listed in Chapter 7, paragraph 0734.2 (DLC) of this manual apply.

(3) **Refresher Training**. Refresher training is required once a combat qualified ADCO has been absent from an ADCO billet for 16 months or longer. Upon return to an appropriate billet the ADCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent TAOC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (10 Events, 68.0 Hours)**

SID-230 **4.0** **T R** **TAOC** **S/L**

Task. Perform as an SO.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter appropriate Surveillance DB entries to include:

- Local/Remote RADARs.
- Special points or corridors.
- IFF/SIF codes.
- Auto ID parameters.
- Applicable map/overlay features.

(2) Executing briefed ID and classification procedures to include:

- Correlating SIF codes with published directives.
- Interrogate Mode IV and post results as required.
- Adhering to the published ID criteria/ROE when evaluating unknown tracks.
- Timely classification of tracks IAW SID's direction.

(3) Symbol management focusing on data entry/updating.

(4) Conducting manual crosstell as directed.

(5) Compile and forward any applicable reports.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-22, T-23, T-28, T-37, T-53, T-54.

External Syllabus Support. External C^3 agencies or SAAWC Facility.

SID-231 **8.0** **T R** **TAOC** **L/S**

Task. Perform as a DLC.

Condition(s). In a garrison/field environment, using TAOC equipment, operate a serial link (TADIL-B, ATDL-1, NATO Link-1).

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter required Data Base entries.

(2) Activate, determine the status of, and troubleshoot each link as applicable.

(3) Perform all order functions associated with the appropriate link.

(4) Perform link management functions.

(5) Successfully complete 80% of the above listed standards.

Reference(s). None

Prerequisite(s). Academics: T-08, T-17, T-33, T-36, T-59, T-66, T-69.

External Syllabus Support. External C3 agencies.

SID-232 **8.0** **T R** **TAOC** **L/S**

Task. Perform DLC functions.

Condition(s). In a garrison/field environment, using TAOC equipment, operate a live netted Data Link (TADIL-A/LINK-11).

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter required Data Base entries.

(2) Activate, determine the status of, and trouble shoot each link as applicable.

(3) Perform a POFA test.

(4) Operate in the following modes:

- Radio Silent (RADSIL).
- Net Control Station (NCS).
- Picket.

(5) Perform link management functions IAW SID’s direction.

(6) Perform Data Link coordination responsibilities over designated voice nets.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-17, T-33, T-36, T-58, T-66, T-69.

External Syllabus Support. JTAO Data Link platform(s).

SID-233 **4.0** **T R E** **TAOC** **L/S**

Task. Perform DLC functions.

Condition(s). In a garrison/field environment, using TAOC equipment, operate a in a nodeless link environment (TADIL-J/Link-16).

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to chapter 7, paragraph 734.1 of this volume.

(2) Achieve network synchronization, enter TADIL-J/Link-16 net, determine the status of, and trouble shoot the link as applicable.

(3) Conduct passive operations utilizing passive synchronization.

(4) Perform TADIL-J/Link-16 operations in a multiple net/stacked net evolution.

(5) Establish TAOC TADIL-J/Link-16 as Network Time Reference (NTR).

(6) Establish proper Interference Protection Feature (IPF) establish Normal (200 watts), Exercise Override (1000 watts), or Combat Override IPF as required.

(7) Extract correct data from Network Design Load (NDL) and enter into DB.

(8) Extract correct Network Participation Group (NPG) from the OPTASKLINK and NDL for entry into the DB.

(9) Enter appropriate data filters as listed in OPTASK LINK.

(10) Trouble shoot JTIDS Module and associated JTIDS equipment.
(11) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisites. Academics: T-17, T-33, T-36, T-61, T-66, T-69.

External Syllabus Support. TADIL-J/Link-16 capable external C3 agencies.

SID-234 **8.0** **T R** **TAOC** **L/S**

Task. Conduct tactical planning for the Surveillance Section.

Condition(s). In a garrison/field environment with appropriate exercise documentation.

Standard(s). Demonstrate proficiency with the following considerations associated with planning an exercise.

(1) Identify potential gaps in coverage due to terrain masking and RADAR horizon limitations, and recommend emplacement/employment of TAOC RADARs.

(2) Conduct coordination with subordinate, adjacent, and higher units for data link architecture and implementation IAW the OPTASK LINK.

(3) Extract the ID matrix IAW published ROE, OPORDER, ACP, or ACO.

(4) Conduct a detailed threat analysis.

(5) Identify the Surveillance Section communications requirements and assignments.

(6) Recommend the TAOC's and subordinate agencies' EMCON plan (COMM/RADCON) based on OPORDER, ACP, and ACO direction.

(7) Identify Surveillance Operator (SO) and DLC responsibilities.

(8) Plan for the employment of a remote RADAR.

(9) Identify Surveillance DB requirements.

(10) Preparing the Surveillance Section crew brief IAW the TAOC PCL and MCCRES standards.

(11) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-07, T-08, T-09, T-17, T-20, T-33, T-36, T-40, T-43, T-52, T-58, T-59, T-61, T-66, T-69.

External Syllabus Support. Required planning documents.

SID-235 8.0 T R TAOC L

Task. Maximize RADAR performance.

Condition(s). In a garrison/field environment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Recommend RADAR site selection.

(2) Perform RADAR alignment.

(3) Perform RADAR registration.

(4) Conduct coordination to optimize performance of selected RADARS.

(5) Recommend a RADAR degradation plan.

(6) Develop a RADAR coverage diagram for system RADARs.

(7) Conduct remote RADAR operations.

(8) Plan for AN/TPS-59 decoy employment.

(9) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-40, T-43, T-55.

External Syllabus Support. None.

SID-236 8.0 T R E TAOC L/S

Task. Perform as an SID.

Condition(s). In a garrison/field exercise environment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct a detailed crew brief developed IAW the pertinent air operations information received via the TAOC Operations Brief/ MACCS Commander's brief. The brief will be conducted IAW the TAOC PCL and MCCRES standards.

(2) Supervise surveillance data base entries including EMCON, data links, radar performance, MRRs, and ID corridors.

(3) Supervise the air surveillance of the assigned sector.

(4) Supervise the implementation of the established ID criteria and subsequent classification process.

(5) Supervise initialization and management of data links.

(6) Perform detailed casualty procedure planning in order to assume the functions of the Track Data Coordinator (TDC) or Interface Coordination Officer (ICO) when operating as the alternate TACC.

(7) Manage the EP/EMCON plan for the TAOC and subordinate agencies.

(8) Perform appropriate VFS/OS functions associated with surveillance.

(9) Implement the published manual crosstell procedures.

(10) Manage the Surveillance Section IAW the SAD's direction.

(11) Compile and forward applicable reports.

(12) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). SID-230 through 235.

External Syllabus Support. External C3 agencies.

SID-237 8.0 T R E TAOC L

Task. Perform as a SID.

Condition(s). In a garrison/field exercise environment.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in SID-236.

(2) Conduct surveillance planning and operations with a non-MACCS JTAO platform.

(3) Successfully complete 80% of the above listed requirement.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). SID-236.

External Syllabus Support. External C3 agencies.

SID-238 4.0 T R TAOC L/S

Task. Perform Electronic Warfare (EW) operations.

Condition(s). In a garrison/field environment using TAOC equipment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter the TAOC EMCON plan and missile thresholds in the DB.

(2) Detecting, identifying, and reporting any jamming to the SAD.

(3) Fixing the location of threat jammers with proper symbology (strobes/air tracks).

(4) Reacting to the EMCON alert and implementing the TAOC EMCON plan IAW the SAD’s direction.

(5) Conduct coordination with the RADAR tech to optimize RADAR performance in an EW environment.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-20, T-22, T-40.

External Syllabus Support. Applicable platforms.

QUAL-280 8.0 T R E TAOC L

Task. To be evaluated for qualification as an STD.

Condition(s). During a garrison/field exercise.

Standard(s)

(1) Demonstrate proficiency in the requirements identified in STD-213.

(2) Successfully complete 80% of the above listed standards.

Reference(s). None.

Prerequisite(s). STD-214.

External Syllabus Support. External C3 agencies.

QUAL-281 8.0 T R E TAOC L

Task. To be evaluated for qualification and designation as a SID.

Condition(s). During a garrison/field exercise.

Standard(s). Demonstrate proficiency in the requirements identified in SID-237.

Reference(s). None.

Prerequisite(s). SID-237.

External Syllabus Support. External C3 agencies and tactical/support aircraft.

4. **COMBAT READY DESIGNATIONS.**

a. **Purpose**. To designate the ADCO as a Surveillance Identification Director (SID) and a Senior Traffic Director (STD).

b. **General**

(1) **Administrative Notes**

(a) An ADCO will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted by the squadron's TAOC and/or WTI Training and Readiness Officer and a recommendation will be staffed to the Commanding Officer.

(c) The ADCO shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Combat Capable stage of training.

(b) Completion of the MACCS Academic COI (200 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. TAOC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Designation Events (2 Events, 0.0 Hours)**

DESG-290 **0.0** **TAOC**

Task. Designation as a Senior Traffic Director (STD).

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-280.

DESG-291 **0.0** **TAOC**

Task. Designation as a Surveillance Identification Director (SID).

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-281.

434. COMBAT QUALIFICATION TRAINING

1. SENIOR WEAPONS DIRECTOR TRAINING (SWD)

a. **Purpose**. To refine the ADCO's skills required for designation as a Air Intercept Controller (AIC) and qualification and designation as a

Senior Weapons Director (SWD). Additionally, these events will provide a means for the designated AIC/SWD to remain current.

b. **General**

(1) **Administrative Notes**

(a) Combat Qualification Training will consist of planning for and execution of Anti-Air Warfare (AAW) exercise. This stage of training encompasses both AIC and SWD specific training events.

(b) The AIC will become proficient in controlling simulated and live fighter aircraft. Upon satisfactory completion of SWD events 301-310, the ADCO will be designated as an Air Intercept Controller (AIC).

(c) The TACTS facilities should be used when available for debriefing.

(d) For evaluation purposes, a mission will consist of a brief, execution and debrief of each event.

(2) **Prerequisite**. Combat Capable Stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified ADCO has been absent from an ADCO billet for 16 months or longer. Upon return to an appropriate billet the ADCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. Core competent TAOC crew.

d. **Academic Training**. TAOC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Live and Simulator Event Training (15 Events, 63.0 Hours)**

SWD-300	4.0	T R	TAOC	L/S

Task. Perform MC functions.

Condition(s). During an exercise, utilizing a single FU, in a centralized mode of control, with data link established, in a medium/high intensity air defense environment.

Standard(s). Perform in the following areas:

(1) Brief the MC portion of the TAOC crew brief IAW the TAOC Pocket Checklist.

(2) Ensure related DB entries are entered and correct.

(3) Maintain an accurate/critical information flow to the FU via the simulated net(s).

(4) Complete assignments against an air threat.

(5) Ensure effective cross-boundry coordination between engagement zones IAW the SWD's direction.

(6) Disseminate appropriate WCS, ADWC, and SOA to the FU.

(7) Perform appropriate OS functions.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). Academics: T-04, T-25, T-26, T-37, T-82, T-83, T-86.

External Syllabus Support. SAM FU if live.

SWD-301 **0.5** **T R** **TAOC** **S**

Task. Take appropriate action for an aircraft emergency.

Condition(s). During a simulated emergency (controlled and uncontrolled).

Standard(s). Successfully complete squadron SOP checklist for aircraft emergency using proper switch actions and AWC utilization.

(1) Determine nature of emergency.

(2) Establish "knock it off" as appropriate.

(3) Notify proper agencies.

(4) Direct On-Scene Commander squawk emergency as appropriate.

(5) Using proper switch actions, establish emergency fix as appropriate.

Reference(s). TAOC PCL, and Squadron SOP for emergencies.

Prerequisite(s). Academics: T-21

External Syllabus Support. None.

SWD-302 **1.5** **T** **TAOC** **S**

Task. To control a simulated section of fighter aircraft.

Condition(s). Control against a multiple threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to paragraph 0534.1.b.1.b-d.

(2) Correctly identify the following threat formations and tactics:

(a) Formations:

- VIC.
- Champagne.
- Ladder.
- Wall.
- Box/Offset Box.

(b) Tactics - IAW the MCM 3-1.

(3) Utilization of an AWC.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). Academics: T-03, T-10, T-24, T-32, T-60, T-74

External Syllabus Support. None.

SWD-303 **1.5** **T R** **TAOC** **S**

Task. To control a simulated section of fighter aircraft.

Condition(s). On a CAP against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to paragraph 0534.1.b.1.b-d.

(2) Provide threat information using core information/comm format as briefed.

(3) Provide Broadcast control transitioning to Tactical control after the commit or as briefed.

(4) Utilize briefed GCI procedures until training goals have been met.

(5) Initiate and employ TADIL-C/Link 4A as briefed.

(6) Utilization of an AWC.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). SWD-302.

External Syllabus Support. None.

SWD-304 **1.5** **T R** **TAOC** **S**

Task. To control a division of fighter aircraft.

Condition(s). On a CAP, against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to paragraph 0534.1.b.1.b-d.

(2) Provide threat information using core information/comm format as briefed.

(3) Provide Broadcast control transitioning to Tactical control after the commit.

(4) Utilize briefed GCI procedures until training goals have been met or as briefed.

(5) Initiate and employ TADIL-C/Link 4A as briefed.

(6) Utilization of an AWC.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). SWD-303.

External Syllabus Support. None.

SWD-305 4.0 T R E TAOC S

Task. Perform as an AIC.

Condition(s). During a SIMEX.

Standard(s). Demonstrate proficiency in the following areas:

(1) Ensure all AIC DB entries are correct.

(2) Initiate and employ TADIL-C as briefed.

(3) Utilize briefed GCI procedures.

(4) Ensure effective cross-boundary coordination between engagement zones IAW SWD’s direction.

(5) Disseminate the current threat status as appropriate (WCS, ADWC, and SOA to the fighters.

(6) Utilization of an AWC.

(7) Perform appropriate VFS/OS functions.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). SWD-304.

External Syllabus Support. None.

SWD-306 **2.0** **T R** **TAOC** **L**

Task. To control a section of fighter aircraft.

Condition(s). On a CAP, against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to paragraph 0534.1.b.1.b-d.

(2) Provide threat information using core information/comm format as briefed.

(3) Provide Broadcast control transitioning to Tactical control as briefed.

(4) Utilize briefed GCI procedures until training goals have been met.

(5) Initiate and employ TADIL-C as briefed.

(6) Utilization of an AWC.

(7) Must successfully complete TWO missions with aircraft.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s)

(1) SWD-301 and 303.

(2) Academics: T-13, T-44, T-71, T-80, T-81, T-82.

External Syllabus Support. None.

SWD-307 **2.0** **T R** **TAOC** **L**

Task. To control a division of fighter aircraft.

Condition(s). Against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to paragraph 0534.1.b.1.b-d.

(2) Provide threat information using core information/comm format as briefed.

(3) Provide Broadcast control transitioning to Tactical control as briefed.

(4) Utilize briefed GCI procedures until training goals have been met.

(5) Initiate and employ TADIL-C/Link 4A as briefed.

(6) Utilization of an AWC.

(7) Must successfully complete TWO missions with aircraft.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). SWD-304 and 306.

External Syllabus Support. Fighter and Aggressor aircraft.

SWD-308 **2.0** **T R** **TAOC** **L/S**

Task. To control a section/division of fighter aircraft.

Condition(s). During a Point Defense mission against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to paragraph 0534.1.b.1.b-d.

(2) Utilize GCI procedures as briefed or as the tactical situation dictates.

(3) Utilization of an AWC.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). SWD-301, 303.

External Syllabus Support. Fighter and Aggressor aircraft.

SWD-309 **2.0** **T R** **TAOC** **L/S**

Task. To control a section/division of fighter aircraft.

Condition(s). During a Sweep mission against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to paragraph 0534.1.b.1.b-d.

(2) Utilize GCI procedures as briefed or as the tactical situation dictates.

(3) Utilization of an AWC.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). SWD-303.

External Syllabus Support. Fighter and Aggressor aircraft.

SWD-310 **2.0** **T R** **TAOC** **L/S**

Task. To control a section/division of fighter aircraft.

Condition(s). Utilizing Escort/Sweep tactics against an unknown threat, using Broadcast control.

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to paragraph 434.1.b.1.b-d.

(2) Provide Tactical control when requested or when the threat dictates.

(3) Provide threat information using core information/comm format as briefed.

(4) Utilization of an AWC.

(5) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). SWD-301, 303.

External Syllabus Support. Fighter and Aggressor aircraft.

SWD-320 **8.0** **T R** **TAOC** **L/S**

Task. Conduct tactical planning for the Weapons Section.

Condition(s). In a garrison/field environment with appropriate exercise documentation.

Standard(s). Demonstrate proficiency with the following considerations associated with planning an exercise:

(1) Recommend Airspace Control Measures (ACM) to be used within the TAOC Area of Responsibility (AOR).

(2) Develop the destruction area within the TAOC’s assigned air defense sector by ensuring the following:

- Coordination with GBAD assets for FU employment/emplacement and MEZ construction.

- Coordination with higher headquarters for CAP employment and FEZ considerations.

(3) Determine CAP management/control responsibilities and procedures.

(4) Coordinate with the STD for development of handover procedures and symbol management functions.

(5) Coordinate with the SAAWC Staff for reporting of AAW asset status, strip alert procedures and CAP reconstitution.

(6) Establish procedures for target assignments.

(7) Develop alternate/casualty engagement zones based on the threat and friendly AAW systems availability.

(8) Disseminate TAOC and subordinate agency specific ROE procedures/requirements IAW the published ROE.

(9) Develop detailed procedures for IADS employment in decentralized and autonomous modes of control.

(10) Develop the procedures for operation in the semi-automatic and automatic modes of operation with the TAOM.

(11) Conduct a detailed threat analysis.

(12) Prepare the Weapons Section brief IAW the TAOC PCL and MCCRES standards.

(13) Identify Weapons Section communications requirements and assignments.

(14) Identify Weapons DB items.

(15) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s)

(1) SWD-301, 305, 308, 309, 310

(2) Academic: T-01, T-02, T-12, T-27, T-56, T-70, T-84, T-85.

External Syllabus Support. None.

SWD-321 **4.0** **T R** **TAOC** **S**

Task. Perform as an SWD.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Manage the employment of assigned weapons systems IAW established ROE.

(2) Conduct a detailed crew brief developed IAW air operations information received via the TAOC operations brief/MACCS commander's brief. The brief will be conducted IAW the TAOC PCL and MCCRES Standards.

(3) Supervise Weapons related DB entries to include WEZs, Weapons Control Boundaries, TAORs, and special points.

(4) Manage the Weapons Section IAW the SAD’s direction.

(5) Exercise system capabilities to assist in the ID process and the conduct of overall threat evaluation.

(6) Maintain status of assigned weapons systems and ensure critical information is relayed to appropriate agencies.

(7) Maintain SA on WEZ engagements, WCS, ADWC, and SOA and make recommended changes.

(8) Timely requests of Strip Launch Alert (SLA) aircraft as the threat dictates.

(9) Ensure maximum use of data links to minimize voice communications.

(10) Ensure emergency procedures are fully understood and effectively implemented as required.

(11) Compile and forward applicable reports.

(12) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s)

(1) SWD-320.

(2) Academics: T-72, T-73.

External Syllabus Support. None.

SWD-322 16.0 T R E TAOC L

Task. Perform as an SWD.

Condition(s). In an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in SWD-321.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). SWD-321.

External Syllabus Support. External C3 agencies and tactical/support aircraft.

2. **SENIOR AIR DIRECTOR (SAD) TRAINING**

a. **Purpose**. To refine the ADCO's skills required for designation as a Senior Air Director (SAD) and to provide a means for the designated SAD to remain current. Upon completion of this portion of the training syllabus, an Air Defense Control Officer will be 95% trained and Combat Qualified.

b. **General**

(1) **Administrative Notes**

(a) Combat Qualification Training will consist of planning for and execution of a Anti-Air Warfare (AAW) mission in an exercise.

(b) For evaluation purposes, a mission will consist of a brief, execution and debrief of each event.

(2) **Prerequisite**. Combat Capable Stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified ADCO has been absent from an ADCO billet for 16 months or longer. Upon return to an appropriate billet the ADCO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. Core competent TAOC crew.

d. **Academic Training**. TAOC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Live and Simulator Event Training (8 Events, 96.0 Hours)**

SAD-340 **8.0** **T R** **TAOC** **L**

Task. Perform system troubleshooting.

Condition(s). With a faulted TAOM system.

Standard(s). Demonstrate proficiency in the following areas:

(1) Given a list of operator alerts OCU error codes, and printer error codes, demonstrate the ability to interpret them and take appropriate action.

(2) Demonstrate the ability to fault isolate components of the seven major equipment groups of the TAOM to the LRI.

(3) Demonstrate the skills necessary to reconfigure the system around failed units.

(4) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 411.

Prerequisite(s). Academic: T-14, T-16, T-23, T-57.

External Syllabus Support. None.

SAD-341 **24.0** **T R** **TAOC** **L**

Task. Perform as an SAD.

Condition(s). During garrison flight operations.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct a crew brief prior to flight/link operations.

(2) Ensure proper system configuration and DB inputs

(3) Direct and manage crew function.

(4) Records and logs are properly maintained.

(5) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 411.

Prerequisite(s)

(1) SAD-340.

(2) Academic: T-15, T-45, T-65, T-79.

External Syllabus Support. Fighter/aggressor aircraft and/or data link platforms.

SAD-342 **8.0** **T R** **TAOC** **L/S**

Task. Conduct tactical planning for the Command Section.

Condition(s). In a garrison/field environment with appropriate exercise documentation.

Standard(s). Demonstrate proficiency in the following areas:

(1) Prepare the SAD brief IAW the TAOC PCL and MCCRES Standards.

(2) Oversee the planning of the Traffic, Weapons, and Surveillance sections.

(3) Develop system configuration plan.

(4) Plan the emplacement of the TAOC to include radar and EW/C employment.

(5) Supervise DB construction and entry.

(6) Coordinate with the SAAWC in planning overall TAOC employment.

(7) Supervise the conduct of a detailed threat analysis.

(8) Develop a crew watch schedule and change over procedures.

(9) Develop a casualty/degradation plan, and detailed restoration priorities plan.

(10) Ensure comm requirements are identified that will allow for mission accomplishment.

(11) Identify system limitations for input to the ACE Commander.

(12) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 411.

Prerequisite(s). Academic: T-01, T-06, T-19, T-38, T-39, T-63, T-64, T-67, T-68.

External Syllabus Support. None.

SAD-343 **16.0** **T R** **TAOC** **S**

Task. Perform as an SAD.

Condition(s). With a TAOC only exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct a detailed SAD brief IAW the TAOC PCL and MCCRES Standards.

(2) Supervise system configuration and DB input.

(3) Supervise and manage the Traffic, Weapons, and Surveillance Sections.

(4) Identify systems failures/degradations, trouble shoot and perform fault isolation and take corrective action utilizing the SCC.

(5) Execute briefed casualty procedures and implement the restoration plan to include system reconfiguration as required.

(6) Records and logs are properly maintained.

(7) Ensure the SCC is conducting appropriate system maintenance/management and required interfacing with maintenance personnel.

(8) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 411.

Prerequisite(s). SAD-340.

External Syllabus Support. None.

SAD-344 **8.0** **T R** **TAOC** **S**

Task. Perform as an SAD.

Condition(s). During an integrated exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements listed in SAD-341.

(2) Coordinate integration of senior, adjacent, and subordinate agencies and ensuring accurate and timely critical information flow is being conducted.

(3) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 411.

Prerequisite(s). SAD-343.

External Syllabus Support. External C3 agencies.

SAD-345 **8.0** **T R E** **TAOC** **L**

Task. Perform site emplacement of a TAOC.

Condition(s). In garrison/field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Tactical dispersion of the TAOMs.

(2) Effective use of passive defense measures.

(3) Ensure proper cabling of the TAOC.

(4) Echeloning in/out of TAOMs and external units as required.

(5) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 411.

Prerequisite(s). SAD-340, 342.

External Syllabus Support. MHE.

SAD-346 **16.0** **T R** **TAOC** **L**

Task. Perform as an SAD.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all requirements identified in SAD-340 through SAD-345.

(2) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 411.

Prerequisite(s). SAD-341, 344, and 345.

External Syllabus Support. External C3 agencies, MHE.

QUAL-380 **8.0** **T R E** **TAOC** **L**

Task. To be evaluated for qualification and designation as an SWD.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in all the requirements identified in SWD-322.

Reference(s). None.

Prerequisite(s). SWD-322.

External Syllabus Support. External C3 agencies and tactical/support aircraft.

QUAL-381 **8.0** **T R E** **TAOC** **L**

Task. To be evaluated for qualification and designation as an SAD.

Condition(s). None.

Standard(s)

(1) Demonstrate proficiency in all requirements identified in SAD-340 through SAD-346.

(2) Successfully complete 80% of the above listed standards.

Reference(s). None.

Prerequisite(s). SAD-346.

External Syllabus Support. External C3 agencies.

4. **COMBAT QUALIFIED DESIGNATIONS**

a. **Purpose**. To designate the ADCO as a Senior Weapons Director (SWD) and a Senior Air Director (SAD).

b. **General**

(1) **Administrative Notes**

(a) Combat Qualification Training will consist of planning for and execution of a Anti-Air Warfare (AAW) mission in an exercise.

(b) For evaluation purposes, a mission will consist of a brief, execution and debrief of each event.

(2) **Prerequisite(s)**

(a) Completion of the Combat Capable stage of training.

(b) Completion of the MACCS Academic COI (300 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (2 Events, 0.0 Hours)**

DESG-390 0.0 TAOC

Task. Designation as a Senior Weapons Director (SWD).

Condition(s). None.

Standard(s). Completion of Academic COI, performance and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-380.

DESG-391 **0.0** **TAOC**

Task. Designation as a Senior Air Director (SAD).

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-381.

435. FULL COMBAT QUALIFICATION TRAINING

1. SECTOR ANTI AIR WARFARE COORDINATOR (SAAWC) OPERATIONS OFFICER

a. **Purpose**. To refine the ADCO's skills required for designation as a Sector Anti Air Warfare Coordinator (SAAWC) Operations Officer and to provide a means for the designated SAAWC Ops to remain current. Upon completion of this portion of the training syllabus, the ADCO will be 100% trained and Fully Combat Qualified.

b. **General**

(1) **Administrative Notes**

(a) Full Combat Qualification Training will consist of planning for and execution of an Anti-Air Warfare (AAW) mission in an exercise.

(b) For evaluation purposes, a mission will consist of a brief, execution and debrief of each event.

(2) **Prerequisite**. Senior Weapons Director Qualification in the Combat Qualified Stage of training.

(3) **Refresher Training**. Refresher training is required once a full combat qualified ADCO has been absent from an ADCO billet for 16 months or longer. Upon return to an appropriate billet the ADCO will complete the "R" coded events in the 400 level syllabus.

c. **Crew Requirements**. Core competent TAOC crew.

d. **Academic Training**. The MAWTS-1 ASP is designed to support live/simulated training events and will be accomplished as a prerequisite for designation as a SAAWC Ops.

e. **Live and Simulator Event Training (4 Events, 32.0 Hours)**

SAAWC OPS
400 **8.0** **T R** **TAOC** **L**

Task. Perform the duties of the SAAWC Operations Officer

Condition(s). With appropriate exercise documentation.

Standard(s). Demonstrate proficiency with the following considerations associated with planning an exercise.

(1) Prepare the TAOC Operations brief IAW the pertinent air operations information received via MACG Commander's brief, OP Orders, ACP's, ACO's and other applicable directives to allow TAOC crews to brief and execute the plan.

(2) Develop an exercise specific SAAWC crew (Crew Chief, Plotters, GBAD Rep, FW Rep, and Intel Rep) and delineate their responsibilities IAW the squadron SOP's.

(3) Develop the SAAWF requirements/layout IAW SAAWC direction.

(4) Identify and plan the SAAWF communications requirements.

(5) Conduct a detailed time-distance analysis to determine CAP manning/Strip Alert requirements for Fighter aircraft allocated to the Destruction Area.

(6) In addition, conduct detailed tanker planning to correspond to the fighter plan.

(7) Conduct coordination with subordinate, adjacent and higher units for connectiveity/critical information flow requirements, direction and dissemination of individual unit/agency responsibility.

(8) Conduct the detailed planning for the integration of MACCS AAW/C3 Agencies (AEW and TACS/NTDS).

(9) Develop the plan in preparation for assuming the ATACC role.

(10) Successfully complete 80% of the above listed requirements.

Reference(s). Refer to paragraph 411.

Prerequisite. SAAWC Ops Academic COI.

External Syllabus Support. None.

SAAWC OPS 401 **16.0** **T R E** **TAOC** **S**

Task. Execute the duties as SAAWC Operations Officer.

Condition(s). During an integrated MACCS exercise in a garrison/field environment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct a SAAWC brief develop IAW the pertinent air operations information received via a MACG Commanders brief, the SAAWC's direction and applicable orders.

(2) Conduct interface between the TAOC crew and required external agencies to ensure effective/timely flow of critical air defense/airspace management information.

(3) Effectively manage the SAAWC Staff/facility IAW the SAAWC's direction.

(4) Successfully complete 80% of the above listed requirements.

Reference(s). Refer to paragraph 411.

Prerequisite. SAAWC OPS 400.

External Syllabus Support. External C3 Agencies.

SAAWC OPS 402 **16.0** **T R E** **TAOC** **L**

Task. Execute the duties as SAAWC Operations Officer.

Condition(s). During an integrated MACCS exercise in a garrison/field environment.

Standard(s)

(1) Same requirements as SAAWC OPS-401.

(2) Successfully complete 80% of the above listed requirements.

Reference(s). Refer to paragraph 411.

Prerequisite. SAAWC OPS-401.

External Syllabus Support. External C3 Agencies and fighter aircraft.

QUAL 480 **8.0** **T R E** **TAOC** **L**

Task. Execute the duties as SAAWC Operations Officer.

Condition(s). During an integrated MACCS exercise in a garrison/field environment.

Standard(s)

(1) All requirements identified in SAAWC OPS-401.

(2) Successfully complete 80% of the above listed requirements.

Reference(s). None.

Prerequisite. SAAWC OPS-401.

External Syllabus Support. External C3 agencies.

4. **FULL COMBAT QUALIFIED DESIGNATION**

a. **Purpose**. To designate the ADCO as a SAAWC Operations Officer.

b. **General**

(1) **Administrative Notes**

(a) Combat Qualification Training will consist of planning for and execution of a Anti-Air Warfare (AAW) mission in an exercise.

(b) For evaluation purposes, a mission will consist of a brief, execution and debrief of each event.

(2) **Prerequisite(s)**

(a) Completion of the Full Combat Qualified stage of training.

(b) Completion of the MACCS Academic COI (400 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (1 Event, 0.0 Hours)**

DESG 490 0.0 TAOC

Task. To be designated a SAAWC Operations officer.

Condition(s). None.

Standard(s). Completion of Academic COI and performance/evaluated events.

Reference(s). None.

Prerequisite. SAAWC OPS-480 and SAD DESG-391.

436. SPECIAL SKILLS QUALIFICATION TRAINING

1. **AIR INTERCEPT INSTRUCTOR QUALIFICATION TRAINING**

a. **Purpose**. To designate the ADCO as an Air Intercept Controller Instructor (AICI).

b. **General**

(1) **Administrative Notes**

(a) During the AICI training a qualified/designated AIC will act as the "student" AIC for the AICI under instruction.

(2) **Prerequisite**. SWD 301-310.

c. **Crew Requirements**. SAD, SCC, AICI, and AIC.

d. **Academic Training**. TAOC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Live and Simulator Event Training (3 Events, 22 Hours)**

AICI-500 **6.0** **T R E** **TAOC** **S/L**

Task. Develop instruction techniques.

Condition(s). A simulation capable system and classroom facilities.

Standard(s). Demonstrate the ability to:

(1) Conduct a comprehensive brief with an AIC to include:

- T&R Requirements.
- Mission game plan.
- Previously identified weak areas.

(2) Conduct a comprehensive debrief to include:

- The conduct of the mission with an emphasis on comm priority.
- Lessons learned.
- Establishing AIC goals and training requirements.

(3) Instruct the AIC on the six phases of an intercept.

(4) Instruct the AIC on air control communication.

(5) Successfully complete 80% of the above listed requirements.

Reference(s). MCM 3-1, TOPGUN Manual, MDTC POI.

Prerequisite. SWD-305, 307, 308, 309, 310.

External Syllabus Support. MAWTS-1 ASP and Tactics Trainer.

AICI-501 6.0 T R E TAOC L

Task. Instruct section and division tactics.

Condition(s). An operational TAOC system with RADARs and aircraft.

Standard(s). Demonstrate proficiency as an instructor in the following areas:

(1) Instruct the following intercept tactics:

- Section Tactics

- Division Tactics

(2) Instruct intercept control.

(3) Instruct the student on the six phases of an intercept.

(4) Instruct air control communication.

(5) Instruct the student on the use of the Tactics Trainer.

Reference(s). MCM 3-1, TOPGUN Manual, MDTC POI.

Prerequisite. AICI-500.

External Syllabus Support. MAWTS-1 ASP and Tactics Trainer.

AICI-502 16.0 T R E TAOC L

Task. Instruct, monitor, and debrief an AIC.

Condition(s). An operational TAOC system with radars, aircraft, and classroom facilities.

Standard(s). Demonstrate proficiency as an instructor in:

(1) The conduct of a comprehensive flight brief with the AIC prior to controlling the mission.

(2) Monitoring the AIC during the mission focusing on evaluating the students performance for debriefing purposes ensuring safety of flight considerations are adhered to by the AIC.

(3) The conduct of a comprehensive debrief focusing on air control comm and tactical lessons learned.

Reference(s). MCM 3-1, TOPGUN Manual, MDTC POI.

Prerequisite. AICI-501.

External Syllabus Support. Fighter and aggressor aircraft and the MAWTS-1 ASP and Tactics Trainer.

2. **INSTRUCTOR DESIGNATIONS**

a. **Purpose**. To designate the ADCO as an AICI, MDTI/SFTI, and/or WTI.

b. **General**

(1) **Administrative Notes**. For evaluation purposes, a mission will consist of a brief, execution and debrief of each event.

(2) **Prerequisite(s)**

(a) AIC designation for AICI.

(b) MAWTS-1 WTI resident COI for designation as a WTI.

(c) For MDTI/SFTI completion of appropriate COI and performance events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (3 Events, 0.0 Hours)**

DESG-590 0.0 TAOC

Task. Designate the ADCO as an AICI.

Condition(s). None.

Standard(s). Completion of all AICI performance events.

Reference(s). None.

Prerequisite. AICI-502.

External Syllabus Support. None.

DESG-591 0.0 TAOC

Task. Designate the ADCO as a WTI.

Condition(s). None.

Standard(s). Satisfactory completion of WTI COI and performance events.

Reference(s). None.

Prerequisite. None.

External Syllabus Support. None.

DESG-592 0.0 TAOC

Task. Designate the ADCO as an MDTI/SFTI.

Condition(s). None.

Standard(s). Satisfactory completion of the appropriate COI and performance events.

Reference(s). None.

Prerequisite. None.

External Syllabus Support. None.

440. SPECIAL TRAINING REQUIREMENTS

mARINE dIVISION tACTICS cOURSE (MDTC)	MAWTS-1
Strike Fighter Tactics Instructors Course (TOPGUN)	NSAWC

450. EXPENDABLE ORDNANCE REQUIREMENTS. None.

460. PROFICIENCY INTERVALS. Table 4-8, 4-9, and 4-10 contain the proficiency intervals for the combat readiness, combat qualification, and full-combat qualification levels.

Table 4-8. ADCO Proficiency Interval for the Combat Readiness Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	200	2	-	0.35	X	X	X		L
	201	3	-	0.35	X	X	X		L
	202	3	-	0.35	X	X	X		L
	203	1.5	-	0.35	X	X	X		L
STD	210	4	-	0.7	X				S
	211	4	-	0.7	X		X	X	L/S
	212	8	24	0.7	X		X		L/S
	213	8	24	0.7	X		X	X	S
	214	8	24	0.7	X		X	X	L
SID	230	4	-	0.9	X		X		S/L
	231	8	36	0.9	X		X		L/S
	232	8	36	0.9	X		X		L/S
	233	4	12	0.9	X		X	X	L/S
	234	8	24	0.9	X		X		L/S
	235	8	24	0.9	X		X		L
	236	8	24	0.9	X		X	X	L/S
	237	8	24	0.9	X		X	X	L
	238	4	24	0.9	X		X		L/S
QUAL	280	8	36	1	X	X	X		
	281	8	36	1	X		X	X	L
DESG	290	0	-	0					
	291	0	-	0					

Table 4-9. ADCO Proficiency Interval for the Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SWD	300	4	-	0.5	X		X		L/S
	301	0.5	12	0.5	X		X		S
	302	1.5	12	0.5	X				S
	303	1.5	12	0.5	X		X		S
	304	1.5	12	0.5	X		X		S
	305	4	12	0.5	X		X	X	S
	306	4	24	0.8	X		X		L
	307	4	24	0.8	X		X		L
	308	2	24	0.8	X		X		L/S
	309	2	24	0.8	X		X		L/S
	310	2	24	0.8	X		X		L/S
	320	8	12	0.9	X		X		L/S
	321	4	12	0.9	X		X		S
	322	16	12	1	X		X	X	L
SAD	340	8	12	0.9	X		X		L
	341	24	12	0.9	X		X		L
	342	8	12	0.9	X		X		L/S
	343	16	12	0.9	X		X		S
	344	8	12	1	X		X		S
	345	8	12	1	X		X	X	L
	346	16	24	1	X		X		L
QUAL	380	8	36	1.6	X		X	X	L
QUAL	381	8	36	2	X		X	X	L
DESG	390	0	-	0					
	391	0	-	0					

Table 4-10. ADCO Proficiency Interval for the Full-Combat Readiness Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SAAWC OPS	400	8	12	1	X		X		L
SAAWC OPS	401	8	12	1	X		X	X	S
SAAWC OPS	402	8	12	1	X		X	X	L
QUAL	480	8	36	2	X		X	X	L
DESG	490	0	-	0					

470. <u>EVENT UPDATE CHAINING</u>. Table 4-11 and 4-12 contain the event update chaining for the ADCO.

Table 4-11. ADCO Combat Ready Training Event Update Chaining

EVENTS		EVENTS UPDATED
200		
201		
202		
203		
210		
211		210
212		
213		210, 212
214		210, 211, 212, 213
230		
231		
232		
233		
234		
235		231, 232
236		230, 231, 232, 233, 234, 235
237		230, 231, 232, 233, 234, 235, 236

EVENTS		EVENTS UPDATED
238		
280		210, 211, 212, 213, 214
281		230, 231, 232, 233, 234, 235, 236, 237, 238
290		
291		

Table 4-12. ADCO Combat Ready and Full-Combat Ready Training Event Update Chaining

EVENTS		EVENTS CHAINED
300		
301		
302		
303		302
304		302, 303
305		301, 302, 303, 304
306		302, 303
307		302, 303, 304
308		302, 303, 304, 306, 307
309		302, 303, 304, 306, 307
310		302, 303, 304, 306, 307
320		
321		320
322		320, 321
340		200, 201, 202, 203
341		200, 201, 202, 203, 340
342		200, 202, 212, 234, 320
343		200, 201, 202, 203, 212, 234, 320, 340, 342
344		200, 201, 202, 203, 212, 234, 320, 340, 342, 343
345		200, 201, 202, 203, 212, 234, 320, 340, 342
346		200, 201, 202, 203, 212, 234, 320, 340, 341, 342, 343, 344, 345
380		320, 321, 322
381		200, 201, 202, 203, 212, 234, 280, 281, 320, 321, 322, 340, 341,
		342,343, 344, 345, 346, 380

EVENTS		EVENTS CHAINED
390		
391		
400		212, 234, 320, 342
401		212, 234, 320, 342, 400
402		212, 234, 320, 342, 400, 401
480		212, 234, 320, 342, 400, 401, 402
490		
500		
501		
502		500, 501
590		
591		
592		

TACTICAL AIR DEFENSE CONTROLLER (TADC)
(MOS 7236)

	PARAGRAPH	PAGE
INTRODUCTION	500	5-01
CORE COMPETENCIES/SKILLS	501	5-01
SUMMARY/INDEX OF LIVE/SIMULATOR EVENTS	502	5-03
UNIT TRAINING POLICIES	503	5-07
TADC TRAINING PROGRESSION PHILOSOPHY	504	5-08
TRAINING PROGRESSION MODEL FOR TADC	505	5-08
PROGRAMS OF INSTRUCTION (POI) FOR TADC	506	5-10
SPECIAL DESIGNATIONS	507	5-10
GROUND/ACADEMIC TRAINING	510	5-10
TRAINING REFERENCES	511	5-15
LIVE/SIMULATOR EVENT TRAINING: TADC	520	5-16
LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS	530	5-16
COMPONENTS OF A T&R EVENT	531	5-17
COMBAT CAPABLE TRAINING	532	5-19
COMBAT READY TRAINING	533	5-19
COMBAT QUALIFICATION TRAINING	534	5-30
FULL-COMBAT QUALIFICATION TRAINING	535	5-38
INSTRUCTOR TRAINING	536	5-42
SPECIAL SKILLS TRAINING AND DESIGNATION	537	5-46
SPECIAL TRAINING REQUIREMENTS	540	5-51
EXPENDABLE ORDNANCE REQUIREMENTS	550	5-51
PROFICIENCY INTERVALS	560	5-51
EVENT UPDATE CHAINING	570	5-54

500. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop UNIT warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective Training and Readiness (T&R) program is the first step in providing the MAGTF Commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, unit training managers can construct and execute an effective training plan which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training to satisfy the training requirements of Commanders at all levels in order to accomplish their wartime mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and form the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the Systems Approach to Training used in T&R development and Marine Corps UTM principles.

3. The Marine Corps Combat Readiness Evaluation System (MCCRES) and the T&R program are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills which enable units to satisfy the requirements as outlined in their applicable volume of the MCCRES.

501. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills which support the Mission Essential Tasks (METL) derived from FMFM 5-1 and T/O mission statements, which are realistically expected to be assigned in combat.

2. **MISSION**. Detect, identify and control the intercept of hostile aircraft and missiles and to provide navigational assistance to friendly aircraft in the accomplishment of support missions.

3. **MISSION ESSENTIAL TASK LIST**

a. Conduct amphibious/expeditionary operations to include the capability to phase control ashore.

b. Conduct air surveillance.

c. Conduct combat airspace management.

d. Control surface and airborne weapons systems.

e. Conduct air and theater missile defense weapons systems management.

f. Integrate with MAGTF, joint, and combined airspace command and control systems.

g. Conduct combat operations in an NBC environment.

4. **TAOC CORE CAPABILITY**

a. A core capable TAOC provides command, traffic, weapons, and surveillance sections, and is able to sustain minimum performance on a daily basis during sustained contingency/combat operations. The extent to which a core capable TAOC is able to conduct extended operations or simultaneous TAOC and EW/C operations is manning-level dependent.

b. **TAOC DETACHMENT CREW CONFIGURATION**

(1) Senior Air Director
(1) Senior Weapons Director
(2) Air Intercept Controller
(1) Missile Controller
(2) Assistant Weapons Controller
(1) Senior Traffic Director
(1) Tactical Air Traffic Controller
(1) Surveillance Identification Director
(2) Surveillance Operator
(1) Data Link Coordinator
(1) Systems Configuration Coordinator

502. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. COMBAT CAPABLE TRAINING. The Combat Capable Training summary is contained in the MCCES POI for the TADC.

2. COMBAT READY TRAINING. Table 5-1 contains a listing of the combat readiness training events and associated page numbers.

Table 5-1. Combat Readiness Training List

EVENT	TASK	PAGE
GBAD-215	Perform MC functions	5-19
GBAD-216	Perform MC functions	5-20
GBAD-217	Perform MC functions	5-21
AIC-220	Take appropriate action for an aircraft emergency	5-22
AIC-221	Control a simulated section of fighter aircraft	5-23
AIC-222	Control a section of fighter aircraft	5-24
AIC-223	Control a division of fighter aircraft	5-24
AIC-224	Perform as an AIC	5-25
AIC-230	Control a section of fighter aircraft	5-25
AIC-231	Control a division of fighter aircraft	5-26
AIC-232	Control a section/division of fighter aircraft	5-26
AIC-233	Control a section/division of fighter aircraft	5-27
AIC-234	Control a section/division of fighter aircraft	5-27
AIC-235	Perform as an AIC in an exercise	5-28
QUAL-280	Evaluate the TADC for qualification as a Missile Controller	5-28
QUAL-281	Evaluate the TADC for qualification as an AIC	5-29
DESG-290	Designation as a Weapons Controller	5-30

3. COMBAT QUALIFICATION TRAINING. Table 5-2 contains a listing of the combat qualification training events and associated page numbers.

Table 5-2. Combat Qualification Training List

EVENT	TASK	PAGE
STD-300	Conduct tactical planning for the Traffic Section	5-30
STD-301	To perform as an STD	5-31
STD-302	To perform as an STD	5-32
SID-310	Conduct tactical planning for the Surveillance Section	5-33
SID-311	Maximize RADAR performance	5-34
SID-312	Perform as an SID	5-34
SID-313	Perform as a SID	5-35
SID-314	Perform Electronic Warfare (EW) operations	5-36
QUAL-380	Evaluate the TADC for qualification as an STD	5-36
QUAL-381	Evaluate the TADC for qualification as an SID	5-37
DESG-390	Designate the TADC a Senior Traffic Director	5-38
DESG-391	Designate the TADC a Surveillance Identification Director	5-38

4. FULL COMBAT QUALIFICATION TRAINING. Table 5-3 contains a listing of the full combat qualification training events and associated page numbers.

Table 5-3. Full Combat Qualification Training List

EVENT	TASK	PAGE
SWD-400	Conduct tactical planning for the Weapons Section	5-39
SWD-401	Perform as an SWD	5-40
SWD-402	Perform as an SWD	5-41
QUAL 480	Evaluate the TADC for qualification as an SWD	5-41
DESG 490	Designate the TADC a Senior Weapons Director	5-42

5. INSTRUCTOR QUALIFICATION TRAINING. Table 5-4 contains a listing of the instructor qualification training events and associated page numbers.

Table 5-4. Instructor Qualification Training List

EVENT	TASK	PAGE
AICI-500	Develop instruction techniques	5-43
AICI-501	Instruct section and division tactics	5-44
AICI-502	Instruct, monitor, and debrief an AIC	5-44

EVENT	TASK	PAGE
DESG-590	Designate the TADC as an AICI	5-45
DESG-591	Designate the TADC as a MEWTI	5-45
DESG-592	Designate the TADC as a MDTI	5-46

6. SPECIAL SKILLS TRAINING AND DESIGNATION. Table 5-5 contains a listing of the special skills training and designation events and associated page numbers.

Table 5-5. Special Skills Training and Designation

EVENT	TASK	PAGE
SAD-600	Conduct system troubleshooting	5-46
SAD-601	Perform as an SAD	5-47
SAD-602	Conduct tactical planning for the Command Section	5-47
SAD-603	Perform as an SAD	5-48
SAD-604	Perform as an SAD	5-49
SAD-605	Perform site emplacement of a TAOC	5-49
SAD-606	Perform as an SAD	5-50
QUAL-680	Evaluate the TADC for qualification as an SAD	5-50
DESG-690	Designate the TADC as an Senior Air Director (SAD)	5-51

6. OPERATOR CORE SKILLS. Core skills are depicted in the following matrix (table 5-6) and directly support the METL for each Unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 5-6. Core Skills

METLS							
EVENT CODE	A	B	C	D	E	F	G
GBAD-215				X	X		
GBAD-216				X	X		
GBAD-217				X	X		
AIC-220			X	X			
AIC-221			X	X			
AIC-222			X	X			
AIC-223			X	X			
AIC-224			X	X			
AIC-230	X		X	X			
AIC-231	X		X	X			

METLS							
EVENT CODE	**A**	**B**	**C**	**D**	**E**	**F**	**G**
AIC-232	X		X	X			
AIC-233	X		X	X			
AIC-234	X		X	X			
AIC-235	X		X	X			
MC QUAL-280				X	X		
AIC QUAL-281			X	X			
STD-300	X		X			X	
STD-301			X			X	
STD-302			X			X	
SID-310	X	X				X	
SID-311		X					
SID-312	X	X				X	
SID-313	X	X				X	
SID-314	X	X					
STD QUAL-380	X		X			X	
SID QUAL-381	X	X				X	
CORE PLUS							
SWD-400	X		X	X	X	X	
SWD-401			X	X	X	X	
SWD-402			X	X	X	X	
SWD QUAL-480	X		X	X	X	X	
AICI 500				X			
AICI 501				X			
AICI 502				X			
AICI 503				X			
AICI 504				X			
SAD-600	X	X	X	X	X	X	X
SAD-601	X	X	X	X	X	X	
SAD-602	X	X	X	X	X	X	
SAD-603	X	X	X	X	X	X	
SAD-604	X	X	X	X	X	X	
SAD-605	X						
SAD-606	X	X	X	X	X	X	

METLS							
EVENT CODE	A	B	C	D	E	F	G
SAD QUAL-680	X	X	X	X	X	X	

503. UNIT TRAINING POLICIES

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Squadron and battalion commanding officers will ensure that this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation unit in combat lies at the heart of the T&R program. Unit readiness and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform those critical skills required in combat is essential.

3. Commanders shall ensure that all tactical training is conducted to a MCCRES standard. The MCCRES, as outlined in MCO P3501.1, is the unit training standard, and all syllabus events shall be tailored to meet MCCRES requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors which all commanders must address include, but are not limited to:

a. **Efficiency**. Time and resources expended are measurements for training efficiency. Commanders must ensure that all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. **Individual Differences**. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. **Decentralization of Training**. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. Commanders shall provide personnel the opportunities to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit.

6. **Risk Management**. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. **MACCS Integrated System Training**. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated airspace command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEX's should focus on the establishment of necessary communications and datalinks between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Information Link capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

504. TACTICAL AIR DEFENSE CONTROLLER TRAINING PROGRESSION PHILOSOPHY.

The purpose of this syllabus is to develop and refine those skills required for the TADC to function as a weapons controller with progression into a director position within a core capable TAOC crew. The progression of the TADC through the syllabus has been tailored towards that end. With the initial focus on weapons control skills and the opportunity to progress to the SWD position, the experienced TADC is more effectively employed. It is incumbent upon the squadron commander to ensure that each event is completed in accordance with each performance standard established for that event.

505. TACTICAL AIR DEFENSE CONTROLLER TRAINING PROGRESSION MODEL

1. The Training Progression Model for the Tactical Air Defense Controller (TADC) is depicted in figure 5.1.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those qualifications an individual reports to the unit with (accession qualifications) after completion of the MOS-qualifying school. The highest tier of the progression model will contain those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable tier will in most cases be accomplished at the completion of initial MOS skills training. With successful completion of the combat capable tier, unit personnel are assigned basic MOS qualification and progress to the Combat Ready tier.

4. On the Combat Ready tier, qualifications that are normally made available to fairly inexperienced personnel will be delineated. This tier should take the individual who has completed initial MOS skills training and make him or her proficient in core competencies. With successful completion of the combat ready tier, unit personnel move to the Combat Qualification tier.

5. The Combat Qualification tier will be that portion of the model that produces combat leaders and fully qualified crewmembers. The personnel that are being trained in the combat qualification tier are those men/women a commanding officer feels are capable of directing the actions of subordinates during wartime scenarios.

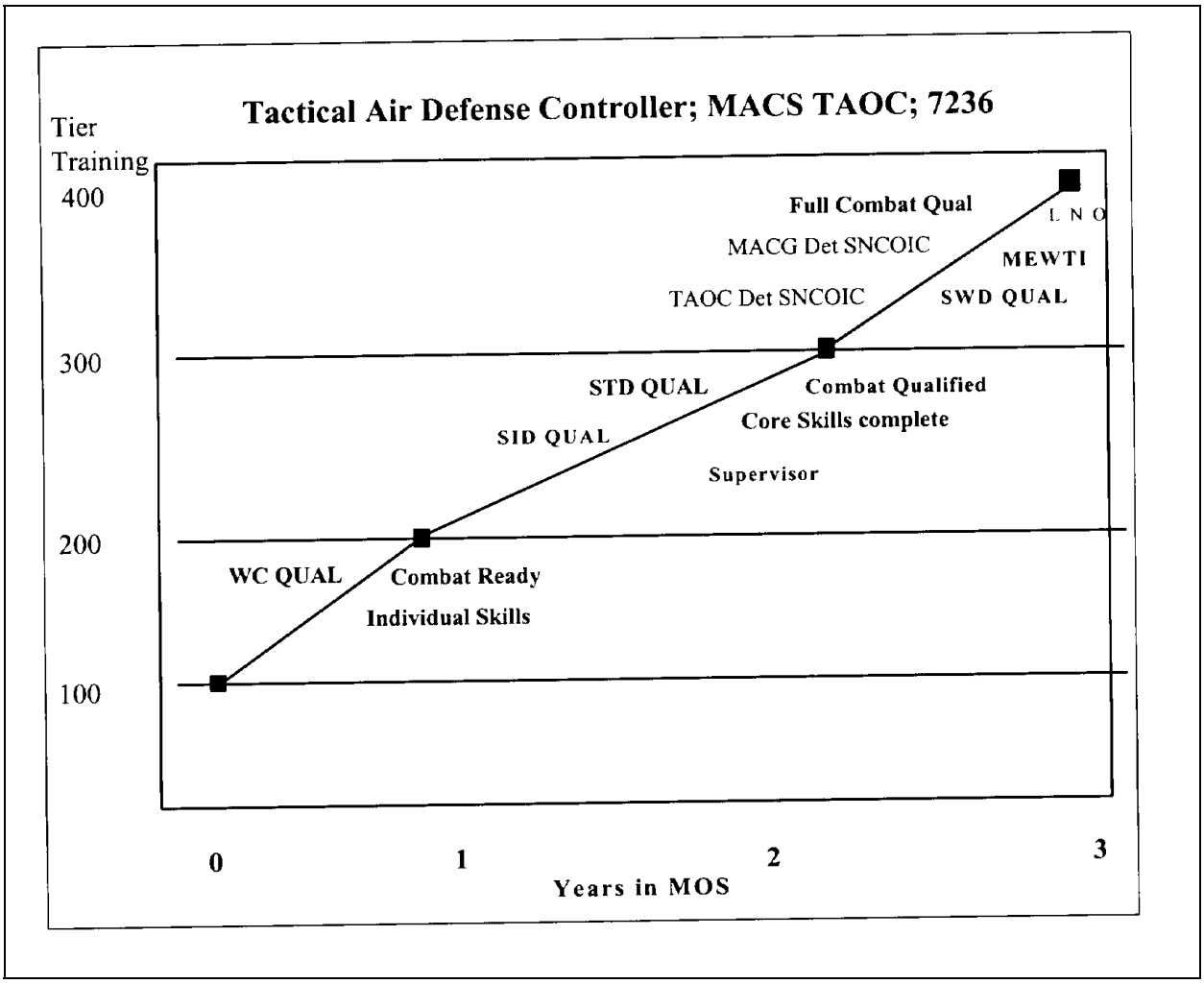


Figure 5.1. Tactical Air Defense Controller Training Progression Model

6. The Special Skill Qualification tier will contain special skills, and qualifications. These skills or qualifications are not prerequisite to combat qualification or the ability to function as combat leaders, but are those for which a certain number of trained individuals or crews must be maintained to accomplish special missions or tasks.

a. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the commanding officer with oversight of the unit training program.

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification of "combat capable" and "combat ready" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

506. PROGRAMS OF INSTRUCTION (POI) FOR TADC

1. **BASIC TADC**

WEEKS	COURSE/PHASE	ACTIVITY
6	TACTICAL AIR DEFENSE CONTROLLER COURSE (TADCC)	MCCES

2. TADC transition and refresher training will be accomplished at the individual MACS.

507. SPECIAL DESIGNATIONS

1. **Weapons Controller (WC) Designation**. A Tactical Air Defense Controller (TADC) is WC designated after having completed the required events of the Combat Ready phase of the appropriate T&R (ITS) syllabus. The TADC shall be certified by a Full Combat Qualified TAOC SAD, TAOC WTI/MEWTI and designated by the unit Commanding Officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

2. **Surveillance Identification Director (SID) Designation**. A Tactical Air Defense Controller (TADC) is SID designated after having completed the required events of the Combat Qualified phase of the appropriate T&R (ITS) syllabus. The TADC shall be certified by a Full Combat Qualified TAOC SAD, TAOC WTI/MEWTI and designated by the unit Commanding Officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

3. **Senior Traffic Director (STD) Designation**. A Tactical Air Defense Controller (TADC) is STD designated after having completed the required events of the Combat Qualified phase of the appropriate T&R (ITS) syllabus. The TADC shall be certified by a Full Combat Qualified TAOC SAD, TAOC WTI/MEWTI and designated by the unit Commanding Officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

4. **Senior Weapons Director (SWD) Designation**. A Tactical Air Defense Controller (TADC) is SWD designated after having completed the required events of the Full Combat Qualification phase of the appropriate T&R (ITS) syllabus. The TADC shall be certified by a Full Combat Qualified TAOC SAD, TAOC WTI/MEWTI and designated by the unit Commanding Officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

5. **Senior Air Director (SAD) Designation**. A Tactical Air Defense Controller (TADC) is SAD designated after having completed the required events of the Full Combat Qualification phase of the appropriate T&R (ITS) syllabus. SAD designation is a special qualification for the TADC. The TADC shall be certified by a Full Combat Qualified TAOC SAD, TAOC WTI and designated by the unit Commanding Officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

510. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 5-7 into their training plans. Where indicated, standardized academic

training materials exist and may be obtained from the activity listed as the sponsor.

Table 5-7. Recommended T&R Lectures

Lecture Code	Lecture Title	Sponsor
	200 Level: Combat Ready Training	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES
A-03 A-04 A-05 A-06 A-07 A-08	The Six Functions of Marine Aviation • Control of Aircraft & Missiles • Offensive Air Support • Assault Support • Electronic Warfare • Aerial Reconnaissance • Anti-Air Warfare	MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	MCCES
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	MAWTS-1 ASP
A-14	MACCS Communications	MAWTS-1 ASP
A-15	CTAPS Overview	MAWTS-1 ASP
A-16	Data Link Symbology	MCCES
A-17	Manual Crosstell procedures	MCCES
A-18	Encryption & Authentication Procedures	MCCES
A-19	COMSEC & Crypto handling	MCCES

	300 Level: Combat Qualified Training	
B-01	ASM/SSM Threat	MAWTS-1 ASP
B-02	Fixed Wing Threat	MAWTS-1 ASP
B-03	Rotary Wing Threat	MAWTS-1 ASP
B-04	REC Threat	MAWTS-1 ASP
B-05	Ground Threat	MAWTS-1 ASP
B-06	AOR Specific Threat & OP PLANS	Local MACG
B-07 B-08 B-09 B-10 B-11 B-12 B-13	MACCS Agencies • TACC • TAOC • DASC • ATC Detachment • LAAD Bn • Air Defense Detachment • MWCS	MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP MAWTS-1 ASP

Lecture Code	Lecture Title	Sponsor
B-14	AEW	MAWTS-1 ASP
B-15	MACCS/Joint Data link	MAWTS-1 ASP
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1 ASP
B-18	Airspace Planning/Management(Combat Airspace)	MAWTS-1 ASP
B-19	Tanker Management	MAWTS-1 ASP
B-20	Armed Reconnaissance	MAWTS-1 ASP
B-21	UAV Programs & Integration	MAWTS-1 WTI *
B-22	Link Architecture & Procedures	MAWTS-1 WTI *
B-23	CSAR/TRAP	MAWTS-1 ASP
B-24	NEO Execution	MAWTS-1 ASP
B-25	Execution Checklist	MAWTS-1 WTI *
	400 Level: Full Combat Qualified Training	
C-01	Integrated Combat Airspace Command & Control ($ICAC^2$)	MAWTS-1 ASP
C-02	Joint Air Operations	MAWTS-1 ASP
C-03	Theater Missile Defense	MAWTS-1 WTI *
C-04	MACCS in support of Special Operations	MAWTS-1 WTI *
C-05	ROE Development	MAWTS-1 WTI *
C-06	SIS Aircraft	MAWTS-1 ASP
C-07	JTAO Procedures	MCCES

(*) The lecture code is standardized throughout all MACCS related syllabi, and are used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may not be listed sequentially.

2. Academic training listed in table 5-8 is recommended for personnel assigned to the TACC.

Table 5-8. TACC ACADEMIC SYLLABUS

CODE	CLASS TITLE	SECTION	7210	7236	7234
T-01	AAW DOCTRINE	WEPS/AWC	X	X	X
T-02	ADC RESPONSIBILITIES	WEPS	X	X	
T-03	AI CONTROL AND TACTICAL TERMINOLOGY	WEPS/AWC	X	X	X
T-04	AIR DEFENSE SECTORS	WEPS/AWC	X	X	X
T-05	AIRSPACE MANAGEMENT	TRAF	X	X	
T-06	ATACC REQUIREMENTS	SAD	X	X	
T-07	ATACC TDC RESPONSIBILITIES	SURV	X	X	
T-08	ATDL-1	SURV	X	X	
T-09	ATOs AND FRAGs	TRAF/SURV	X	X	X
T-10	BRIEFING AND DEBRIEFING	WEPS	X	X	

CODE	CLASS TITLE	SECTION	7210	7236	7234
T-11	C4I SYSTEMS	TRAF	X	X	
T-12	CAP MANAGEMENT	WEPS	X	X	
T-13	COMM BREVITY	WEPS	X	X	
T-14	COMPONENT FAULT STATUS	SAD/SCC	X	X	X
T-15	CREW COORDINATION	SAD/SCC	X	X	X
T-16	C&M PANEL	SAD/SCC	X	X	X
T-17	DATA LINK TROUBLESHOOTING	SURV/DLC	X	X	X
T-18	DCE	SURV	X	X	X
T-19	ECHELON OPERATIONS	SAD	X	X	
T-20	EMCON PLANNING AND IMPLEMENTATION	SURV	X	X	
T-21	EMERGENCY PROCEDURES	TRAF/WEPS	X	X	X
T-22	EP CAPABILITIES	SURV/SO	X	X	X
T-23	ERROR CODES	SURV/SO	X	X	X
T-24	FIGHTER MISSIONS	WEPS	X	X	
T-25	GBAD CONFIGURATION	WEPS	X	X	
T-26	GBAD VOICE CONTROL PROCEDURES	WEPS	X	X	
T-27	IADS EMPLOYMENT	WEPS	X	X	
T-28	IDENTIFICATION PROCEDURES	SURV/SO	X	X	X
T-29	INSTRUCTOR BRIEFING PROCEDURES	AICI	X	X	
T-30	INSTRUCTOR DEBRIEFING	AICI	X	X	
T-31	INSTRUCTOR DOCUMENTATION	AICI	X	X	
T-32	INTERCEPT CONTROL	WEPS	X	X	
T-33	INTERFACE COORDINATION	SURV	X	X	
T-34	JRCC OPERATIONS	TRAF	X	X	
T-33	JTAO DATA LINK OPERATIONS	SURV/DLC	X	X	X
T-36	LINK OPS MESSAGES	SURV/DLC	X	X	X
T-37	MANUAL CROSS-TELL	SURV/WEPS	X	X	X
T-38	OPLANS & OPORDERS	SAD	X	X	
T-39	PHASING CONTROL ASHORE	SAD	X	X	
T-40	RADAR EMPLOYMENT & PERFORMANCE	SURV	X	X	
T-41	RADIO SETUP	SURV/SCC	X	X	X
T-42	RADIO SETUP, RPP/SEPP	TRAF/SCC	X	X	X
T-43	REMOTE RADAR	SURV	X	X	
T-44	RULES OF ENGAGEMENT (ROE)	WEPS	X	X	
T-45	SCC RESPONSIBILITIES	SAD/SCC	X	X	X
T-46	SIM OPERATOR (BUG PILOT)	SIM	X	X	X
T-47	SIM SCENARIO REQUIREMENTS	SIM	X	X	X

CODE	CLASS TITLE	SECTION	7210	7236	7234
T-48	SIM SCENARIO TROUBLESHOOTING	SIM	X	X	X
T-49	SIMULATION MASTER RESPONSIBILITIES	SIM	X	X	X
T-50	SIMULATION PROGRAMMING	SIM	X	X	X
T-51	SIMULATION SETUP	SIM	X	X	X
T-52	SURVEILLANCE SECTION BRIEF	SURV	X	X	
T-53	SURVEILLANCE SECTION COMMUNICATIONS	SURV/SO	X	X	X
T-54	SURVEILLANCE SECTION RESPONSIBILITIES	SURV/SO	X	X	X
T-55	SU/SENSOR REGISTRATION	SURV	X	X	
T-56	SWD COORDINATION REQUIREMENTS	WEPS	X	X	
T-57	SYSTEM TROUBLESHOOTING	SAD/SCC	X	X	X
T-58	TADIL-A	SURV/DLC	X	X	X
T-59	TADIL-B/NATO LINK 1	SURV/DLC	X	X	X
T-60	TADIL-C OPERATIONS	TRAF	X	X	X
T-61	TADIL-J	SURV/DLC	X	X	X
T-62	TANKER MANAGEMENT	TRAF	X	X	X
T-63	TAOC COMMUNICATIONS	SAD/SCC	X	X	X
T-64	TAOC CONFIGURATION CASUALTY MODES	SAD/SCC	X	X	X
T-65	TAOC CREW BRIEF	SAD	X	X	
T-66	TAOC DATA LINK CAPABILITIES	SURV/DLC	X	X	X
T-67	TAOC EMPLOYMENT & POWER REQUIREMENTS	SAD	X	X	
T-68	TAOC REPORTS/FORMATS	SAD/SCC	X	X	X
T-69	TDS PLATFORMS	SURV/DLC	X	X	X
T-70	THEATER AIR GROUND SYSTEM	WEPS	X	X	
T-71	THREAT AIRCRAFT AND MISSILES	WEPS/AWC	X	X	X
T-72	THREAT GROUND AND NAVAL FORCES	WEPS/AWC	X	X	X
T-73	THREAT RANKING & WEAPONS ASSIGNMENT	WEPS/AWC	X	X	X
T-74	THREAT TACTICS	WEPS	X	X	
T-75	TRAFFIC BRIEF	TRAF	X	X	
T-76	TRAFFIC COMM PROCEDURES	TRAF	X	X	X
T-77	TRAFFIC SECTION RESPONSIBILITIES	TRAF	X	X	X
T-78	TRAP/SAR	TRAF	X	X	X
T-79	T&R PROGRAM	SAD	X	X	
T-80	US/ALLIED AIRCRAFT AND MISSILES	WEPS/AWC	X	X	X
T-81	US/ALLIED GROUND AND NAVAL FORCES	WEPS/AWC	X	X	X
T-82	WEAPONS COMMUNICATIONS	WEPS/AWC	X	X	X
T-83	WEAPONS DATA LINK ORDERS	WEPS/AWC	X	X	X
T-84	WEAPONS MODES OF OPERATIONS	WEPS	X	X	
T-85	WEAPONS SECTION BRIEF	WEPS	X		
T-86	WEAPONS SECTION RESPONSIBILITIES	WEPS/AWC	X	X	X

CODE	CLASS TITLE	SECTION	7210	7236	7234
T-87	WEATHER	TRAF	X	X	X

3. External academic courses of instruction available to complete the syllabus are listed below.

COURSE	ACTIVITY
Marine Enlisted Weapons and Tactics Instructors (MEWTI) Course	MAWTS-1, MCAS Yuma AZ
Multi-TADIL Advanced Joint Interface Course (MAJIC)	FORCECOM
JTIDS Course	FORCECOM
JTIDS Network Design & System Management (JNDSM)	FORCECOM
Joint Aerospace Computer Applications Course	FORCECOM
Joint Aerospace Command and Control Course (JACAC)	FORCECOM
Military Airspace Management Course	FORCECOM

511. TRAINING REFERENCES

1. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

TITLE	
NWP 22	Air Control in Amphibious Operations
NWP 32	Anti-Air Warfare
MCWP 3-2	Aviation Operations
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook
MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.12	MWCS Handbook
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 6-18	Techniques and Procedures for Fire Support Coordination
OPNAVINST 3710	NATOPS MANUAL
TM-11240 Series	Motor Transport Technical Characteristics
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
JtDivO P3120.23	FSC SOP
ACP-125	Allied Communication Publication
DASC PCL	DASC Pocket Checklist
Joint Pub	JTAO Handbook (Purple book)
Joint Pub 3-56.1	Joint Air Operations Command and Control
	TOPGUN Manual
	AGOS Manual

	Understanding Link 4A/11/16
	Understanding Data Links
MCM 3-1	Threat Reference Manual

520. LIVE/SIMULATOR EVENT TRAINING: TACTICAL AIR DEFENSE CONTROLLER

1. **Combat Capable Training**

STAGE	EVENTS	HOURS	PERCENT
MCCES			60.00%

2. **COMBAT READY STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
GROUND BASED AIR DEFENSE TRAINING	4	22	3.25%
AIR INTERCEPT CONTROLLER TRAINING	12	45	11.75%
COMBAT READY TOTALS:	16	67	15.00%

3. **COMBAT QUALIFICATION STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
SENIOR TRAFFIC DIRECTOR TRAINING	4	32	5.00%
SURVEILLANCE IDENTIFICATION DIRECTOR TRAINING	6	44	15.00%
COMBAT QUALIFICATION TOTALS:	10	76	20.00%

4. **FULL COMBAT QUALIFICATION STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
SENIOR WEAPONS DIRECTOR TRAINING	4	36	5.00%
FULL COMBAT QUALIFICATION TOTALS:	4	36	5.00%

5. **INSTRUCTOR STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
AIR INTERCEPT CONTROL INSTRUCTOR TRAINING	3	28	0.00%
INSTRUCTOR TRAINING TOTALS:	3	28	0.00%

6. **SPECIAL SKILLS TRAINING**

STAGE	EVENTS	HOURS	PERCENT
SENIOR AIR DIRECTOR TRAINING	8	96	0.00%
MOS 7236 T&R SYLLABUS TOTALS:	**41**	**303**	**100.00%**

530. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. General. The majority of the Tactical Air Defense Controller (TADC) syllabus is ground training which requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified TADC.

a. **Live Training**. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

b. **Simulator Training**. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted in the Tactical Air Operations Module (TAOM) and the Sector Anti Air Warfare Facility (SAAWF) where applicable. Training not conducted in the TAOM or SAAWF shall be replaced with live training where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

2. **Minimum Performance Time for Syllabus "Write-Off"/Designations**. Personnel may receive credit for successful completion of any syllabus requirement/performance standards (except qualifications) upon either a written, oral, or practical demonstration of proficiency, at the Commanding Officer's discretion. Completion of 80 percent of any syllabus event (except qualifications) may be "written-off" as complete at the discretion of the designated evaluator. Qualifications require a completed performance evaluation, and the designation signed by the Commanding Officer.

3. **Evaluation of Training**. Evaluation of those portions of the syllabus which are academic in nature will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per T&R Manual, Volume 1, and the standardized evaluation forms located in the appendix to this syllabus.

531. COMPONENTS OF A T&R EVENT

1. General. An event contained within a T&R Manual is an Individual or collective training standard and contains seven or eight components, dependent on the tier in which they are contained:

1/	2/ 3/	4/	5/	6/
SAM-XXX	**0.5**	**T,C,R, E**	**EQUIP**	**L/S (NS)**

TASK: The title of a unit of work which needs to be done in the performance of a Marine's duties. It is a clearly stated performance-oriented action requiring learned skills and knowledge, i.e. Engage a rotary winged aircraft.

CONDITION(S): The condition(s) set for the real-world or combat circumstances in which the tasks are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this should be stated.

STANDARD(S): The performance standard indicates the basis for judging the effectiveness of the performance. It consists of a carefully worded statement which identifies the proficiency level expected when the task is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

PERFORMANCE STEP(S): *Listed for 100 level T&R events only.* Performance steps are the actions or decisions required to fulfill proficiency established by the standard. The major performance steps which are required to perform the task to proficiency are listed in the order of performance. Minor steps are not listed.

PREREQUISITE(S): Provides a listing of academic training or other T&R events which must be completed prior to satisfying the task.

REFERENCE(S): Listing of doctrinal or reference publications which may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

ORDNANCE: A listing of Ordnance types and quantities required to satisfy the Task.

EXTERNAL SUPPORT REQUIREMENT(S): A listing or description of the external support requirements which may be required to satisfy completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES:

1/ Events are coded per Appendix B of T&R Manual Vol 1.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable Program of Instruction (Basic POI is understood).

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision

Device; Where contained within **( )** denotes optional conditions.

532. COMBAT CAPABLE TRAINING

1. COMBAT CAPABLE STAGE. All Combat Capable training (100 series) will be conducted during the TADCC at MCCES, 29 Palms, CA.

533. COMBAT READY TRAINING

1. **Ground Based Air Defense (GBAD) Training**

a. **Purpose**. To refine the TADC's skills required to be qualified as a Missile Controller (MC) and to provide a means for the TADC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Successful completion of the MC events is required for designation as a Weapons Controller.

(b) During each period, the TADC must demonstrate proficiency in passing threat information, maintaining Situation Awareness (SA), using the proper report formats, and functioning as a member of the Weapons Section.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(d) For evaluation purposes, a mission will consist of a brief, execution and debrief of each event.

(2) **Prerequisite(s)**. Completion of the Combat Capable stage of training.

(3) **Refresher Training**. Refresher training is required once a combat ready TADC has been absent from a TADC billet for 16 months or longer. Upon return to an appropriate billet the TADC will complete the "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. A core competent TAOC crew.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events, 22.0 Hours)**

GBAD-215	2.0	T R	TAOC	L/S

Task. Perform MC functions.

Condition(s). Without data link, in a field/garrison environment, utilizing a single FU.

Standard(s). Perform the following functions:

(1) Conduct manual crosstell to the simulated/live FU.

(2) Conduct manual assignments against an air threat.

(3) Disseminate the appropriate Weapons Control Status (WCS), Air Defense Warning Condition (ADWC), and States of Alert (SOA).

(4) Post FU status.

(5) Ensure related DB entries are entered and correct.

(6) Perform appropriate OS functions.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). Academics: T-04, T-25, T-26, T-37, T-82, T-83, T-86

External Syllabus Support. SAM FU if live.

GBAD-216 4.0 T R TAOC L/S

Task. Perform MC functions.

Condition(s). During an exercise, utilizing a single FU, in a centralized mode of control, with data link established, in a medium/high intensity air defense environment.

Standard(s). Perform in the following areas:

(1) Brief the MC portion of the TAOC crew brief IAW the TAOC Pocket Checklist.

(2) Ensure related DB entries are entered and correct.

(3) Maintain an accurate/critical information flow to the FU via the simulated net(s).

(4) Complete assignments against an air threat.

(5) Ensure effective cross-boundry coordination between engagement zones IAW the SWD’s direction.

(6) Disseminate appropriate WCS, ADWC, and SOA to the FU.

(7) Perform appropriate OS functions.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). Academics: T-04, T-25, T-26, T-37, T-82, T-83, T-86

External Syllabus Support. SAM FU if live.

GBAD-217 8.0 T R E TAOC L/S

Task. Perform MC functions.

Condition(s). During a live exercise; employing an Integrated Air Defense System (IADS); utilizing multiple FUs in a centralized mode of control (with ATDL-1 established); and in a medium/high intensity air defense environment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Brief the MC portion of the TAOC crew brief IAW the TAOC Pocket Checklist.

(2) Ensure all related DB entries are entered and correct.

(3) Maintain information flow to the FU via the appropriate net.

(4) Conduct simultaneous assignments between two FUs against a credible air threat.

(5) Ensure effective cross-boundary coordination between engagement zones IAW the SWD's direction.

(6) Disseminate appropriate WCS, ADWC, and SOA to the FUs.

(7) Perform appropriate OS functions.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s)

(1) GBAD-216.

(2) Academics: T-04, T-25, T-26, T-37, T-82, T-83, T-86.

External Syllabus Support. SAM FU(s), CAP and aggressor aircraft.

2. **Air Intercept Controller (AIC) Training**

a. **Purpose**. To refine the TADC's skills required to be qualified as a Air Intercept Controller (AIC) and to provide a means for the TADC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Successful completion of the AIC events is required for designation as a Weapons Controller.

(b) During each period, the TADC must demonstrate proficiency in passing threat information, maintaining Situation Awareness (SA), using the proper report formats, and functioning as a member of the Weapons Section.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(d) For evaluation purposes, a mission will consist of a brief, execution and debrief of each event.

(e) The AIC will become proficient in controlling simulated and live fighter aircraft employing section and division tactics.

(f) The AIC will become proficient in controlling during live and simulated integrated air defense exercises with multiple fighters.

(g) Briefing and debriefing standards will be IAW the squadron SOP (developed using TOPGUN and F/A-18 TACMAN standards) to include flight safety and emergency procedures prior to executing any event.

(h) Target information (bogey dope) will be given using broadcast/tactical control utilizing the BRAA, Bullseye, GEOREF, or an established grid system.

(i) Two-way TADIL-C/Link 4A will be used to the fullest extent possible for each event controlled.

(j) Missions will be executed IAW ROE established by published AAW directives, operational planning orders/documents, or individual mission briefs.

(k) The TACTS facilities should be used when available for debriefing purposes.

(2) **Prerequisite(s)**. Completion of the Combat Capable stage of training.

c. **Crew Requirements**. A core competent TAOC crew will be required for the exercise events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (12 Events, 45.0 Hours)**

AIC-220	**0.5**	**T R**	**TAOC**	**S**

Task. Take appropriate action for an aircraft emergency.

Condition(s). During a simulated emergency (controlled & uncontrolled).

Standard(s). Successfully complete squadron SOP checklist for aircraft emergency using proper switch actions and AWC utilization.

(1) Determine nature of emergency.

(2) Establish “knock it off” as appropriate.

(3) Notify proper agencies.

(4) Direct On-Scene Commander squawk emergency as appropriate.

(5) Using proper switch actions, establish emergency fix as appropriate.

Reference(s). TAOC PCL and Squadron SOP for emergencies.

Prerequisite(s). Academics: T-21.

External Syllabus Support. None.

AIC-221 1.5 T R TAOC S

Task. To control a simulated section of fighter aircraft.

Condition(s). Control against a multiple threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Correctly identify the following threat formations and tactics:

(a) Formations:

-VIC.
-Champagne.
-Ladder.
-Wall.
-Box/Offset Box.

(b) Tactics - IAW the MCM 3-1 Vol 2.

(2) Utilization of an AWC.

(3) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). Academics: T-03, T-10, T-24, T-32, T-60, T-74.

External Syllabus Support. None.

AIC-222 1.5 T R TAOC S

Task. To control a simulated section of fighter aircraft.

Condition(s). On a CAP against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Provide threat information using core information/comm format as briefed.

(2) Provide Broadcast control transitioning to Tactical control after the commit or as briefed.

(3) Utilize briefed GCI procedures until training goals have been met.

(4) Initiate and employ TADIL-C/Link 4A as briefed.

(5) Utilization of an AWC.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). AIC-221.

External Syllabus Support. None.

AIC-223 1.5 T R TAOC S

Task. To control a division of fighter aircraft.

Condition(s). On a CAP, against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Provide threat information using core information/comm format as briefed.

(2) Provide Broadcast control transitioning to Tactical control after the commit.

(3) Utilize briefed GCI procedures until training goals have been met or as briefed.

(4) Initiate and employ TADIL-C/Link 4A as briefed.

(5) Utilization of an AWC.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). AIC-222.

External Syllabus Support. None.

AIC-224 4.0 T R E TAOC S

Task. Perform as an AIC.

Condition(s). During a SIMEX.

Standard(s). Demonstrate proficiency in the following areas:

(1) Ensure all AIC DB entries are correct.

(2) Initiate and employ TADIL-C/Link 4A as briefed.

(3) Utilize briefed GCI procedures.

(4) Ensure effective cross-boundary coordination between engagement zones IAW SWD's direction.

(5) Disseminate the current threat status as appropriate (WCS, ADWC, and SOA) to the fighters.

(6) Utilization of an AWC.

(7) Perform appropriate VFS/OS functions.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). AIC-223.

External Syllabus Support. None.

AIC-230 4.0 T R TAOC L

Task. To control a section of fighter aircraft.

Condition(s). On a CAP, against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Provide threat information using core information/comm format as briefed.

(2) Provide Broadcast control transitioning to Tactical control as briefed.

(3) Utilize briefed GCI procedures until training goals have been met.

(4) Initiate and employ TADIL-C as briefed.

(5) Utilization of an AWC.

(6) Must successfully complete two missions with aircraft.

(7) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s)

(1) AIC-220 and AIC-222.

(2) Academics: T-13, T-44, T-71, T-80, T-81, T-82.

External Syllabus Support. None.

AIC-231 4.0 T R TAOC L

Task. To control a division of fighter aircraft.

Condition(s). Against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to paragraph 534.1.b.1.b-d.

(2) Provide threat information using core information/comm format as briefed.

(3) Provide Broadcast control transitioning to Tactical control as briefed.

(4) Utilize briefed GCI procedures until training goals have been met.

(5) Initiate and employ TADIL-C as briefed.

(6) Utilization of an AWC.

(7) Must successfully complete TWO missions with aircraft.

(8) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). AIC-223 and AIC-230.

External Syllabus Support. Fighter and Aggressor aircraft.

AIC-232 4.0 T R TAOC L/S

Task. To control a section/division of fighter aircraft.

Condition(s). During a Point Defense mission against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Utilize GCI procedures as briefed or as the tactical situation dictates.

(2) Utilization of an AWC.

(3) Must successfully complete two missions with aircraft.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). AIC-223.

External Syllabus Support. Fighter and Aggressor aircraft.

AIC-233 4.0 T R TAOC L/S

Task. To control a section/division of fighter aircraft.

Condition(s). During a Sweep mission against an unknown threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Utilize GCI procedures as briefed or as the tactical situation dictates.

(2) Utilization of an AWC.

(3) Must successfully complete TWO missions with aircraft.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). AIC-223.

External Syllabus Support. Fighter and Aggressor aircraft.

AIC-234 4.0 T R TAOC L/S

Task. To control a section/division of fighter aircraft.

Condition(s). Utilizing Escort/Sweep tactics against an unknown threat, using Broadcast control.

Standard(s). Demonstrate proficiency in the following areas:

(1) Provide Tactical control when requested or when the threat dictates.

(2) Must successfully complete TWO missions with aircraft.

(3) Provide threat information using core information/comm format as briefed.

(4) Utilization of an AWC.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). AIC-223.

External Syllabus Support. Fighter and Aggressor aircraft.

AIC-235 8.0 T R E TAOC L

Task. Perform as an AIC.

Condition(s). In an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Ensure all AIC related DB entries are entered and correct.

(2) Initiate and employ TADIL-C/Link 4A as briefed.

(3) Utilize briefed GCI procedures to control CAP aircraft using Broadcast/Tactical control methods.

(4) Ensure effective cross-boundary coordination between engagement zones IAW SWD’s direction.

(5) Disseminate the current threat status and appropriate WCS, ADWC, and SOA to the fighters.

(6) Utilization of an AWC.

(7) Perform appropriate VFS/OS functions.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). AIC-224, 230 and 231.

External Syllabus Support. External C3 agencies and fighter/aggressor aircraft.

QUAL-280 8.0 T R E TAOC L\S

Task. To be evaluated for qualification as a MC.

Condition(s). During an exercise.

Standard(s). All standards identified in GBAD-217.

Reference(s). None.

Prerequisite(s). GBAD-215, 216, and 217.

External Syllabus Support. Minimum of two SAM FUs, CAP and aggressor aircraft.

QUAL-281 8.0 T R E TAOC L

Task. To be evaluated for qualification as an AIC.

Condition(s). During an exercise.

Standard(s). All standards identified in AIC-235.

Reference(s). None.

Prerequisite(s). AIC-235.

External Syllabus Support. External C3 agencies, fighter and aggressor aircraft.

3. **COMBAT READY DESIGNATIONS**

a. **Purpose**. To designate the TADC as a Weapons Controller (WC).

b. **General**

(1) **Administrative Notes**

(a) A TADC will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted by the squadron's TAOC and/or WTI Training and Readiness Officer and a recommendation will be staffed to the Commanding Officer.

(c) The TADC shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Combat Ready stage of training.

(b) Completion of the MACCS Academic COI (200 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (1 Event, 0.0 Hours)**

DESG-290 0.0 T R E TAOC

Task. Designation as a Weapons Controller (WC).

Reference(s). None.

Prerequisite(s). QUAL-280 and QUAL-281.

534. COMBAT QUALIFICATION TRAINING

1. SENIOR TRAFFIC DIRECTOR (STD) TRAINING

a. **Purpose**. To refine the TADC's skills required for Senior Traffic Director (STD) designation and to provide a means for a designated STD to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for STD qualifications.

(b) During each period, the TADC must demonstrate proficiency in passing threat information, maintaining Situation Awareness (SA), using the proper report formats, and functioning as the director of the Traffic Section.

(c) At least one live and one simulated STD performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Completion of the Combat Capable Stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified TADC has been absent from an TADC billet for 16 months or longer. Upon return to an appropriate billet the TADC will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent TAOC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events, 32.0 Hours)**

STD-300 8.0 T R TAOC L/S

Task. Conduct tactical planning for the Traffic Section.

Condition(s). In a garrison/field environment with appropriate exercise documentation.

Standard(s). Demonstrate proficiency with the following considerations associated with planning an exercise:

(1) Recommend Airspace Control Measures (ACM) to be used within the TAOC Area of Responsibility (AOR).

(2) Determine and develop the procedures for RADAR, data link, and procedural handovers.

(3) Conduct coordination with subordinate, adjacent, and higher units for implementation of handover procedures and ACM.

(4) The STD must familiarize himself with the published Airspace Control Measures (ACM) found in the Airspace Control Order (ACO), Airspace Control Plan (ACP), and Operations Order (OPORDER) in order to determine the impact of site selection and its impact on mission accomplishment.

(5) Conduct a detailed threat analysis.

(6) Identify the Traffic Section communications requirements and assignments.

(7) Establish procedures for Marine sector air operations and procedures for updating and passing fuel give away and tanker status.

(8) Identify TATC responsibilities.

(9) Coordinate the procedures for receiving and modifying the ATO.

(10) Identify all Traffic DB requirements.

(11) Preparing the Traffic Section crew brief IAW the TAOC PCL and MCCRES standards.

(12) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.1, MCWP 3-25.7, AGOS Manual, FM 100-42, JCS PUB 3-52, JCS PUB 1-02, MAWTS-1 ASP.

Prerequisite(s). Academics: T-05, T-09, T-11, T-21, T-34, T-42, T-60, T-62, T-75, T-76, T-77, T-78, T-86.

External Syllabus Support. Required planning documents.

STD-301 8.0 T R E TAOC L

Task. To perform as an STD.

Condition(s). During a simulated exercise.

Standard(s)

(1) Demonstrate proficiency with the requirements identified in STD-300.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.1, MCWP 3-25.7, AGOS Manual, FM 100-42, JCS PUB 3-52, JCS PUB 1-02, MAWTS-1 ASP.

Prerequisite(s). STD-300.

External Syllabus Support. External C3 agencies, tactical/support aircraft.

STD-302 8.0 T R E TAOC L

Task. To perform as an STD.

Condition(s). During a live exercise.

Standard(s)

(1) Demonstrate proficiency with the requirements identified in STD-300.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.1, MCWP 3-25.7, AGOS Manual, FM 100-42, JCS PUB 3-52, JCS PUB 1-02, MAWTS-1 ASP.

Prerequisite(s). STD-301.

External Syllabus Support. External C3 agencies, tactical/support aircraft.

2. SENIOR IDENTIFICATION DIRECTOR (SID) TRAINING

a. **Purpose**. To refine the TADC's skills required for the Surveillance Identification Director (SID) designation and to provide a means for a designated SID to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for SID qualifications.

(b) During each period, the ADCO must demonstrate proficiency in passing threat information, maintaining Situation Awareness (SA), using the proper report formats, and functioning as the director of the Surveillance Section.

(c) At least one live and one simulated SID performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**

(a) Completion of the Combat Capable stage of training.

(b) All general items listed in chapter 4, paragraph 434.2 (DLC) of this manual apply.

(3) **Refresher Training**. Refresher training is required once a combat qualified TADC has been absent from an TADC billet for 16 months or longer. Upon return to an appropriate billet the TADC will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent TAOC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (10 Events, 76.0 Hours)**

SID-310	8.0	T R	TAOC	L/S

Task. Conduct tactical planning for the Surveillance Section.

Condition(s). In a garrison/field environment with appropriate exercise documentation.

Standard(s). Demonstrate proficiency with the following considerations associated with planning an exercise.

(1) Identify potential gaps in coverage due to terrain masking and RADAR horizon limitations, and recommend emplacement/employment of TAOC RADARS.

(2) Conduct coordination with subordinate, adjacent, and higher units for data link architecture and implementation IAW the OPTASK LINK.

(3) Extract the ID matrix IAW published ROE, OPORDER, ACP, or ACO.

(4) Conduct a detailed threat analysis.

(5) Identify the Surveillance Section communications requirements and assignments.

(6) Recommend the TAOC’s and subordinate agencies’ EMCON plan (COMM/RADCON) based on OPORDER, ACP, and ACO direction.

(7) Identify Surveillance Operator (SO) and DLC responsibilities.

(8) Plan for the employment of a remote RADAR.

(9) Identify Surveillance DB requirements.

(10) Prepare the Surveillance Section crew brief IAW the TAOC PCL and MCCRES standards.

(11) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-07, T-08, T-09, T-17, T-20, T-33, T-36, T-40, T-43, T-52, T-58, T-59, T-61, T-66, T-69.

External Syllabus Support. Required planning documents.

SID-311 8.0 T R TAOC L

Task. Maximize RADAR performance.

Condition(s). In a garrison/field environment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Recommend RADAR site selection.

(2) Perform RADAR alignment.

(3) Perform RADAR registration.

(4) Conduct coordination to optimize performance of selected radars.

(5) Recommend a RADAR degradation plan.

(6) Develop a RADAR coverage diagram for system RADARS.

(7) Conduct remote RADAR operations.

(8) Plan for AN/TPS-59 decoy employment.

(9) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-40, T-43, T-55.

External Syllabus Support. None.

SID-312 8.0 T R E TAOC L/S

Task. Perform as an SID.

Condition(s). In a garrison/field exercise environment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct a detailed crew brief developed IAW the pertinent air operations information received via the TAOC Operations Brief/MACCS Commander's brief. The brief will be conducted IAW the TAOC PCL and MCCRES standards.

(2) Supervise surveillance data base entries including EMCON, data links, radar performance, MRRs, and ID corridors.

(3) Supervise the air surveillance of the assigned sector.

(4) Supervise the implementation of the established ID criteria and subsequent classification process.

(5) Supervise initialization and management of data links.

(6) Perform detailed casualty procedure planning in order to assume the functions of the Track Data Coordinator (TDC) or Interface Coordination Officer (ICO) when operating as the alternate TACC

(7) Manage the EP/EMCON plan for the TAOC and subordinate agencies.

(8) Perform appropriate VFS/OS functions associated with surveillance.

(9) Implement the published manual crosstell procedures.

(10) Manage the Surveillance Section IAW the SAD's direction.

(11) Compile and forward applicable reports.

(12) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). SID-310 and 311.

External Syllabus Support. External C3 agencies.

SID-313 8.0 T R E TAOC L

Task. Perform as a SID.

Condition(s). In a garrison/field exercise environment.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in SID-312.

(2) Conduct surveillance planning and operations with a non-MACCS JTAO platform.

(3) Successfully complete 80% of the above listed requirement.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). SID-312.

External Syllabus Support. External C3 agencies.

SID-314 4.0 T R TAOC L/S

Task. Perform Electronic Warfare (EW) operations.

Condition(s). In a garrison/field environment using TAOC equipment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter the TAOC EMCON plan and missile thresholds in the DB.

(2) Detecting, identifying, and reporting any jamming to the SAD.

(3) Fixing the location of threat jammers with proper symbology (strobes/air tracks).

(4) Reacting to the EMCON alert and implementing the TAOC EMCON plan IAW the SAD’s direction.

(5) Conduct coordination with the RADAR tech to optimize RADAR performance in an EW environment.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-20, T-22, T-40.

External Syllabus Support. Applicable platforms.

QUAL-380 8.0 T R E TAOC L

Task. To be evaluated for qualification as an STD.

Condition(s). During a garrison/field exercise.

Standard(s)

(1) Demonstrate proficiency in the requirements identified in STD-301.

(2) Successfully complete 80% of the above listed standards.

Reference(s). None.

Prerequisite(s). STD-302.

External Syllabus Support. External C3 agencies.

QUAL-381 8.0 T R E TAOC L

Task. To be evaluated for qualification and designation as a SID.

Condition(s). During a garrison/field exercise.

Standard(s). Demonstrate proficiency in the requirements identified in SID-313.

Reference(s). None.

Prerequisite(s). SID-313.

External Syllabus Support. External C3 agencies and tactical/ support aircraft.

3. **COMBAT QUALIFICATION DESIGNATIONS**

a. **Purpose**. To designate the TADC as a STD and SID.

b. **General**

(1) **Administrative Notes**

(a) A TADC will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted by the squadron's TAOC and/or WTI Training and Readiness Officer and a recommendation will be staffed to the Commanding Officer.

(c) The TADC shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(d) Upon completion of this portion of the training syllabus, an TADC will be 95% trained and Combat Qualified.

(2) **Prerequisite(s)**

(a) Completion of the Combat Ready stage of training.

(b) Completion of the MACCS Academic COI (300 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. TAOC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Designation Events (2 Events, 0.0 Hours)**

DESG-390 0.0 TAOC

Task. Designation as a Senior Traffic Director (STD).

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-380.

DESG-391 0.0 TAOC

Task. Designation as a Surveillance Identification Director (SID).

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-381.

535. FULL COMBAT QUALIFICATION TRAINING

1. SENIOR WEAPONS DIRECTOR (SWD) TRAINING

a. **Purpose**. To refine the TADC's skills required for designation as a Senior Weapons Director (SWD) and provide the means for the designated SWD to remain current.

b. **General**

(1) **Administrative Note**. Full Combat Qualification Training will consist of planning for and execution of an Anti-Air Warfare (AAW) mission during an exercise.

(2) **Prerequisite**. Combat Capable and Combat Ready Stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified TADC has been absent from a TADC billet for 16 months or longer. Upon return to an appropriate billet the TADC will complete the "R" coded events in the 300 and 400 level syllabi.

c. **Crew Requirements**. A core capable TAOC.

d. **Academic Training**. TAOC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Live and Simulator Event Training (4 Events, 36 Hours)**

SWD-400 8.0 T R TAOC L/S

Task. Conduct tactical planning for the Weapons Section.

Condition(s). In a garrison/field environment with appropriate exercise documentation.

Standard(s). Demonstrate proficiency with the following considerations associated with planning an exercise:

(1) Recommend Airspace Control Measures (ACM) to be used within the TAOC Area of Responsibility (AOR).

(2) Develop the destruction area within the TAOC's assigned air defense sector by ensuring the following:

- Coordination with GBAD assets for FU employment/emplacement and MEZ construction.

- Coordination with higher headquarters for CAP employment and FEZ considerations.

(3) Determine CAP management/control responsibilities and procedures.

(4) Coordinate with the STD for development of handover procedures and symbol management functions.

(5) Coordinate with the SAAWC Staff for reporting of AAW asset status, strip alert procedures and CAP reconstitution.

(6) Establish procedures for target assignments.

(7) Develop alternate/casualty engagement zones based on the threat and friendly AAW systems availability.

(8) Disseminate TAOC and subordinate agency specific ROE procedures/requirements IAW the published ROE.

(9) Develop detailed procedures for IADS employment in decentralized and autonomous modes of control.

(10) Develop the procedures for operation in the semi-automatic and automatic modes of operation with the TAOM.

(11) Conduct a detailed threat analysis.

(12) Prepare the Weapons Section brief IAW the TAOC PCL and MCCRES standards.

(13) Identify Weapons Section communications requirements and assignments.

(14) Identify Weapons DB items.

(15) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). Academic: T-01, T-02, T-12, T-27, T-56, T-70, T-84, T-85.

External Syllabus Support. None.

SWD-401 4.0 T R TAOC S

Task. Perform as an SWD.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Manage the employment of assigned weapons systems IAW established ROE.

(2) Conduct a detailed crew brief developed IAW air operations information received via the TAOC operations brief/MACCS commander's brief. The brief will be conducted IAW the TAOC PCL and MCCRES Standards.

(3) Supervise Weapons related DB entries to include WEZs, Weapons Control Boundaries, TAORs, and special points.

(4) Manage the Weapons Section IAW the SAD’s direction.

(5) Exercise system capabilities to assist in the ID process and the conduct of overall threat evaluation.

(6) Maintain status of assigned weapons systems and ensure critical information is relayed to appropriate agencies.

(7) Maintain SA on WEZ engagements, WCS, ADWC, and SOA and make recommended changes.

(8) Timely requests of Strip Launch Alert (SLA) aircraft as the threat dictates.

(9) Ensure maximum use of data links to minimize voice communications.

(10) Ensure emergency procedures are fully understood and effectively implemented as required.

(11) Compile and forward applicable reports.

(12) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s)

(1) SWD-400.

(2) Academics: T-72, T-73.

External Syllabus Support. None.

SWD-402 **16.0** **T R E** **TAOC** **L**

Task. Perform as an SWD.

Condition(s). In an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in SWD-401.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). SWD-401.

External Syllabus Support. External C3 agencies and tactical/support aircraft.

QUAL-480 **8.0** **T R E** **TAOC** **L**

Task. To be evaluated for qualification and designation as an SWD.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in all the requirements identified in SWD-402.

Reference(s). None.

Prerequisite(s). SWD-402.

External Syllabus Support. External C3 agencies and tactical/support aircraft.

2. **FULL COMBAT QUALIFICATION DESIGNATION**

a. **Purpose**. To designate the TADC as a SWD.

b. **General**

(1) **Administrative Notes**

(a) A TADC will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted by the squadron's TAOC and/or WTI Training and Readiness Officer and a recommendation will be staffed to the Commanding Officer.

(c) The TADC shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(d) Upon completion of this portion of the training syllabus, a Tactical Air Defense Controller will be 100% trained and Fully Combat Qualified.

(2) **Prerequisite(s)**

(a) Completion of the Combat Qualification stage of training.

(b) Completion of the MACCS Academic COI (400 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (1 Event, 0.0 Hours)**

DESG-490 0.0 TAOC

Task. Designation as a Senior Weapons Director (SWD).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-480.

536. INSTRUCTOR QUALIFICATION TRAINING

1. AIR INTERCEPT INSTRUCTOR QUALIFICATION TRAINING

a. **Purpose**. To designate the TADC as an Air Intercept Controller Instructor (AICI).

b. **General**

(1) **Administrative Notes**

(a) During the AICI training a qualified/designated AIC will act as the "student" AIC for the AICI under instruction.

(b) For evaluation purposes, a mission will consist of a brief, execution and debrief of each event.

(2) **Prerequisite**. AIC portion of the Combat Ready Stage of training.

(3) **Refresher Training**. Refresher training is required once a AICI has been absent from a AICI billet for 16 months or longer. Upon return to an appropriate billet the AICI will complete the "R" coded events in the 500 level syllabus.

(2) **Prerequisite**. QUAL-281.

c. **Crew Requirements**. SAD, SCC, AICI, AIC.

d. **Academic Training**. TAOC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Live and Simulator Event Training (3 Events, 22 Hours)**

AICI-500	**6.0**	**T R E**	**TAOC**	**S/L**

Task. Develop instruction techniques.

Condition(s). A simulation capable system and classroom facilities.

Standard(s). Demonstrate the ability to:

(1) Conduct a comprehensive brief with an AIC to include:

- T&R Requirements.
- Mission game plan.
- Previously identified weak areas.

(2) Conduct a comprehensive debrief to include:

- The conduct of the mission with an emphasis on comm priority.
- Lessons learned.
- Establishing AIC goals and training requirements.

(3) Instruct the AIC on the six phases of an intercept.

(4) Instruct the AIC on air control communication.

(5) Successfully complete 80% of the above listed requirements.

Reference(s). MCM 3-1, TOPGUN Manual, MDTC POI.

Prerequisite. QUAL-281.

External Syllabus Support. MAWTS-1 ASP and Tactics Trainer.

AICI-501 **6.0** **T R E** **TAOC** **L**

Task. Instruct section and division tactics.

Condition(s). An operational TAOC system with radars and aircraft.

Standard(s). Demonstrate proficiency as an instructor in the following areas:

(1) Instruct the following intercept tactics:

- Section Tactics.
- Division Tactics.

(2) Instruct intercept control.

(3) Instruct the student on the six phases of an intercept.

(4) Instruct air control communication.

(5) Instruct the student on the use of the Tactics Trainer.

Reference(s). MCM 3-1, TOPGUN Manual, MDTC POI.

Prerequisite. AICI-500.

External Syllabus Support. MAWTS-1 ASP and Tactics Trainer.

AICI-502 **16.0** **T R E** **TAOC** **L**

Task. Instruct, monitor, and debrief an AIC.

Condition(s). An operational TAOC system with radars, aircraft, and classroom facilities.

Standard(s). Demonstrate proficiency as an instructor in:

(1) The conduct of a comprehensive flight brief with the AIC prior to controlling the mission.

(2) Monitoring the AIC during the mission focusing on evaluating the students performance for debriefing purposes ensuring safety of flight considerations are adhered to by the AIC.

(4) The conduct of a comprehensive debrief focusing on air control comm and tactical lessons learned.

Reference(s). MCM 3-1, TOPGUN Manual, MDTC POI.

Prerequisite. AICI-501.

External Syllabus Support. Fighter and aggressor aircraft and the MAWTS-1 ASP and Tactics Trainer.

2. **INSTRUCTOR DESIGNATIONS.**

a. **Purpose**. To designate the TADC as an AICI, MDTI/SFTI, and/or MEWTI.

b. **General**

(1) **Administrative Notes**

(a) A TADC will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted by the squadron's TAOC and/or WTI Training and Readiness Officer and a recommendation will be staffed to the Commanding Officer.

(c) The TADC shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(2) **Prerequisite(s)**

(a) AIC designation for AICI.

(b) MAWTS-1 MEWTI resident COI for designation as a MEWTI.

(c) For MDTI/SFTI completion of appropriate COI and performance events (SFTI is included for future use).

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (3 Events, 0.0 Hours)**

DESG-590 **0.0** **TAOC**

Task. Designate the TADC as an AICI.

Condition(s). None.

Standard(s). Completion of all AICI performance events.

Reference(s). None.

Prerequisite. AICI-502.

External Syllabus Support. None.

DESG-591 **0.0** **TAOC**

Task. Designate the TADC as a MEWTI.

Condition(s). None.

Standard(s). Satisfactory completion of MEWTI COI and performance events.

Reference(s). None.

Prerequisite. None.

External Syllabus Support. None.

DESG-592 0.0 TAOC

Task. Designate the TADC as an MDTI/SFTI.

Condition(s). The SFTI designation is included for future use.

Standard(s). Satisfactory completion of the appropriate COI and performance events.

Reference(s). None.

Prerequisite. None.

External Syllabus Support. None.

537. SPECIAL SKILLS TRAINING AND

1. SENIOR AIR DIRECTOR (SAD) TRAINING

a. **Purpose**. To refine the TADC's skills required for designation as a Senior Air Director (SAD) and to provide a means for the designated SAD to remain current.

b. **General**

(1) **Administrative Notes**. None.

(2) **Prerequisite**. Full Combat Qualified Stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified TADC has been absent from a TADC billet for 16 months or longer. Upon return to an appropriate billet the TADC will complete the "R" coded events in the 300, 400 and 600 level syllabi.

c. **Crew Requirements**. Core competent TAOC crew.

d. **Academic Training**. TAOC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Live and Simulator Event Training (8 Events, 96.0 Hours)**

SAD-600 8.0 T R TAOC L

Task. Perform system troubleshooting.

Condition(s). With a faulted TAOM system.

Standard(s). Demonstrate proficiency in the following areas:

(1) Given a list of operator alerts OCU error codes, and printer error codes, demonstrate the ability to interpret them and take appropriate action.

(2) Demonstrate the ability to fault isolate components of the seven major equipment groups of the TAOM to the LRI.

(3) Demonstrate the skills necessary to reconfigure the system around failed units.

(4) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 0611.

Prerequisite(s). Academic: T-14, T-16, T-23, T-57.

External Syllabus Support. None.

SAD-601 24.0 T R TAOC L

Task. Perform as an SAD.

Condition(s). During garrison flight operations.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct a crew brief prior to flight/link operations.

(2) Ensure proper system configuration and DB inputs.

(3) Direct and manage crew function.

(4) Records and logs are properly maintained.

(5) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 511.

Prerequisite(s)

(1) SAD-600.

(2) Academic: T-15, T-45, T-65, T-79.

External Syllabus Support. Fighter/aggressor aircraft and/or data link platforms.

SAD-602 8.0 T R TAOC L/S

Task. Conduct tactical planning for the Command Section.

Condition(s). In a garrison/field environment with appropriate exercise documentation.

Standard(s). Demonstrate proficiency in the following areas:

(1) Prepare the SAD brief IAW the TAOC PCL and MCCRES Standards.

(2) Oversee the planning of the Traffic, Weapons, and Surveillance sections.

(3) Develop system configuration plan.

(4) Plan the emplacement of the TAOC to include radar and EW/C employment.

(5) Supervise DB construction and entry.

(6) Coordinate with the SAAWC in planning overall TAOC employment.

(7) Supervise the conduct of a detailed threat analysis.

(8) Develop a crew watch schedule and change over procedures.

(9) Develop a casualty/degradation plan, and detailed restoration priorities plan.

(10) Ensure comm requirements are identified that will allow for mission accomplishment.

(11) Identify system limitations for input to the ACE Commander.

(12) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 0611.

Prerequisite(s). Academic: T-01, T-06, T-19, T-38, T-39, T-63, T-64, T-67, T-68.

External Syllabus Support. None.

SAD-603 16.0 T R TAOC S

Task. Perform as an SAD.

Condition(s). With a TAOC only exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct a detailed SAD brief IAW the TAOC PCL and MCCRES Standards.

(2) Supervise system configuration and DB input.

(3) Supervise and manage the Traffic, Weapons, and Surveillance Sections.

(4) Identify systems failures/degradations, trouble shoot and perform fault isolation and take corrective action utilizing the SCC.

(5) Execute briefed casualty procedures and implement the restoration plan to include system reconfiguration as required.

(6) Records and logs are properly maintained.

(7) Ensure the SCC is conducting appropriate system maintenance/management and required interfacing with maintenance personnel.

(8) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 0511.

Prerequisite(s). SAD-600.

External Syllabus Support. None.

SAD-604 8.0 T R TAOC S

Task. Perform as an SAD.

Condition(s). During an integrated exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements listed in SAD-601.

(2) Coordinate integration of senior, adjacent, and subordinate agencies and ensuring accurate and timely critical information flow is being conducted.

(3) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 0511.

Prerequisite(s). SAD-603.

External Syllabus Support. External C3 agencies.

SAD-605 8.0 T R E TAOC L

Task. Perform site emplacement of a TAOC.

Condition(s). In garrison/field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Tactical dispersion of the TAOMs.

(2) Effective use of passive defense measures.

(3) Ensure proper cabling of the TAOC.

(4) Echeloning in/out of TAOMs and external units as required.

(5) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 0611.

Prerequisite(s). SAD-600, 602.

External Syllabus Support. MHE.

SAD-606 16.0 T R TAOC L

Task. Perform as an SAD.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all requirements identified in SAD-600 through SAD-605.

(2) Successfully complete 80% of the above listed standards.

Reference(s). Refer to paragraph 0611.

Prerequisite(s). SAD-601, 604, and 605.

External Syllabus Support. External C3 agencies, MHE.

QUAL-680 8.0 T R E TAOC L

Task. To be evaluated for qualification and designation as an SAD.

Condition(s). None.

Standard(s)

(1) Demonstrate proficiency in all requirements identified in SAD-600 through SAD-606.

(2) Successfully complete 80% of the above listed standards.

Reference(s). None.

Prerequisite(s). SAD-606.

External Syllabus Support. External C3 agencies.

2. **SPECIAL QUALIFICATION DESIGNATION**

a. **Purpose**. To designate the TADC as a Senior Air Director (SAD).

b. **General**

(1) **Administrative Notes**

(a) A TADC will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted by the squadron's TAOC and/or WTI Training and Readiness Officer and a recommendation will be staffed to the Commanding Officer.

(c) The TADC shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Full Combat Qualified stage of training.

(b) Completion of the MACCS Academic COI (400 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (1 Event, 0.0 Hours)**

DESG-690 0.0 TAOC

Task. Designation as a Senior Air Director (SAD).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-680.

540. SPECIAL TRAINING REQUIREMENTS

mARINE dIVISION tACTICS cOURSE (MDTC)	MAWTS-1
Strike Fighter Tactics Instructors Course (TOPGUN)	NSAWC

550. EXPENDABLE ORDNANCE REQUIREMENTS. None.

560. PROFICIENCY INTERVALS. Table 5-9, 5-10, 5-11, and 5-12 contain the proficiency intervals for the combat readiness, combat qualification, full-combat qualification, and special skills qualification levels.

Table 5-9. TADC Proficiency Interval for the Combat Readiness Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
GBAD	215	2	-	0.75	X		X		L/S

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	216	4	-	0.75	X		X		L/S
	217	8	-	0.75	X		X	X	L/S
AIC	220	0.5	6	0.75	X		X		S
	221	1.5	6	0.75	X		X		S
	222	1.5	6	0.75	X		X		S
	223	1.5	6	0.75	X		X		S
	224	4	12	0.75	X		X	X	S
	230	4	12	1	X		X		L
	231	4	12	1	X		X		L
	232	4	12	1	X		X		L/S
	233	4	12	1	X		X		L/S
	234	4	12	1	X		X		L/S
	235	8	24	1	X		X	X	L
QUAL	280	8	-	1	X		X	X	L
	281	8	36	2	X		X	X	L
DESG	290	0	-	0					

Table 5-10. TADC Proficiency Interval for the Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
STD	300	8	24	1	X		X		L/S
	301	8	24	1	X		X	X	S
	302	8	24	1	X		X	X	L
SID	310	8	24	2	X		X		L/S
	311	8	24	2	X				L
	312	8	24	2	X		X	X	L/S
	313	8	24	2	X		X	X	L
	314	4	24	2	X		X		L/S

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
QUAL	380	8	36	2	X		X	X	L
QUAL	381	8	36	5	X		X	X	L
DESG	390	0	-	0					
	391	0	-	0					

Table 5-11. TADC Proficiency Interval for the Full-Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SWD	400	8	24	1	X		X		L/S
SWD	401	4	24	1	X		X		S
SWD	402	16	24	1	X		X	X	L
QUAL	480	8	36	2	X		X	X	L
DESG	490	0	-	0					

Table 5-12. TADC Proficiency Interval for the Instructor/Special Skills Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
AICI	500	6	-	0	X		X	X	L
	501	6	-	0	X		X	X	S/L
	502	16	-	0	X		X	X	L
DESG	590	0	-	0					
	591	0	-	0					
	592	0	-	0					
SAD	600	8	12	0	X		X		L
	601	24	12	0	X		X		L
	602	8	12	0	X		X		L/S
	603	16	12	0	X		X		S
	604	8	12	0	X		X		S

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	605	8	12	0	X		X	X	L
	606	16	24	0	X		X		L
QUAL	680	8	36	0	X		X	X	L
DESG	690	0	-	0					

570. EVENT UPDATE CHAINING. Table 5-13, 5-14, and 5-15 contain the event update chaining for the TADC.

Table 5-13. TADC Combat Ready Training Event Update Chaining

EVENTS		EVENTS UPDATED
215		
216		
217		216
220		
221		
222		221
223		221, 222
224		221, 222, 223
230		221, 222
231		221, 222, 223, 230
232		221, 222, 223, 230, 231
233		221, 222, 223, 230, 231
234		221, 222, 223, 230, 231
235		221, 222, 223, 224, 230, 231, 232, 233
280		215, 216, 217
281		221, 222, 223, 224, 230, 231, 232, 233
290		

Table 5-14. TADC Combat Qualification and Full-Combat Ready Training Event Update Chaining

EVENTS		EVENTS UPDATED
300		
301		300

EVENTS		EVENTS UPDATED
302		300, 301
310		
311		
312		310, 311
313		310, 311, 312
314		
380		300, 301, 302
381		310, 311, 312, 313, 314
390		
391		
400		
401		400
402		400, 401
480		400, 401, 402
490		

Table 5-15. TADC Instructor and Special Skills Training Event Update Chaining

EVENTS		EVENTS UPDATED
500		
501		
502		500, 501
590		
591		
592		
600		
601		600
602		300, 310,
603		300, 310, 600, 602
604		300, 310, 600, 602, 603
605		300, 310, 600, 602
606		300, 310, 600, 601, 602, 603, 604, 605
680		300, 310, 600, 601, 602, 603, 604, 605, 606
690		

AIR CONTROL ELECTRONIC OPERATOR (ACEO)
(MOS 7234)

	PARAGRAPH	PAGE
INTRODUCTION	600	6-02
CORE COMPETENCIES/SKILLS.	601	6-02
SUMMARY/INDEX OF LIVE/SIMULATOR EVENTS.	602	6-03
UNIT TRAINING POLICIES.	603	6-06
ACEO TRAINING PROGRESSION PHILOSOPHY	604	6-08
TRAINING PROGRESSION MODEL FOR ACEO	605	6-08
PROGRAMS OF INSTRUCTION (POI) FOR ACEO	606	6-09
SPECIAL DESIGNATIONS.	607	6-10
GROUND/ACADEMIC TRAINING	610	6-10
TRAINING REFERENCES	611	6-14
LIVE/SIMULATOR EVENT TRAINING: ACEO	620	6-15
LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS	630	6-16
COMPONENTS OF A T&R EVENT	631	6-17
COMBAT CAPABLE TRAINING	632	6-18
COMBAT READY TRAINING	633	6-18
COMBAT QUALIFICATION TRAINING	634	6-31
FULL-COMBAT QUALIFICATION TRAINING.	635	6-40
SPECIAL SKILL QUALIFICATION TRAINING	636	6-44
SPECIAL TRAINING REQUIREMENTS	640	6-49
EXPENDABLE ORDNANCE REQUIREMENTS	650	6-49
PROFICIENCY INTERVALS	660	6-49
EVENT UPDATE CHAINING	670	6-52

600. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop UNIT warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective Training and Readiness (T&R) program is the first step in providing the MAGTF Commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, unit training managers can construct and execute an effective training plan which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training to satisfy the training requirements of Commanders at all levels in order to accomplish their war time mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and form the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the Systems Approach to Training used in T&R development and Marine Corps UTM principles.

3. The Marine Corps Combat Readiness Evaluation System (MCCRES) and the T&R program are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills which enable units to satisfy the requirements as outlined in their applicable volume of the MCCRES.

601. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills which support the Mission Essential Tasks (METL) derived from FMFM 5-1 and T/O mission statements, which are realistically expected to be assigned in combat.

2. **MISSION**. Detect, identify and control the intercept of hostile aircraft and missiles and to provide navigational assistance to friendly aircraft in the accomplishment of support missions.

3. **MISSION ESSENTIAL TASK LIST**

a. Conduct amphibious/expeditionary operations to include the capability to phase control ashore.

b. Conduct air surveillance.

c. Conduct combat airspace management.

d. Control surface and airborne weapons systems.

e. Conduct air and theater missile defense weapons systems management.

f. Integrate with MAGTF, joint, and combined airspace command and control systems.

g. Conduct combat operations in an NBC environment.

4. **TAOC CORE CAPABILITY**

a. A core capable TAOC provides command, traffic, weapons, and surveillance sections, and is able to sustain minimum performance on a daily basis during sustained contingency/combat operations. The extent to which a core capable TAOC is able to conduct extended operations or simultaneous TAOC and EW/C operations is manning-level dependent.

b. **TAOC DETACHMENT CREW CONFIGURATION**

(1) Senior Air Director
(1) Senior Weapons Director
(2) Air Intercept Controller
(1) Missile Controller
(2) Assistant Weapons Controller
(1) Senior Traffic Director
(1) Tactical Air Traffic Controller
(1) Surveillance Identification Director
(2) Surveillance Operator
(1) Data Link Coordinator
(1) Systems Configuration Coordinator

602. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. COMBAT CAPABLE TRAINING. The Combat Capable Training summary is contained in the MCCES POI for the TADC.

2. COMBAT READY TRAINING. Table 6-1 contains a listing of the combat readiness training events and associated page numbers.

Table 6-1. Combat Readiness Training List

EVENT	TASK	PAGE
SYS-200	Cable a TAOM System	6-18
SYS-201	Perform TAOM & ECU pallet packup	6-19
SYS-202	Setup a TAOM for operations	6-19
SYS-203	Operate the TAOM	6-20
SYS-204	Perform OLM on the TAOM's RIE	6-20
SYS-205	Perform OLM on the TAOM's DCE	6-21
SYS-206	Perform OLM on the TAOM's IRE/VCE	6-21
SYS-207	Perform OLM on the TAOM's DPE	6-21
SYS-208	Perform OLM on the TAOM's SLE/OLE	6-22
AWC-210	Assist the AIC	6-23

EVENT	TASK	PAGE
AWC-211	Assist the AIC	6-24
AWC-212	Assist the AIC	6-25
AWC-213	Assist the AIC	6-26
SO-220	Conduct Manual Crosstell	6-27
SO-221	Perform as an SO	6-28
SO-222	Perform SO functions	6-28
SO-223	Perform SO functions	6-29
QUAL-280	Evaluation as an AWC	6-29
QUAL-281	Evaluation as an SO	6-30
DESG-290	Designation as an AWC	6-31
QUAL-291	Designation as an SO	6-31

3. COMBAT QUALIFICATION TRAINING. Table 6-2 contains a listing of the combat qualification training events and associated page numbers.

Table 6-2. Combat Qualification Training List

EVENT	TASK	PAGE
DLC-300	Perform DLC functions	6-32
DLC-301	Perform DLC functions	6-32
DLC-302	Perform DLC functions	6-33
DLC-303	Perform DLC functions	6-34
TATC-310	Perform as a TATC	6-35
TATC-311	Perform as a TATC	6-36
TATC-312	Perform as a TATC	6-37
QUAL-380	Evaluation as a DLC	6-38
QUAL-381	Evaluation as a TATC	6-38
DESG-390	Designation as a DLC	6-40
DESG-391	Designation as a TATC	6-40

4. FULL COMBAT QUALIFICATION TRAINING. Table 6-3 contains a listing of the full combat qualification training events and associated page numbers.

Table 6-3. Full Combat Qualification Training List

EVENT	TASK	PAGE
SCC-400	Perform SCC functions	6-41
SCC-401	Perform SCC functions during system setup	6-41
SCC-402	Install/Remove CBR equipment	6-42
SCC-403	Perform SCC functions	6-42
QUAL-480	Qualification as an SCC	6-42
DESG-490	Designation as an SCC	6-43

5. INSTRUCTOR QUALIFICATION TRAINING. None.

6. SPECIAL SKILLS TRAINING AND DESIGNATION. Table 6-4 contains a listing of the special skills training and designation events and associated page numbers.

Table 6-4. Special Skills Training and Designation

EVENT	TASK	PAGE
SID-600	Conduct tactical planning	6-44
SID-601	Maximize RADAR performance	6-45
SID-602	Perform as an SID	6-46
SID-603	Perform as an SID	6-47
SID-604	Perform EW operations	6-47
QUAL-680	Qualification as an SID	6-48
DESG-690	Designation as an SID	6-49

6. OPERATOR CORE SKILLS. Core skills are depicted in the following matrix (table 6-5) and directly support the METL for each Unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 6-5. Core Skills

METLS							
EVENT CODE	A	B	C	D	E	F	G
SYS-200	X	X	X	X			
SYS-201	X	X	X	X			
SYS-202	X	X	X	X			
SYS-203	X	X	X	X			X
SYS-204	X	X	X	X			
SYS-205	X	X	X	X			
SYS-206	X	X	X	X			
SYS-207	X	X	X	X			
SYS-208	X	X	X	X			
AWC-210	X	X		X			
AWC-211	X	X		X			
AWC-212	X	X		X			
AWC-213	X	X		X			
SO-220	X	X				X	

METLS							
EVENT CODE	A	B	C	D	E	F	G
SO-221	X	X				X	
SO-222	X	X				X	
SO-223	X	X				X	
AWC QUAL 280	X			X		X	
SO QUAL 281	X	X				X	
DLC-300	X	X				X	
DLC-301	X	X				X	
DLC-302	X	X				X	
DLC-303	X	X				X	
TATC-310	X	X	X			X	
TATC-311	X	X	X			X	
TATC-312	X	X	X			X	
DLC QUAL-380	X	X					
TATC QUAL-381	X	X	X				
SCC-400	X					X	
SCC-401	X					X	
SCC-402	X					X	
SCC-403	X					X	
SCC QUAL-480	X					X	
SPECIAL SKILLS							
SID-600	X	X			X		
SID-601	X	X			X	X	
SID-602	X	X			X	X	
SID-603	X	X			X	X	
SID-604	X	X			X	X	
SID QUAL-680	X	X			X	X	

603. UNIT TRAINING POLICIES

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Commanding Officers will ensure that this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation unit in combat lies at the heart of the T&R program. Unit readiness and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform those critical skills required in combat is essential.

3. Commanders shall ensure that all tactical training is conducted to a MCCRES standard. The MCCRES, as outlined in MCO P3501.1, is the unit training standard, and all syllabus events shall be tailored to meet MCCRES requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors which all commanders must address include, but are not limited to:

a. **Efficiency**. Time and resources expended are measurements for training efficiency. Commanders must ensure that all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. **Individual Differences**. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. **Decentralization of Training**. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. Commanders shall provide personnel the opportunities to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit.

6. **Risk Management**. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. **MACCS Integrated System Training**. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated airspace command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEX's should focus on the establishment of necessary communications and datalinks between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever

possible. Tactical Digital Information Link capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

604. AIR CONTROL ELECTRONICS OPERATOR TRAINING PROGRESSION PHILOSOPHY. The purpose of this syllabus is to develop and refine those skills required for the Air Control Electronics Operator (ACEO) to function as a Tactical Air Traffic Controller (TATC) and/or Data Link Coordinator (DLC) within a core capable TAOC crew. The progression of the ACEO through the syllabus has been tailored towards that end. It is incumbent upon the squadron commander to ensure that each event is completed in accordance with each performance standard established for that event.

605. ACEO TRAINING PROGRESSION MODEL

1. The Training Progression Model for the ACEO is depicted in figure 6.1.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those qualifications an individual reports to the unit with (accession qualifications) after completion of the MOS-qualifying school. The highest tier of the progression model will contain those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable tier will in most cases be accomplished at the completion of initial MOS skills training. With successful completion of the combat capable tier, unit personnel are assigned basic MOS qualification and progress to the Combat Ready tier.

4. On the Combat Ready tier, qualifications that are normally made available to fairly inexperienced personnel will be delineated. This tier should take the individual who has completed initial MOS skills training and make him or her proficient in core competencies. With successful completion of the combat ready tier, unit personnel move to the Combat Qualification tier.

5. The Combat Qualification tier will be that portion of the model that produces combat leaders and fully qualified crewmembers. The personnel that are being trained in the combat qualification tier are those men/women a Commanding Officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Special Skill Qualification tier will contain special skills, and qualifications. These skills or qualifications are not prerequisite to combat qualification or the ability to function as combat leaders, but are those for which a certain number of trained individuals or crews must be maintained to accomplish special missions or tasks.

a. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the Commanding Officer with oversight of the unit training program.

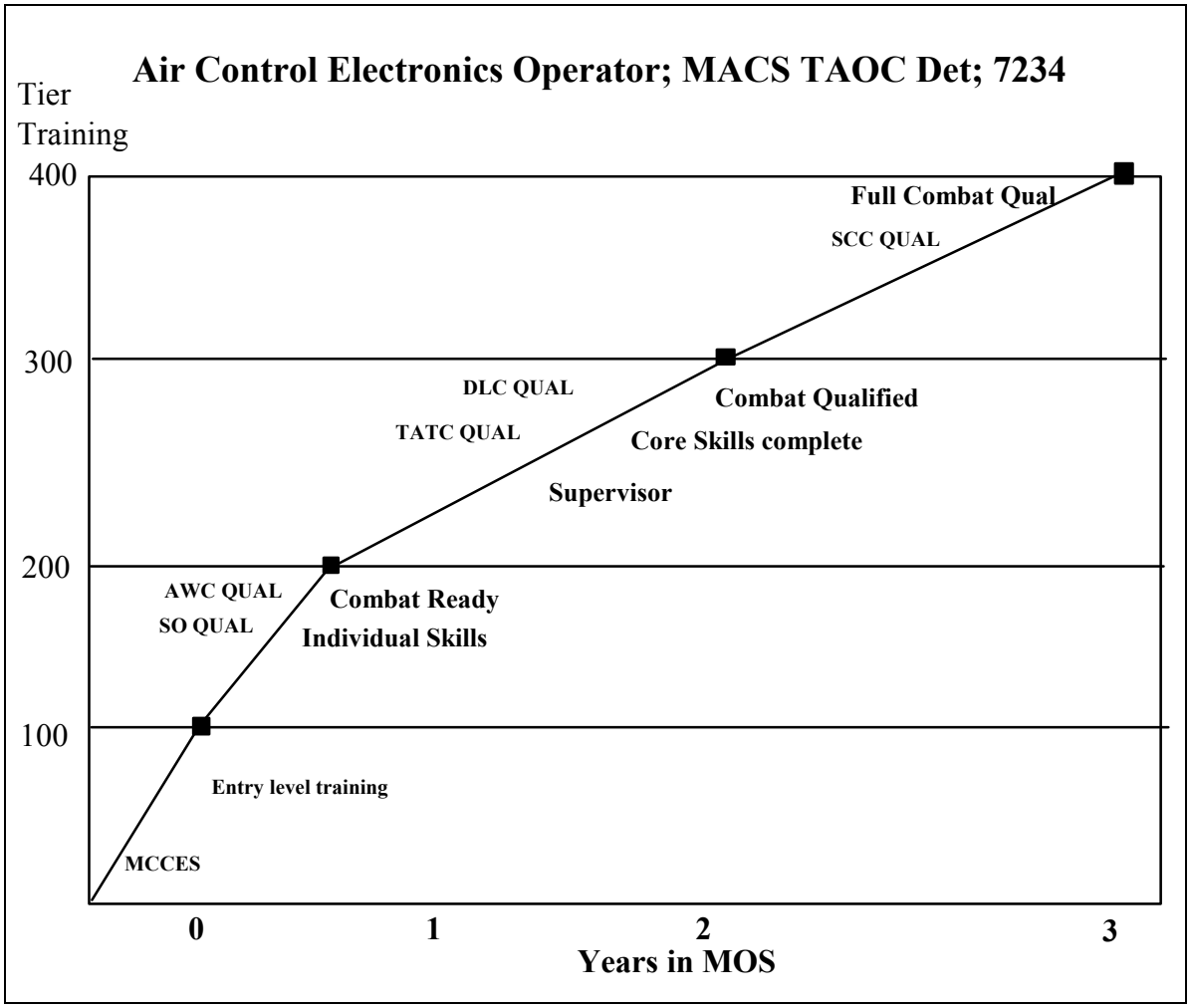


Figure 5.1. Air Control Electronic Operator Training Progression Model

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification of "combat ready" and "combat qualified" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

606. PROGRAMS OF INSTRUCTION (POI) FOR ACEO

1. BASIC ACEO

WEEKS	COURSE/PHASE	ACTIVITY
14	AIR CONTROL ELECTRONICS OPERATORS COURSE (ACEOC)	MCCES

2. **TRANSITION ACEO**

WEEKS	COURSE/PHASE	ACTIVITY
14	AIR CONTROL ELECTRONICS OPERATORS COURSE (ACEOC)	MCCES

3. ACEO refresher training will be accomplished at the individual MACS.

607. SPECIAL DESIGNATIONS

1. **Surveillance Identification Director (SID) Designation**. An ACEO is SID designated after having completed the required events of the Special Skills training phase of this chapter. The ACEO shall be certified by a Combat Qualified TAOC SAD, TAOC WTI or MEWTI and designated by the unit Commanding Officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

610. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 6-6 into their training plans. Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 6-6. Recommended T&R Lectures

Lecture Code	Lecture Title	Sponsor
	200 Level: Combat Ready Training	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES
	The Six Functions of Marine Aviation	
A-03	• Control of Aircraft & Missiles	MAWTS-1 ASP
A-04	• Offensive Air Support	MAWTS-1 ASP
A-05	• Assault Support	MAWTS-1 ASP
A-06	• Electronic Warfare	MAWTS-1 ASP
A-07	• Aerial Reconnaissance	MAWTS-1 ASP
A-08	• Anti-Air Warfare	MAWTS-1 ASP
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	MCCES
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	MAWTS-1 ASP
A-14	MACCS Communications	MAWTS-1 ASP
A-15	CTAPS Overview	MAWTS-1 ASP
A-16	Data Link Symbology	MCCES
A-17	Manual Crosstell procedures	MCCES
A-18	Encryption & Authentication Procedures	MCCES

Lecture Code	Lecture Title	Sponsor
A-19	COMSEC & Crypto handling	MCCES

	300 Level: Combat Qualified Training	
B-01	ASM/SSM Threat	MAWTS-1 ASP
B-02	Fixed Wing Threat	MAWTS-1 ASP
B-03	Rotary Wing Threat	MAWTS-1 ASP
B-04	REC Threat	MAWTS-1 ASP
B-05	Ground Threat	MAWTS-1 ASP
B-06	AOR Specific Threat & OP PLANS	Local MACG
	MACCS Agencies	
B-07	• TACC	MAWTS-1 ASP
B-08	• TAOC	MAWTS-1 ASP
B-09	• DASC	MAWTS-1 ASP
B-10	• ATC Detachment	MAWTS-1 ASP
B-11	• LAAD Bn	MAWTS-1 ASP
B-12	• Air Defense Detachment	MAWTS-1 ASP
B-13	• MWCS	MAWTS-1 ASP
B-14	AEW	MAWTS-1 ASP
B-15	MACCS/Joint Data link	MAWTS-1 ASP
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1 ASP
B-18	Airspace Planning/Management (Combat Airspace)	MAWTS-1 ASP
B-19	Tanker Management	MAWTS-1 ASP
B-20	Armed Reconnaissance	MAWTS-1 ASP
B-21	UAV Programs & Integration	MAWTS-1 WTI *
B-22	Link Architecture & Procedures	MAWTS-1 WTI *
B-23	CSAR/TRAP	MAWTS-1 ASP
B-24	NEO Execution	MAWTS-1 ASP
B-25	Execution Checklist	MAWTS-1 WTI *

	400 Level: Full Combat Qualified Training	
C-01	Integrated Combat Airspace Command & Control ($ICAC^2$)	MAWTS-1 ASP
C-02	Joint Air Operations	MAWTS-1 ASP
C-03	Theater Missile Defense	MAWTS-1 WTI *
C-04	MACCS in support of Special Operations	MAWTS-1 WTI *
C-05	ROE Development	MAWTS-1 WTI *
C-06	SIS Aircraft	MAWTS-1 ASP
C-07	JTAO Procedures	MCCES

(*) The lecture code is standardized throughout all MACCS related syllabi, and are used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may not be listed sequentially.

2. Academic training listed in table 6-7 is recommended for personnel assigned to the TAOC.

Table 6-7. TAOC ACADEMIC SYLLABUS

CODE	CLASS TITLE	SECTION	7210	7236	7234
T-01	AAW DOCTRINE	WEPS/AWC	X	X	X
T-02	ADC RESPONSIBILITIES	WEPS	X	X	
T-03	AI CONTROL AND TACTICAL TERMINOLOGY	WEPS/AWC	X	X	X
T-04	AIR DEFENSE SECTORS	WEPS/AWC	X	X	X
T-05	AIRSPACE MANAGEMENT	TRAF	X	X	X
T-06	ATACC REQUIREMENTS	SAD	X	X	
T-07	ATACC TDC RESPONSIBILITIES	SURV	X	X	
T-08	ATDL-1	SURV	X	X	X
T-09	ATOs AND FRAGs	TRAF/SURV	X	X	X
T-10	BRIEFING AND DEBRIEFING	WEPS	X	X	
T-11	C4I SYSTEMS	TRAF	X	X	X
T-12	CAP MANAGEMENT	WEPS	X	X	
T-13	COMM BREVITY	WEPS	X	X	
T-14	COMPONENT FAULT STATUS	SAD/SCC	X	X	X
T-15	CREW COORDINATION	SAD/SCC	X	X	X
T-16	C&M PANEL	SAD/SCC	X	X	X
T-17	DATA LINK TROUBLESHOOTING	SURV/DLC	X	X	X
T-18	DCE	SURV	X	X	X
T-19	ECHELON OPERATIONS	SAD	X	X	
T-20	EMCON PLANNING AND IMPLEMENTATION	SURV	X	X	
T-21	EMERGENCY PROCEDURES	TRAF/WEPS	X	X	X
T-22	EP CAPABILITIES	SURV/SO	X	X	X
T-23	ERROR CODES	SURV/SO	X	X	X
T-24	FIGHTER MISSIONS	WEPS	X	X	
T-25	GBAD CONFIGURATION	WEPS	X	X	
T-26	GBAD VOICE CONTROL PROCEDURES	WEPS	X	X	
T-27	IADS EMPLOYMENT	WEPS	X	X	
T-28	IDENTIFICATION PROCEDURES	SURV/SO	X	X	X
T-29	INSTRUCTOR BRIEFING PROCEDURES	AICI	X	X	
T-30	INSTRUCTOR DEBRIEFING	AICI	X	X	

CODE	CLASS TITLE	SECTION	7210	7236	7234
T-31	INSTRUCTOR DOCUMENTATION	AICI	X	X	
T-32	INTERCEPT CONTROL	WEPS	X	X	
T-33	INTERFACE COORDINATION	SURV	X	X	X
T-34	JRCC OPERATIONS	TRAF	X	X	
T-35	JTAO DATA LINK OPERATIONS	SURV/DLC	X	X	X
T-36	LINK OPS MESSAGES	SURV/DLC	X	X	X
T-37	MANUAL CROSS-TELL	SURV/WEPS	X	X	X
T-38	OPLANS & OPORDERS	SAD	X	X	
T-39	PHASING CONTROL ASHORE	SAD	X	X	
T-40	RADAR EMPLOYMENT & PERFORMANCE	SURV	X	X	
T-41	RADIO SETUP	SURV/SCC	X	X	X
T-42	RADIO SETUP, RPP/SEPP	TRAF/SCC	X	X	X
T-43	REMOTE RADAR	SURV	X	X	X
T-44	RULES OF ENGAGEMENT (ROE)	WEPS	X	X	X
T-45	SCC RESPONSIBILITIES	SAD/SCC	X	X	X
T-46	SIM OPERATOR (BUG PILOT)	SIM	X	X	X
T-47	SIM SCENARIO REQUIREMENTS	SIM	X	X	X
T-48	SIM SCENARIO TROUBLESHOOTING	SIM	X	X	X
T-49	SIMULATION MASTER RESPONSIBILITIES	SIM	X	X	X
T-50	SIMULATION PROGRAMMING	SIM	X	X	X
T-51	SIMULATION SETUP	SIM	X	X	X
T-52	SURVEILLANCE SECTION BRIEF	SURV	X	X	X
T-53	SURVEILLANCE SECTION COMMUNICATIONS	SURV/SO	X	X	X
T-54	SURVEILLANCE SECTION RESPONSIBILITIES	SURV/SO	X	X	X
T-55	SU/SENSOR REGISTRATION	SURV	X	X	X
T-56	SWD COORDINATION REQUIREMENTS	WEPS	X	X	
T-57	SYSTEM TROUBLESHOOTING	SAD/SCC	X	X	X
T-58	TADIL-A	SURV/DLC	X	X	X
T-59	TADIL-B/NATO LINK 1	SURV/DLC	X	X	X
T-60	TADIL-C OPERATIONS	TRAF/WEPS	X	X	X
T-61	TADIL-J	SURV/DLC	X	X	X
T-62	TANKER MANAGEMENT	TRAF	X	X	X
T-63	TAOC COMMUNICATIONS	SAD/SCC	X	X	X
T-64	TAOC CONFIGURATION CASUALTY MODES	SAD/SCC	X	X	X
T-65	TAOC CREW BRIEF	SAD	X	X	X
T-66	TAOC DATA LINK CAPABILITIES	SURV/DLC	X	X	X
T-67	TAOC EMPLOYMENT & POWER REQUIREMENTS	SAD/SCC	X	X	X
T-68	TAOC REPORTS/FORMATS	SAD/SCC	X	X	X
T-69	TDS PLATFORMS	SURV/DLC	X	X	X
T-70	THEATER AIR GROUND SYSTEM	WEPS	X	X	

CODE	CLASS TITLE	SECTION	7210	7236	7234
T-71	THREAT AIRCRAFT AND MISSILES	WEPS/AWC	X	X	X
T-72	THREAT GROUND AND NAVAL FORCES	WEPS/AWC	X	X	X
T-73	THREAT RANKING & WEAPONS ASSIGNMENT	WEPS/AWC	X	X	X
T-74	THREAT TACTICS	WEPS	X	X	X
T-75	TRAFFIC BRIEF	TRAF	X	X	X
T-76	TRAFFIC COMM PROCEDURES	TRAF	X	X	X
T-77	TRAFFIC SECTION RESPONSIBILITIES	TRAF	X	X	X
T-78	TRAP/SAR	TRAF	X	X	X
T-79	T&R PROGRAM	SAD/AICI	X	X	X
T-80	US/ALLIED AIRCRAFT AND MISSILES	WEPS/AWC	X	X	X
T-81	US/ALLIED GROUND AND NAVAL FORCES	WEPS/AWC	X	X	X
T-82	WEAPONS COMMUNICATIONS	WEPS/AWC	X	X	X
T-83	WEAPONS DATA LINK ORDERS	WEPS/AWC	X	X	X
T-84	WEAPONS MODES OF OPERATIONS	WEPS	X	X	
T-85	WEAPONS SECTION BRIEF	WEPS	X	X	X
T-86	WEAPONS SECTION RESPONSIBILITIES	WEPS/AWC	X	X	X
T-87	WEATHER	TRAF	X	X	X

3. External academic courses of instruction available to complete the syllabus are listed below.

COURSE	ACTIVITY
Multi-TADIL Advanced Joint Interface Course (MAJIC)	FORCECOM
JTIDS Course	FORCECOM
JTIDS Network Design & System Management (JNDSM)	FORCECOM
Joint Aerospace Computer Applications Course	FORCECOM
Joint Aerospace Command and Control Course (JACAC)	FORCECOM
Military Airspace Management Course	FORCECOM

611. TRAINING REFERENCES. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

TITLE	
NWP 22	Air Control in Amphibious Operations
NWP 32	Anti-Air Warfare
MCWP 3-2	Aviation Operations
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook

MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.12	MWCS Handbook
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 6-18	Techniques and Procedures for Fire Support Coord.
OPNAVINST 3710	NATOPS MANUAL
TM-11240 Series	Motor Transport Technical Characteristics
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
JtDivO P3120.23	FSC SOP
ACP-125	Allied Communication Publication
DASC PCL	DASC Pocket Checklist
Joint Pub	JTAO Handbook (Purple book)
Joint Pub 3-56.1	Joint Air Operations Command and Control
	TOPGUN Manual
	AGOS Manual
	Understanding Link 4A/11/16
	Understanding Data Links
MCM 3-1	Threat Reference Manual
	F/A-18 Tactics Manual (TACMAN)

620. LIVE/SIMULATOR EVENT TRAINING: ACEO

1. Combat Capable Training

STAGE	EVENTS	HOURS	PERCENT
ACEOC MCCES			60.00%

2. COMBAT READY STAGE OF TRAINING

STAGE	EVENTS	HOURS	PERCENT
SYSTEM TRAINING	9	19.5	4.50%
ASSISTANT WEAPONS CONTROLLER TRAINING	5	15	4.90%
SURVEILLANCE OPERATOR TRAINING	5	26	5.60%
COMBAT READY TOTALS:	19	60.5	15.00%

3. COMBAT QUALIFICATION STAGE OF TRAINING

STAGE	EVENTS	HOURS	PERCENT
DATA LINK COORDINATOR TRAINING	5	36	12.00%
TACTICAL AIR TRAFFIC CONTROLLER TRAINING	4	20	8.00%
COMBAT QUALIFICATION TOTALS:	9	56	20.00%

4. FULL COMBAT QUALIFICATION STAGE OF TRAINING

STAGE	EVENTS	HOURS	PERCENT
SYSTEM CONFIGURATION COORDINATOR TRAINING	5	50.5	5.00%
FULL COMBAT QUALIFICATION TOTALS:	5	50.5	5.00%

5. **INSTRUCTOR STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
NOT APPLICABLE	0	0	0.00%

6. **SPECIAL SKILLS TRAINING**

STAGE	EVENTS	HOURS	PERCENT
SURVEILLANCE IDENTIFICATION DIRECTOR TRAINING	6	40	0.00%
SPECIAL SKILLS QUALIFICATION TOTALS	6	40	0.00%
MOS 7234 T&R SYLLABUS TOTALS:	**39**	**207**	**100.00%**

630. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. **General**. The majority of the Air Control Electronics Operator syllabus is ground training which requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified Air Control Electronics Operator.

a. **Live Training**. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

b. **Simulator Training**. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted in the Tactical Air Operations Module (TAOM) and the Sector Anti Air Warfare Facility (SAAWF) where applicable. Training not conducted in the TAOM or SAAWF shall be replaced with live training where applicable as indicated in the condition code. A number of the live and simulated events require interaction with external C3 agencies. This interaction/interface is important to the individual, crew, and agency training.

2. **Minimum Performance Time for Syllabus "Write-Off"/Designations**. Personnel may receive credit for successful completion of any syllabus requirement/performance standards (except qualifications) upon either a written, oral, or practical demonstration of proficiency, at the Commanding Officer's discretion. Completion of 80 percent of any syllabus event (except qualifications) may be "written-off" as complete at the discretion of the designated evaluator. Qualifications require a completed performance evaluation, and the designation signed by the Commanding Officer.

3. **Evaluation of Training**. Evaluation of those portions of the syllabus which are academic in nature will be conducted by either written/oral

examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per T&R Manual, Volume 1, and the standardized evaluation forms located in the enclosure to this syllabus.

631. COMPONENTS OF A T&R EVENT

1. **General**. An event contained within a T&R Manual is an Individual or collective training standard and contains seven or eight components, dependent on the tier in which they are contained:

1/	2/	3/	4/	5/	6/
SAM-XXX	**0.5**	**T,C,R,**	**E**	**EQUIP**	**L/S (NS)**

TASK: The title of a unit of work which needs to be done in the performance of a Marine's duties. It is a clearly stated performance-oriented action requiring learned skills and knowledge, i.e. Engage a rotary winged aircraft.

CONDITION(S): The condition(s) set for the real-world or combat circumstances in which the tasks are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this should be stated.

STANDARD(S): The performance standard indicates the basis for judging the effectiveness of the performance. It consists of a carefully worded statement which identifies the proficiency level expected when the task is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

PERFORMANCE STEP(S): *Listed for 100 level T&R events only.* Performance steps are the actions or decisions required to fulfill proficiency established by the standard. The major performance steps which are required to perform the task to proficiency are listed in the order of performance. Minor steps are not listed.

PREREQUISITE(S): Provides a listing of academic training or other T&R events which must be completed prior to satisfying the task.

REFERENCE(S): Listing of doctrinal or reference publications which may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

ORDNANCE: A listing of Ordnance types and quantities required to satisfy the Task.

EXTERNAL SUPPORT REQUIREMENT(S): A listing or description of the external support requirements which may be required to satisfy completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES: 1/ Events are coded per Appendix B of T&R Manual Vol 1.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable Program of Instruction (Basic POI is understood).

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision Device; Where contained within **( )** denotes optional conditions.

632. COMBAT CAPABLE TRAINING

1. COMBAT CAPABLE STAGE. All Combat Capable training (100 series) will be conducted during the ACEOC at MCCES, 29 Palms, CA.

633. C0MBAT READY TRAINING

1. System Training

a. **Purpose**. To develop the skills required to maintain system proficiency on the TAOM.

b. **General**. Contains the tactical and technical information necessary to maintain system proficiency.

c. **Prerequisite**. Completion of Combat Capable (100 Series) Training.

d. **Live Training (9 Events, 19.5 Hours)**

SYS-200 2.0 T C R TAOC L

Task. Cable a TAOM system.

Condition(s). Given two or more TAOMs and two or more RADARS.

Standard(s). Perform system cabling to include:

(1) DDB/VCB cabling.

(2) Multi-radar cabling.

(3) Power and ECU pallet cabling.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-201 3.0 T C R TAOC L

Task. Perform TAOM and ECU pallet pack up.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s). Prepare the TAOM for transport by performing the following actions:

(1) Remove and pack up TAOM and all appropriate equipment on the ECU pallet.

(2) Attach M-1022 Mobilizer as required to the TAOM.

(3) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-202 3.0 T C R TAOC L

Task. Setup a TAOM for operations.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s). Properly set up a TAOM, ECU pallet, and external communications equipment as required.

(1) Unpack and attach roof mount antennas.

(2) Attach ECU ducting.

(3) Erect ground antennas.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-203 1.5 T C R TAOC L

Task. Operate the TAOM.

Condition(s). Operate in a simulated NBC environment using MOPP and CBR equipment.

Standard(s)

(1) Operate one TAOM with the CBR unit attached.

(2) Conduct MOPP gear exchange during crew rotation.

(3) Perform crew requirements while in MOPP level four.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). NBCD training and MOPP level exchange.

External Syllabus Support. None.

SYS-204 2.0 T C R TAOC L

Task. Perform organizational level maintenance (OLM) on the TAOM’s RIE.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s)

(1) Perform fault isolation to the lowest replaceable item (LRI).

(2) Repair or replace any required part.

(3) Demonstrate the ability to perform preventive maintenance (PM) on all RIE.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-205 2.0 T C R TAOC L

Task. Perform organizational level maintenance (OLM) on the TAOM's DCE.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s)

(1) Perform fault isolation to the lowest replaceable item (LRI).

(2) Repair or replace any required part.

(3) Demonstrate the ability to perform preventive maintenance (PM) on all DCE.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-206 2.0 T C R TAOC L

Task. Perform organizational level maintenance (OLM) on the TAOM's IRE/VCE.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s)

(1) Perform fault isolation to the lowest replaceable item (LRI).

(2) Repair or replace any required part.

(3) Demonstrate the ability to perform preventive maintenance (PM) on all IRE/VCE.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-207 2.0 T C R TAOC L

Task. Perform organizational level maintenance (OLM) on the TAOM's DPE.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s)

(1) Perform fault isolation to the lowest replaceable item (LRI).

(2) Repair or replace any required part.

(3) Demonstrate the ability to perform preventive maintenance (PM) on all DPE.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite(s). None.

External Syllabus Support. None.

SYS-208 2.0 T C R TAOC L

Task. Perform organizational level maintenance (OLM) on the TAOM's SLE/OLE.

Condition(s). With SL3 tools in garrison or deployed.

Standard(s)

(1) Perform fault isolation to the lowest replaceable item (LRI).

(2) Repair or replace any required part.

(3) Demonstrate the ability to perform preventive maintenance (PM) on all SLE.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCCES POI and TAOM TM's.

Prerequisite. Completion of the Combat Ready Stage of training.

External Syllabus Support. None.

2. **Assistant Weapons Controller (AWC) Training**

a. **Purpose**. To refine the ACEO's skills required for the Assistant Weapons Controller (AWC), and to provide a means for a designated AWC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions required for AWC qualification, and gain proficiency and maintain currency on TAOC system training.

(b) During each AWC event the ACEO must demonstrate proficiency in passing threat information, maintaining situational awareness (S/A), using the proper report formats, and functioning as a member of the Weapons Section.

(c) Combat Ready and Combat Qualification training can be conducted concurrently.

(d) For evaluation purposes, a mission will consist of a brief, execution and debrief of each event.

(e) A comprehensive brief and debrief will be conducted for each mission IAW the squadron SOPs (based on TOPGUN, and F/A-18 TACMAN guidelines).

(f) The AWC will become proficient in assisting the AIC/MC during live and simulated integrated air defense exercises with multiple fighters/Firing Units (FU) in a dynamic threat environment.

(g) Two-way TADIL-C/Link 4A will be used to the fullest extent possible for each event controlled.

(2) **Prerequisite(s)**. Completion of the Combat Capable stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified ACEO has been absent from an ACEO billet for 16 months or longer. Upon return to an appropriate billet the ACEO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent TAOC crew will be required for the exercise events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (5 Events, 15.0 Hours)**

AWC-210 1.5 T R TAOC S/L

Task. Assist the AIC.

Conditions. During a section Fighter Intercept mission against a dynamic threat.

Standards. Demonstrate proficiency in the following areas:

(1) Entering all data base (DB) items required for the mission.

(2) Symbol management to include assignments, join-ups, and TADIL-C/Link 4A functions.

(3) Updating all aircraft information in the ADS-1 display.

(4) Providing the AIC with information on the threat to include:

- Number of groups.
- Target altitude.
- Target heading.
- Formation and tactics.
- Target aspect (hot, cold, capping, etc.).

(5) Update threat ranking as directed.

(6) Advise the AIC of any items affecting flight safety, i.e., factor traffic/airspace boundaries.

(7) Assist the AIC to successfully complete the squadron SOP checklist for an aircraft emergency.

- Determine the nature of the emergency.
- Determine the last known speed and heading.
- Identify and triangulate position of the aircraft with the emergency.
- Using proper switchology, establish emergency fix as appropriate.

(8) Performing applicable functions in the AT/WPS FFS.

(9) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). Academics: T-03, T-21, T-41, T-60, T-86.

External Syllabus Support. None.

AWC-211 1.5 T R TAOC S/L

Task. Assist the AIC.

Condition(s). During a division Fighter Intercept (FI) mission against a dynamic threat.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in AWC-210.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s)

(1) AWC-210.

(2) Academics: T-44, T80.

External Syllabus Support. None.

AWC-212 **2.0** **T R** **TAOC** **L**

Task. Assist the AIC.

Condition(s). During a 2 v X mission against a dynamic threat.

Standard(s). Demonstrate proficiency in the following areas:

(1) Entering all DB items required for the mission.

(2) Symbol management to include assignments, join-ups, and TADIL-C/Link 4A functions.

(3) Updating all aircraft information in the ADS-1 display.

(4) Providing the AIC with information on the threat to include:

- Number of groups.
- Target altitude.
- Target heading.
- Formation and tactics.
- Target aspect (hot, cold, capping, etc.),

(5) Update threat ranking as directed.

(6) Advise the AIC of any items affecting flight safety, i.e. factor traffic/airspace boundaries.

(7) All applicable function in the AT/WPS FFS.

(8) In the event of an emergency, be prepared to assist the AIC to successfully complete the squadron SOP checklist.

(9) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s). AWC-210.

External Syllabus Support. Fighter and aggressor aircraft.

AWC-213 **2.0** **T R** **TAOC** **L**

Task. Assist the AIC.

Condition(s). During a 4 v X mission against a dynamic threat.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in AWC-212.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25/.1/.2/.3/.7/.9/.10, MCM 3-1, NWP 32, TOPGUN Manual, MAWTS-1 ASP.

Prerequisite(s)

(1) AWC-211.

(2) Academics: T-04, T-74.

External Syllabus Support. Fighter and aggressor aircraft.

3. **Surveillance Operator (SO) Training**

a. **Purpose**. To refine the ACEO's skills required for the Surveillance Operator (SO), and to provide a means for a designated SO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions required for SO qualification, and gain proficiency and maintain currency on TAOC system training.

(b) During each SO event the ACEO must demonstrate proficiency in passing threat information, maintaining situational awareness (S/A), using the proper report formats, and functioning as a member of the Surveillance Section.

(c) Prior to all events (including SIM) ensure all required Surveillance DB items are entered.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(e) All SO events will be supervised by a qualified SID or higher.

(2) **Prerequisite(s)**. Completion of the Combat Capable stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified ACEO has been absent from an ACEO billet for 16 months or longer. Upon return to an appropriate billet the ACEO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent TAOC crew will be required for the exercise events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (5 Events, 26.0 Hours)**

SO-220	2.0	T R	TAOC	L/S

Task. Conduct manual crosstell.

Condition(s). With an external agency or the SAAWC Facility.

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter the appropriate reference system in the DB via a map/overlay.

(2) When directed by the SID, use the established/published crosstell format to pass track information on the appropriate net.

(3) Post and maintain non-real time (NRT) rate aided tracks based on information received from external agencies.

(4) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25, MCWP 3-25.10.

Prerequisite(s). Academics: T-23, T-28, T-37.

External Syllabus Support. External C^3 agencies or SAAWC Facility.

SO-221 4.0 T R TAOC S/L

Task. Perform as an SO.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter all appropriate Surveillance DB entries to include:

- Local/Remote radars.
- Special points or corridors.
- IFF/SIF codes.
- Auto ID parameters.
- Applicable map/overlay features.

(2) Executing briefed ID and classification procedures to include:

- Correlating SIF codes with published directives.
- Interrogate Mode IV and post results as required.
- Adhering to the published ID criteria/ROE when evaluating unknown tracks.
- Timely classification of tracks IAW SIDs direction.

(3) Symbol management focusing on data entry/updating.

(4) Conducting manual crosstell as directed.

(5) Compile and forward any applicable reports.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25, MCWP 3-25.10, MCWP 3-35.7.

Prerequisite(s)

(1) SO-220.

(2) Acdemics: T-09, T-53, T-54.

External Syllabus Support. External C^3 agencies or SAAWC Facility.

SO-222 4.0 T R TAOC L/S

Task. Perform SO functions.

Condition(s). During data link operations.

Standard(s). Demonstrate proficiency in the following areas:

(1) All requirements identified in SO-221, in addition to operating in a data link environment.

(2) Symbology management to include classification of tracks and dual track resolution.

(3) Respond to data link orders as directed by the DLC/SID.

(4) Conducting manual crosstell as directed.

(5) Assist the DLC/SID with link management functions as directed.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25, MCWP 3-25.10, MCWP 3-35.7

Prerequisite(s). SO-221.

External Syllabus Support. External C3 agencies.

SO-223 8.0 T R TAOC S/L

Task. Perform SO functions.

Condition(s). In an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in SO-221 & SO-222.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25, MCWP 3-25.10, MCWP 3-35.7.

Prerequisite(s). SO-222.

External Syllabus Support. External C3 surveillance platforms.

QUAL-280 8.0 T R E TAOC L

Task. To be evaluated for qualification as an AWC.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in AWC-212.

(2) Successfully complete 80% of the above listed standards.

Reference(s). None.

Prerequisite(s). AWC-212 & AWC-213.

External Syllabus. Fighter and aggressor aircraft.

QUAL-281 8.0 T R E TAOC L

Task. To be evaluated for qualification as an SO.

Condition(s). In an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in SO-223.

(2) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3-25, MCWP 3-25.10, MCWP 3-35.7.

Prerequisite(s). SO-223.

External Syllabus Support. External C3 agencies.

4. **COMBAT READY DESIGNATIONS**

a. **Purpose**. To designate the ACEO as an Assistant Weapons Controller (AWC) and a Surveillance Operator (SO).

b. **General**

(1) **Administrative Notes**

(a) An ACEO will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted by the squadron's TAOC Officer and/or WTI Training and Readiness Officer and a recommendation will be staffed to the Commanding Officer.

(c) The ACEO shall have a designation letter awarded, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Combat Capable stage of training.

(b) Completion of the MACCS Academic COI (200 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. TAOC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Designation Events (2 Events, 0.0 Hours)**

DESG-290 **0.0** **TAOC**

Task. Designation as an Assistant Weapons Controller (AWC).

Condition(s). None.

Standard(s). None.

Prerequisite. QUAL-280.

DESG-291 **0.0** **TAOC**

Task. Designation as a Surveillance Operator (SO).

Condition(s). None.

Standard(s). None.

Prerequisite(s). QUAL-281.

634. COMBAT QUALIFICATION TRAINING

1. **Data Link Coordinator Training**

a. **Purpose**. To refine the ACEO's skills required for the Data Link Coordinator qualification and to provide a means for the ACEO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for DLC qualification.

(b) During each period, the ACEO must demonstrate proficiency in setting up data link equipment for the TAOM and making DB related entries required for data link operations and functioning as a member of the Surveillance Section.

(c) At least one live and one simulated DLC performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Completion of the Combat Capable stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified ACEO has been absent from an ACEO billet for 16 months or longer. Upon return to an appropriate billet the ACEO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent TAOC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (5 Events, 36.0 Hours)**

DLC-300 8.0 T R TAOC L/S

Task. Perform DLC functions.

Condition(s). In garrison or in the field, with a serial link (TADIL-B, NATO Link-1).

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter required DB entries.

(2) Activate, determine the status of, and trouble shoot each link as applicable.

(3) Perform order functions associated with the appropriate link.

(4) Perform link management functions.

(5) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links.

Prerequisite(s). Academics: T-17, T-18, T-35, T-36, T-59, T-66, T-69.

External Syllabus Support. External C3 agencies.

DLC-301 8.0 T R TAOC L/S

Task. Perform DLC functions.

Condition(s). While participating in a live netted data link (TADIL-A/Link 11).

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter required DB entries.

(2) Activate, determine the status of, and trouble shoot each link as applicable.

(3) Perform a POFA test.

(4) Operate in the following modes:

- Radio Silent (RADSIL).
- Net Control Station (NCS).
- Picket.

(5) Perform link management functions IAW SID's direction.

(6) Perform data link coordination responsibilities over designated voice nets.

(7) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11.

Prerequisite(s)

(1) DLC-300.

(2) Academics: T-18, T-35, T-36, T-58.

External Syllabus Support. JTAO data link platform(s).

DLC-302 8.0 T R TAOC L/S

Task. Perform DLC functions.

Condition(s). In a nodeless link environment (TADIL-J/Link-16).

Standard(s). Demonstrate proficiency in the following areas:

(1) Refer to paragraph 634.1.b.

(2) Achieve network synchronization, enter TADIL-J/Link-16 net, determine the status of, and trouble shoot the link as applicable.

(3) Conduct passive operations utilizing passive synchronization.

(4) Perform TADIL-J/Link-16 operations in a multiple net/stacked net evolution.

(5) Establish TAOC TADIL-J/Link-16 as Network Time Reference (NTR).

(6) Establish proper Interference Protection Feature (IPF) establish Normal (200 watts), Exercise Override (1000 watts), or Combat Override IPF as required.

(7) Extract correct data from Network Design Load (NDL) and enter into DB.

(8) Extract correct Network Participation Group (NPG) from the OPTASK LINK and NDL for entry into the DB.

(9) Enter appropriate data filters as listed in OPTASK LINK.

(10) Set-up and trouble shooting of JTIDS Module and associated JTIDS equipment.

(11) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, Understanding Link-16.

Prerequisites

(1) DLC-300.

(2) Academics: T-35, T-36, T-61.

External Syllabus Support. TADIL-J/Link-16 capable external C3 agencies.

DLC-303 4.0 T R E TAOC L/S

Task. Perform as a DLC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Brief the link critical information during the TAOC crew brief.

(2) Ensure data link DB entries are entered and correct.

(3) Ensure TAOC data link equipment is set up/keyed.

(4) Ensure required DL filters are entered and activated.

(5) Perform link trouble shooting and take corrective action as required.

(6) Perform link management functions IAW the SID’s direction.

(7) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, Understanding Link-16.

Prerequisite(s). DLC-300, 301, and 302.

External Syllabus Support. External C3 agencies.

External Syllabus Support. External C3 agencies.

2. **Tactical Air Traffic Controller (TATC) Training**

a. **Purpose**. To refine the ACEO's skills required for designation as a TATC and provide a means for the designated TATC to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for TATC qualification.

(b) During each period, the ACEO must demonstrate proficiency in passing threat information, maintaining Situation Awareness, utilization of proper report formats, voice and data communication procedures, and functioning as a member of the Traffic Section.

(c) At least one live and one simulated TATC performance event will be conducted during an exercise.

(d) Combat Ready and Combat Qualification training can be conducted concurrently.

(2) **Prerequisite**. Completion of the Combat Capable stage of training.

(3) **Refresher Training**. Refresher training is required once a combat qualified ACEO has been absent from an ACEO billet for 16 months or longer. Upon return to an appropriate billet the ACEO will complete the "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. A core competent TAOC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (4 Events, 20.0 Hours)**

TATC-310 4.0 T R TAOC S

Task. Perform as a TATC.

Condition(s). During an exercise.

Standard(s). To demonstrate proficiency in the following areas:

(1) Enter and maintain the Traffic DB per the STD's directions.

(2) RIO aircraft, to include a SALT brief.

(3) Conduct SIF/Mode IV checks on all applicable aircraft.

(4) Initiate and maintain TADIL-C/Link 4A for capable aircraft until a handover is accomplished.

(5) Conduct external/internal handovers of aircraft as required.

(6) Coordinate Aerial Refueling (AR) operations.

-Place tanker on the appropriate track and provide flight following as required.

-Execute the Slide/Retrograde plan as the threat dictates or per the direction of the STD.

-Monitor, record, and report tanker fuel status.

-Vector aircraft to the tanker and continue to monitor the fuel state of the enroute aircraft.

-Vector aircraft departing the tanker to a fragged, or coordinated, control point (CP) and initiate a handover with the appropriate controller/agency.

(7) Maintain proper symbol management.

(8) Maintain appropriate Traffic Section logs.

(9) Assist the STD as required in traffic management functions.

(10) Successfully complete 80% of the above listed standards.

Reference(s). FM 100-42, Understanding Link-4A, DASC Handbook

Prerequisite(s). Local Area Operating Procedures academics/test.

External Syllabus Support. Fixed/Rotary wing aircraft.

TATC-311 4.0 T R TAOC L

Task. Perform TATC functions.

Condition(s). In garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Local operating procedures to include:

- Emergency.
- Search and Rescue (SAR).
- Warning/Restricted Areas.

(2) Local check-in procedures and proper use of air control communications.

(3) Providing flight following with an emphasis on traffic deconfliction.

(4) TADIL-C/Link-4A initialization and usage with capable aircraft.

(5) Proper symbology management until a handover is accomplished.

(6) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, Understanding Link-16.

Prerequisite(s)

(1) Local Area Operating Procedures academics/test.

(2) Academics: T-21, T-76.

External Syllabus Support. Aircraft.

TATC-312 4.0 T R E TAOC L/S

Task. Perform as a TATC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter and maintain the Traffic DB per the STD's directions.

(2) RIO aircraft, to include a SALT brief.

(3) Conduct SIF/Mode IV checks on applicable aircraft.

(4) Initiate and maintain TADIL-C/Link-4A for capable aircraft until a handover is accomplished, or as directed.

(5) Conduct external/internal handovers of all aircraft as required.

(6) Coordinate Aerial Refueling (AR) operations.

-Place tanker on the appropriate track and provide flight following as required.

-Execute the Slide/Retrograde plan as the threat dictates or per the direction of the STD.

-Monitor, record, and report tanker fuel status.

-Vector aircraft to the tanker and continue to monitor the fuel state of the enroute aircraft.

-Vector aircraft departing the tanker to a fragged, or coordinated control point (CP) and initiate a handover with the appropriate controller/agency.

(7) Maintain proper symbol management.

(8) Maintain appropriate logs.

(9) Assist the STD as required in traffic management functions.

(10) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, Understanding Link-16, MWCP 3-25.8.

Prerequisite(s). TATC-311.

External Syllabus Support. External C3 agencies and Fixed/rotary wing aircraft.

QUAL-380 8.0 T R E TAOC L

Task. Evaluate the ACEO for qualification as a DLC.

Condition(s). During an exercise.

Standard(s)

(1) Demonstrate proficiency in the requirements identified in DLC-303.

(2) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, Understanding Link-16.

Prerequisite(s). DLC-303.

QUAL-381 8.0 T R E TAOC L

Task. Evaluate for qualification as a TATC.

Condition(s). In an exercise.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in TATC-311 and 312.

(2) Successfully complete 80% of the above listed standards.

Reference(s). JTAO Handbook, Understanding Data Links, Understanding Link-11, Understanding Link-16, MWCP 3-25.8.

Prerequisite(s). TATC-312.

External Syllabus Support. None.

3. COMBAT QUALIFIED DESIGNATIONS

a. **Purpose**. To designate the ACEO as a Data Link Coordinator (DLC) and a Tactical Air Traffic Controller (TATC).

b. **General**

(1) **Administrative Notes**

(a) Combat Qualification Training will consist of planning for and execution of an Anti-Air Warfare (AAW) mission in an exercise.

(b) An ACEO will be considered for designation upon completion of all events contained within the three phases of training (academic, performance, and evaluation).

(c) A review of the MPR will be conducted by the squadron's TAOC and/or WTI Training and Readiness Officer and a recommendation will be staffed to the Commanding Officer.

(d) The ACEO shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Combat Capable stage of training.

(b) Completion of the MACCS Academic COI (300 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (2 Events, 0.0 Hours)**

DESG-390 **0.0** **TAOC**

Task. Designation as a Data Link Coordinator (DLC).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-380.

DESG-391 **0.0** **TAOC**

Task. Designation as a Tactical Air Traffic Controller (TATC).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-381.

635. FULL COMBAT QUALIFICATION TRAINING

1. **SYSTEM CONFIGURATION COORDINATOR TRAINING**

a. **Purpose**. To refine the ACEO'S skills required for the System Configuration Coordinator (SCC) qualification and to provide a means for an ACEO to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for SCC qualification.

(b) During each period, the ACEO must demonstrate proficiency in system troubleshooting and maintenance of the TAOM, ECU pallet, and other equipment organic to the TAOM, and to function as a key member of the TAOC crew supporting the Command Section.

(c) At least one live SCC performance event will be conducted with a full TAOC crew.

(2) **Prerequisite(s)**. Completion of the Combat Qualification stage of training.

c. **Crew Requirements**. A core competent TAOC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (5 Events, 50.5 Hours)**

SCC-400 24.0 T R TAOC L

Task. Perform SCC functions.

Condition(s). During daily non-exercise operations.

Standard(s). Demonstrate proficiency in the accomplishment/ supervision of the following:

(1) System set up and initialization.

(2) Keying of all crypto.

(3) Appropriate DB is loaded.

(4) Ability to trouble shoot and fault isolate the components of the seven major equipment groups of the TAOC to the LRI and take appropriate actions on all operator alerts, OCU errors, and printer codes.

(5) Knowledge and skills necessary to ensure continuity of operations by reconfiguring the system around faulted units.

(6) Maintaining all SCC/crew maintenance logs.

Reference(s). None

Prerequisite(s). None.

External Syllabus Support. None.

SCC-401 8.0 T R TAOC L

Task. Train the SCC in the supervision requirements for preparing the TAOM for embarkation and set-up.

Condition(s). Accomplished in garrison or in the field.

Standard(s). Demonstrate proficiency in the following areas:

(1) Proper pack up of the TAOM and all associated equipment.

(2) Staging and loading of the TAOM/ECU pallets.

(3) Off loading and placement of the TAOM/ECU pallets.

(4) Unpacking of the TAOM/ECU pallets and the set up and cabling of equipment to include external communications and RADAR.

(5) Echeloning in or out of TAOMs and voice/data circuits.

Reference(s). None.

Prerequisite(s). None.

External Syllabus Support. None.

SCC-402 **2.5** **T C R** **TAOC** **L**

Task. Correctly install and remove the TAOM CBR equipment.

Condition(s). Accomplished in garrison or in the field.

Standard(s). Demonstrate the procedures to install and remove the TAOM CBR equipment.

(1) Correctly cable the CBR.

(2) Set up TAOM and pallet assembly for NBC operations.

(3) Activate/deactivate CBR equipment.

(4) Remove and packup CBR equipment.

Reference(s). None.

Prerequisite(s). None

External Syllabus Support. None.

SCC-403 **8.0** **T R E** **TAOC** **L**

Task. Perform as an SCC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Brief the system configuration portion of the TAOC crew brief IAW the TAOC PCL.

(2) All requirements identified in SCC-400.

Reference(s). None.

Prerequisite(s). SCC-400 and SCC-401.

External Syllabus Support. None.

QUAL-480 **8.0** **T R E** **TAOC** **L**

Task. Evaluate the ACEO for qualification as an SCC.

Condition(s). During an exercise.

Standard(s). Demonstrate proficiency in the following areas:

(1) Brief the system configuration portion of the TAOC crew brief IAW the TAOC PCL.

(2) All requirements identified in SCC-400, 401, 402 and 403.

Reference(s). None.

Prerequisite(s). SCC-403.

External Syllabus Support. None.

2. **FULL COMBAT QUALIFICATION DESIGNATION.**

a. **Purpose**. To designate the ACEO as an SCC.

b. **General**

(1) **Administrative Notes**

(a) An ACEO will be considered for designation upon completion of all events contained with the three phases of training (academic, performance, and evaluation).

(b) A review of the MPR will be conducted by the squadron's TAOC and/or WTI Training and Readiness Officer and a recommendation will be staffed to the Commanding Officer.

(c) The TADC shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(d) Upon completion of this portion of the training syllabus, an Air Control Electronics Operator will be 100% trained and Fully Combat Qualified.

(2) **Prerequisite(s)**

(a) Completion of the Combat Qualification stage of training.

(b) Completion of the MACCS Academic COI (400 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Designation Events (1 Event, 0.0 Hours)**

DESG-490 0.0 TAOC

Task. Designation as a System Configuration Coordinator (SCC).

Condition(s). None.

Standard(s). None.

Reference(s). None.

Prerequisite(s). QUAL-480.

636. SPECIAL SKILL QUALIFICATION TRAINING

1. SURVEILLANCE IDENTIFICATION DIRECTOR TRAINING

a. **Purpose**. To refine the ACEO'S skills required for the Surveillance Identification Director (SID) Qualification to provide a means for a designated SID to remain current.

b. **General**

(1) **Administrative Notes**

(a) Perform all functions for SID qualification.

(b) During each period, the ACEO must demonstrate proficiency in passing threat information, maintaining Situation Awareness (SA), using the proper report formats, and functioning as the director of the Surveillance Section.

(c) At least one live and one simulated SID performance event will be conducted during an exercise.

(2) **Prerequisite(s)**

(a) Completion of the Combat Capable stage of training.

(b) **All general items listed in paragraph 634.1 (DLC) apply**.

c. **Crew Requirements**. A core competent TAOC crew will be required for the higher level evaluated events.

d. **Academic Training**. Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited for follow on training events.

e. **Live and Simulator Event Training (6 Events, 54.0 Hours)**

SID-600	8.0	T R	TAOC	L/S

Task. Conduct tactical planning for the Surveillance Section.

Condition(s). In a garrison/field environment with appropriate exercise documentation.

Standard(s). Demonstrate proficiency with the following considerations associated with planning an exercise.

(1) Identify potential gaps in coverage due to terrain masking and RADAR horizon limitations, and recommend emplacement/ employment of TAOC RADARs.

(2) Conduct coordination with subordinate, adjacent, and higher units for data link architecture and implementation IAW the OPTASK Link.

(3) Extract the ID matrix IAW published ROE, OPORDER, ACP, or ACO.

(4) Conduct a detailed threat analysis.

(5) Identify the Surveillance Section communications requirements and assignments.

(6) Recommend the TAOC's and subordinate agencies' EMCON plan (COMM/RADCON) based on OPORDER, ACP, and ACO direction.

(7) Identify Surveillance Operator (SO) and DLC responsibilities.

(8) Plan for the employment of a remote RADAR.

(9) Identify Surveillance DB requirements.

(10) Preparing the Surveillance Section crew brief IAW the TAOC PCL and MCCRES standards.

(11) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-07, T-08, T-09, T-17, T-20, T-33, T-36, T-40, T-43, T-52, T-58, T-59, T-61, T-66, T-69.

External Syllabus Support. Required planning documents.

SID-601 8.0 T R TAOC L

Task. Maximize RADAR performance.

Condition(s). In a garrison/field environment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Recommend RADAR site selection.

(2) Perform RADAR alignment.

(3) Perform RADAR registration.

(4) Conduct coordination to optimize performance of selected RADARS.

(5) Recommend a RADAR degradation plan.

(6) Develop a RADAR coverage diagram for system RADARs.

(7) Conduct remote RADAR operations.

(8) Plan for AN/TPS-59 decoy employment.

(9) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-40, T-43, T-55.

External Syllabus Support. None.

SID-602 8.0 T R E TAOC L/S

Task. Perform as an SID.

Condition(s). In a garrison/field exercise environment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Conduct a detailed crew brief developed IAW the pertinent air operations information received via the TAOC Operations Brief/ MACCS Commander's brief. The brief will be conducted IAW the TAOC PCL and MCCRES standards.

(2) Supervise surveillance data base entries including EMCON, data links, radar performance, MRRs, and ID corridors.

(3) Supervise the air surveillance of the assigned sector.

(4) Supervise the implementation of the established ID criteria and subsequent classification process.

(5) Supervise initialization and management of data links.

(6) Perform detailed casualty procedure planning in order to assume the functions of the Track Data Coordinator (TDC) or Interface Coordination Officer (ICO) when operating as the alternate TACC.

(7) Manage the EP/EMCON plan for the TAOC and subordinate agencies.

(8) Perform appropriate VFS/OS functions associated with surveillance.

(9) Implement the published manual crosstell procedures.

(10) Manage the Surveillance Section IAW the SAD's direction.

(11) Compile and forward applicable reports.

(12) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). SID-600 and 601.

External Syllabus Support. External C3 agencies.

SID-603 8.0 T R E TAOC L

Task. Perform as a SID.

Condition(s). In a garrison/field exercise environment.

Standard(s)

(1) Demonstrate proficiency in all the requirements identified in SID-236.

(2) Conduct surveillance planning and operations with a non-MACCS JTAO platform.

(3) Successfully complete 80% of the above listed requirement.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). SID-602.

External Syllabus Support. External C3 agencies.

SID-604 4.0 T R TAOC L/S

Task. Perform Electronic Warfare (EW) operations.

Condition(s). In a garrison/field environment using TAOC equipment.

Standard(s). Demonstrate proficiency in the following areas:

(1) Enter the TAOC EMCON plan and missile thresholds in the DB.

(2) Detecting, identifying, and reporting any jamming to the SAD.

(3) Fixing the location of threat jammers with proper symbology (strobes/air tracks).

(4) Reacting to the EMCON alert and implementing the TAOC EMCON plan per the SAD's direction.

(5) Conduct coordination with the RADAR tech to optimize RADAR performance in an EW environment.

(6) Successfully complete 80% of the above listed standards.

Reference(s). MCWP 3.25, MCWP 3-25.2, MCWP 3-25.3, MCWP 3-25.7, JTAO Handbook, Understanding Link 4A/11/16 Handbook, MAWTS-1 ASP.

Prerequisite(s). Academics: T-20, T-22, T-40.

External Syllabus Support. Applicable platforms.

QUAL-680 8.0 T R E TAOC L

Task. Evaluate the ACEO for qualification as an STD.

Condition(s). During a garrison/field exercise.

Standard(s).

(1) Demonstrate proficiency in the requirements identified in SID-603 and 604.

(2) Successfully complete 80% of the above listed standards.

Reference(s). None.

Prerequisite(s). SID-603 and 604.

External Syllabus Support. External C3 agencies.

2. SPECIAL SKILLS DESIGNATIONS

a. **Purpose**. To designate the ACEO as a Surveillance Identification Director (SID) .

b. **General**

(1) **Administrative Notes**

(a) An ACEO will be considered for designation upon completion of all events contained with the three phases of training academic, performance, and evaluation).

(b) A review of the MPR will be conducted by the squadron's TAOC and/or WTI Training and Readiness Officer and a recommendation will be staffed to the Commanding Officer.

(c) The ACEO shall have a designation letter, with any waivers deferments or endorsements, and will be filed in their MACCS Performance Record.

(2) **Prerequisite(s)**

(a) Completion of the Full Combat Qualified stage of training.

(b) Completion of the MACCS Academic COI (400 level), as well as performance and qualification events.

c. **Crew Requirements**. None.

d. **Academic Training**. TAOC specific academic training is designed to support live/simulated training events and is accomplished as a prerequisite to individual performance events.

e. **Designation Events (2 Events, 0.0 Hours)**

DESG-691 0.0 TAOC

Task. Designation as a Surveillance Identification Director (SID).

Condition(s). None.

Standard(s). Completion of Academic COI, performance, and qualification events.

Reference(s). None.

Prerequisite(s). QUAL-680.

640. SPECIAL TRAINING REQUIREMENTS. None.

650. EXPENDABLE ORDNANCE REQUIREMENTS. None.

660. PROFICIENCY INTERVALS. Table 6-8, 6-9, 6-10, and 6-11 contain the proficiency intervals for the combat readiness, combat qualification, and full-combat qualification levels.

Table 6-8. ACEO Proficiency Interval for the Combat Readiness Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	200	2	36	0.5	X	X	X		L
	201	3	36	0.5	X	X	X		L
	202	3	36	0.5	X	X	X		L

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	203	1.5	36	0.5	X	X	X		L
	204	2	36	0.5	X	X	X		L
	205	2	36	0.5	X	X	X		L
	206	2	36	0.5	X	X	X		L
	207	2	36	0.5	X	X	X		L
	208	2	36	0.5	X	X	X		L
AWC	210	1.5	12	0.8	X		X		S/L
	211	1.5	12	0.8	X		X		S/L
	212	2	12	0.8	X		X		L
	213	2	24	0.8	X		X	X	L
SO	220	2	12	0.9	X		X		L/S
	221	4	12	0.9	X		X		S/L
	222	4	12	0.9	X		X		L/S
	223	8	24	0.9	X		X	X	S/L
QUAL	280	8	36	1.7	X		X	X	L
	281	8	36	2	X		X	X	L
DESG	290	0	-	0					
	291	0	-	0					

Table 6-9. ACEO Proficiency Interval for the Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
DLC	300	8	12	1.5	X		X		L/S
	301	8	12	1.5	X		X		L/S
	302	8	12	2	X		X		L/S
	303	4	24	2	X		X	X	L/S
TATC	310	4	12	1.5	X		X		S
	311	4	12	1.5	X		X		L

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	312	4	24	2	X		X	X	L/S
QUAL	380	8	36	5	X		X	X	L
	381	8	36	3	X		X	X	L
DESG	390	0	-	0					
	391	0	-	0					

Table 6-10. ACEO Proficiency Interval for the Full-Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SCC	400	24	12	0.75	X		X		L
	401	8	12	0.75	X		X		L
	402	2.5	12	0.75	X	X	X		L
	403	8	24	0.75	X		X	X	L
QUAL	480	8	36	2	X		X	X	L
DESG	490	0	-	0					

Table 6-11. ACEO Proficiency Interval for the Instructor/Special Skills Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SID	600	8	24	0	X		X		L/S
	601	8	24	0	X			X	L
	602	8	24	0	X		X	X	L/S
	603	8	24	0	X		X	X	L
	604	8	24	0	X		X		L/S
QUAL	680	8	36	0	X		X	X	L
DESG	690	0	-	0					

670. EVENT UPDATE CHAINING. Table 6-12 and 6-13 contain the event update chaining for the ACEO.

Table 6-12. ACEO Combat Ready Training Event Update Chaining

EVENTS		EVENTS UPDATED
200		
201		
202		
203		
304		
205		
206		
207		
208		
210		
211		210
212		210
213		210, 211, 212
220		
221		220
222		220, 221
223		220, 221, 222
280		210, 211, 212, 213
281		220, 221, 222, 223
290		
291		

Table 6-13. ACEO Combat Qualification, Full-Combat Ready, and Special Skills Training Event Update Chaining

EVENTS		EVENTS UPDATED
300		
301		
302		
303		300, 301

EVENTS		EVENTS UPDATED
310		
311		
312		310, 311
380		300, 301, 302, 303
381		310, 311, 312
390		
391		
400		202, 204, 205, 206, 207, 208
401		200, 201, 202
402		
403		202, 204, 205, 206, 207, 208, 400
480		200, 201, 202, 204, 205, 206, 207, 208, 400, 401, 402, 403
490		
600		
601		
602		300, 301, 303, 380, 600, 601
603		300, 301, 303, 380, 600, 601, 602
604		
680		300, 301, 303, 380, 600, 601, 602, 603, 604
690		

CHAPTER 7 CANCELED BY MCO P3500.55

CHAPTER 8 CANCELED BY MCO P3500.55

CHAPTER 9 CANCELED BY MCO P3500.55

AIR SUPPORT CONTROL OFFICER (ASCO)
(MOS 7208)

	PARAGRAPH	PAGE
INTRODUCTION	1000	10-2
CORE COMPETENCIES/SKILLS	1001	10-2
SUMMARY/INDEX OF LIVE/SIMULATOR EVENTS	1002	10-4
UNIT TRAINING POLICIES	1003	10-8
ASCO TRAINING PROGRESSION PHILOSOPHY	1004	10-9
TRAINING PROGRESSION MODEL FOR ASCO	1005	10-9
PROGRAMS OF INSTRUCTION (POI) FOR ASCO	1006	10-11
SPECIAL DESIGNATIONS	1007	10-11
GROUND/ACADEMIC TRAINING	1010	10-12
TRAINING REFERENCES	1011	10-15
LIVE/SIMULATOR EVENT TRAINING: ASCO	1020	10-16
LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS	1030	10-17
COMPONENTS OF A T&R EVENT	1031	10-17
COMBAT CAPABLE TRAINING	1032	10-19
COMBAT READY TRAINING	1033	10-25
COMBAT QUALIFICATION TRAINING	1034	10-32
FULL-COMBAT QUALIFICATION TRAINING	1035	10-36
SPECIAL TRAINING REQUIREMENTS	1040	10-42
EXPENDABLE ORDNANCE REQUIREMENTS	1050	10-43
PROFICIENCY INTERVALS	1060	10-43
EVENT UPDATE CHAINING	1070	10-45

1000. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop UNIT warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective Training and Readiness (T&R) program is the first step in providing the MAGTF Commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, unit training managers can construct and execute an effective training plan which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training to satisfy the training requirements of Commanders at all levels in order to accomplish their wartime mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and formed the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the Systems Approach to Training used in T&R development and Marine Corps UTM principles.

3. The Marine Corps Combat Readiness Evaluation System (MCCRES) and the T&R program are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills which enable units to satisfy the requirements as outlined in their applicable volume of the MCCRES.

1001. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills which support the Mission Essential Tasks (METL) derived from FMFM 5-1 and T/O mission statements, which are realistically expected to be assigned in combat. Core Competencies for the DASC are listed below.

2. **MISSION**. The mission of the DASC is to process immediate air requests, integrate aircraft employment with other supporting arms, manage terminal control assets, and procedurally control aircraft operating in its area of responsibility.

3. **MISSION ESSENTIAL TASK LIST**

a. Coordinates the execution of preplanned direct air support.

b. Receive, process, and coordinate requests for immediate direct air support.

c. Coordinate the execution of direct air support missions with other supporting arms.

d. Plan, install, operate and maintain communications to conduct direct air support operations.

e. Plan, install, operate and maintain an airborne DASC capability to conduct direct air support operations.

f. Conduct liaison to facilitate direct air support operations, as necessary.

g. Maintain continuous DASC functions while displacing.

h. Conduct amphibious/expeditionary operations to include the capability to phase control ashore.

i. Conduct combat operations in an NBC environment.

4. **DASC CORE CAPABILITIES**

a. A core capable DASC is able to field, at a minimum, a DASC with an airborne extension and Air Support Elements capable of supporting the requirements of the MEU(SOC).

b. Each DASC crew consists of, at a minimum:

(1) Senior Air Director.
(1) Crew Chief.
(2) Air Support Controllers.
    (a) Tactical Air Director.
    (b) Helicopter Director.
(6) Air Support Net Operators.
    (a) TAR/HR Net Operator.
    (b) TAC/DAS Net Operator.
    (c) FSC Net Operator.
    (d) Information System Operator.
    (e) Fixed Wing Plotter.
    (f) Rotary Wing Plotter.
(2) Liaisons.
    (a) Officer.
    (b) Enlisted.

c. At a minimum, an airborne DASC crew consists of:

(1) Senior Air Director.
(1) Crew Chief.
(2) Air Support Controllers.
    (a) Tactical Air Director.
    (b) Helicopter Director.
(3) Air Support Net Operators.
    (a) TAR/HR Net Operator.
    (b) TAC/DAS Net Operator.
    (c) FSC Net Operator.

d. At a minimum, a MEU(SOC) Air Support Element consists of:

(2) Air Support Control Officers.
    (a) Tactical Air Director.
    (b) Helicopter Director.
(2) Air Support Net Operators.
    (a) TAR/HR Net Operator.
    (b) TAC/DAS Net Operator.

1002. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. **COMBAT CAPABLE STAGE**. Table 10-1 contains a listing of the combat capable training events and associated page numbers.

Table 10-1. Combat Capable Training List

EVENT	TASK	PAGE
SYS-100	Pass a practical application test on air support communications equipment.	10-20
SYS-101	Pass a practical application test on authentication, encryption, and decryption.	10-20
SYS-102	Pass a practical application test on the JTAR/ASR.	10-20
SYS-103	Pass a practical application test on plotting.	10-21
SYS-104	Pass a practical application test on the switchology of the AN/UYQ-3A.	10-21
SYS-105	Pass a practical application test on the switchology of the AN/TSQ-207 (High Mobility Downsized DASC).	10-22
SYS-106	Pass a practical application test on Contingency Theater Automated Planning System (CTAPS).	10-22
SYS-107	Pass a practical application test on the MAGTF C4I Software Baseline (MSBL).	10-23
SYS-108	Pass a practical application test on Initial Fire Support Automated System (IFSAS)/Advanced Field Artillery Tactical Data System (AFATDS).	10-23
SYS-109	Pass written tests encompassing lectures 1.01 through 5.01.	10-24
QUAL-190	Qualify as a Tactical Air Director (TAD).	10-24
QUAL-191	Qualify as a Helicopter Director (HD).	10-24

2. **COMBAT READY STAGE**. Table 10-2 contains a listing of the combat readiness training events and associated page numbers.

Table 10-2. Combat Readiness Training List

EVENT	TASK	PAGE
SYS-200	Pass a practical application test exhibiting of communications-electronics support equipment.	10-26
SYS-201	Pass a practical application test exhibiting knowledge of motor transport/utilities support equipment.	10-26
SYS-209	Pass a written test of lectures A-01 through A-22 and B-09 (exceptions: A-16 and A-17).	10-26
FAM-210	Tour the Tactical Air Command Center (TACC).	10-27
FAM-211	Tour the Tactical Air Operations Center (TAOC) and/or Early Warning/Control (EW/C).	10-27
FAM-212	Tour an Air Traffic Control facility.	10-27
FAM-213	Tour a LAAD Stinger Team (Manpad/Avenger) and Section Leader/Platoon Commander position.	10-28
FAM-214	Tour a Tactical Air Control Party (TACP).	10-28
FAM-215	Tour a Fire Support Coordination Center (FSCC).	10-28

EVENT	TASK	PAGE
NBC-222	Conduct DASC operations in a Nuclear, Biological, and Chemical (NBC) environment.	10-29
OPS-232	Perform as a Tactical Air Director (TAD).	10-29
OPS-233	Perform as a Helicopter Director (HD).	10-30
OPS-252	Perform as a TAD/HD during an Airborne DASC.	10-30
OPS-262	Perform as a member of an Air Support Liaison Team (ASLT).	10-30
QUAL-292	Qualify as a Tactical Air Director.	10-31
QUAL-293	Qualify as a Helicopter Director.	10-31

3. **COMBAT QUALIFICATION STAGE**. Table 10-3 contains a listing of the combat qualification training events and associated page numbers.

Table 10-3. Combat Qualification Training List

EVENT	TASK	PAGE
SYS-309	Pass a written test of lectures A-16, A-17, and B-01 through B-26 (exceptions: B-09 and B-22).	10-32
NBC-324	Conduct DASC operations in a Nuclear, Biological, and Chemical (NBC) environment.	10-33
OPS-334	Perform as a Senior Air Director (SAD).	10-33
OPS-336	Assist in DASC site selection and communications emplacement.	10-34
OPS-342	Plan and execute a DASC Simulation.	10-34
OPS-354	Perform as an SAD during an Airborne DASC.	10-34
OPS-356	Perform as an OIC of an Airborne DASC.	10-35
OPS-366	Perform as an OIC of an ASLT.	10-35
QUAL-394	Qualify as a Senior Air Director.	10-36

4. **FULL-COMBAT QUALIFICATION STAGE**. Table 10-4 contains a listing of the full combat qualification training events and associated page numbers.

Table 10-4. Full Combat Qualification Training List

EVENT	TASK	PAGE
SYS-409	Pass a written test of lectures B-22 and C-01 through C-07 (exception: C-04).	10-37
NBC-426	Conduct DASC operations in a Nuclear, Biological, and Chemical (NBC) environment.	10-37
OPS-436	Serve as the OIC of a MASS Detachment on a field deployment.	10-37
OPS-438	Serve as the OIC of a MACG Detachment on a field deployment.	10-38
OPS-472	Serve as a member of an Air Support Element (ASE) on a MEU.	10-38
OPS-476	Serve as the OIC of an Air Support Element (ASE) on a MEU.	10-38
OPS-478	Serve as the OIC of a MACG Detachment on a MEU.	10-38
OPS-480	Serve with the Tactical Air Command Center (TACC) on a field deployment.	10-39

EVENT	TASK	PAGE
OPS-481	Serve with a MACS Detachment (TAOC, EW/C, ATC, Air Defense) on a field deployment.	10-39
OPS-482	Serve with a LAAD Battery or below on a field deployment.	10-39
OPS-483	Serve with a Communication's Squadron Detachment on a field deployment.	10-40
OPS-484	Conduct operational planning for Aviation Combat Element (ACE) operations.	10-40
OPS-485	Serve as a liaison in the operations section of a joint/combined command and control organization.	10-40
OPS-486	Conduct operational planning for joint/combined operations.	10-41
OPS-487	Be assigned to a MACG unit other than the MASS.	10-41
QUAL-494	Successfully complete the Weapons and Tactics Instructor (WTI) Course.	10-41

5. **REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS**. Table 10-5 contains a listing of requirements, qualifications and designation training events and associated page numbers.

Table 10-5. Full Combat Qualification Training List

EVENT	TASK	PAGE
RQD-682	Pass Aviation Flight Physical.	10-42
RQD-683	Pass Aviation Flight Physiology.	10-42
RQD-684	Pass appropriate Aviation Swim Qualification.	10-43

6. **OPERATOR CORE SKILLS**. Core skills are depicted in the following matrix (table 10-6) and directly support the METL for each Unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 10-6. Core Skills

METL									
	A	B	C	D	E	F	G	H	I
SYS-200				X					
SYS-201				X			X		
SYS-209	X	X	X	X	X	X		X	
FAM-210	X	X	X						
FAM-211						X			
FAM-212						X			
FAM-213						X			
FAM-214	X	X	X			X			

METL									
	A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**
FAM-215	X	X	X			X			
NBC-222									X
OPS-232	X	X	X	X			X		
OPS-233	X	X	X	X			X		
OPS-252	X	X	X	X			X		
OPS-262	X	X	X			X			
QUAL-292	X	X	X	X			X		
QUAL-293	X	X	X	X			X		
	A	B	C	D	E	F	G	H	I
SYS-309	X	X	X	X	X	X		X	
NBC-324									X
OPS-334	X	X	X	X	X	X	X	X	X
OPS-336				X				X	
OPS-342	X	X	X	X	X	X	X	X	
OPS-354					X				
OPS-356				X					
OPS-366	X	X	X	X		X			
QUAL-394	X	X	X	X	X	X	X	X	
SYS-409	X	X	X	X	X	X	X	X	
NBC-426									X
OPS-436	X	X	X	X	X	X	X	X	X
OPS-438	X	X	X	X	X	X	X	X	X
OPS-472	X	X	X	X		X		X	
OPS-476	X	X	X	X		X		X	
OPS-478	X	X	X	X		X		X	
OPS-480	X					X			
OPS-481						X			
OPS-482						X			
OPS-483				X					
OPS-484	X		X			X		X	
OPS-485	X	X	X			X		X	
OPS-486						X		X	
OPS-487								X	

	METL								
	A	B	C	D	E	F	G	H	I
QUAL-494	X	X	X	X	X	X	X	X	
RQD-682					X				
RQD-683					X				
RQD-684					X				

1003. UNIT TRAINING

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Squadron and battalion commanding officers will ensure that this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation unit in combat lies at the heart of the T&R program. Unit readiness and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform those critical skills required in combat is essential.

3. Commanders shall ensure that all tactical training is conducted to a MCCRES standard. The MCCRES, as outlined in MCO P3501.1, is the unit training standard, and all syllabus events shall be tailored to meet MCCRES requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors which all commanders must address include, but are not limited to:

a. **Efficiency**. Time and resources expended are measurements for training efficiency. Commanders must ensure that all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. **Individual Differences**. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. **Decentralization of Training**. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. Commanders shall provide personnel the opportunities to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit.

6. **Risk Management**. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. **MACCS Integrated System Training**. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated airspace command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEX's should focus on the establishment of necessary communications and datalinks between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Information Link capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

1004. ASCO TRAINING PROGRESSION PHILOSOPHY

1. The initial step of the progression model addresses Core Competency training. This model streamlines the Air Support Control Officer training curricula, based on systematic, focused training which results in shorter time to qualification. Upon designation as a Basic Air Support Control Officer after nine weeks of instruction at MCCES, the focus is to become a qualified TAD/HD within one year, and a qualified SAD after two and a half years in the MOS. Core Competency is achieved by the successful completion of the 100-300 level syllabus.

2. The second step of the progression model addresses Core Plus training. This model focuses training on those special skills required once an Air Support Control Officer has been designated an SAD and is prepared for advanced training. Some syllabus items may be achieved prior to SAD qualification. Core Plus training objectives are contained in the 400 level syllabus.

3. The 600 level syllabus is reserved for tracking those requirements, qualifications, and designations that have refly factors for proficiency yet do not have CRP credit.

1005. TRAINING PROGRESSION MODEL FOR ASCO

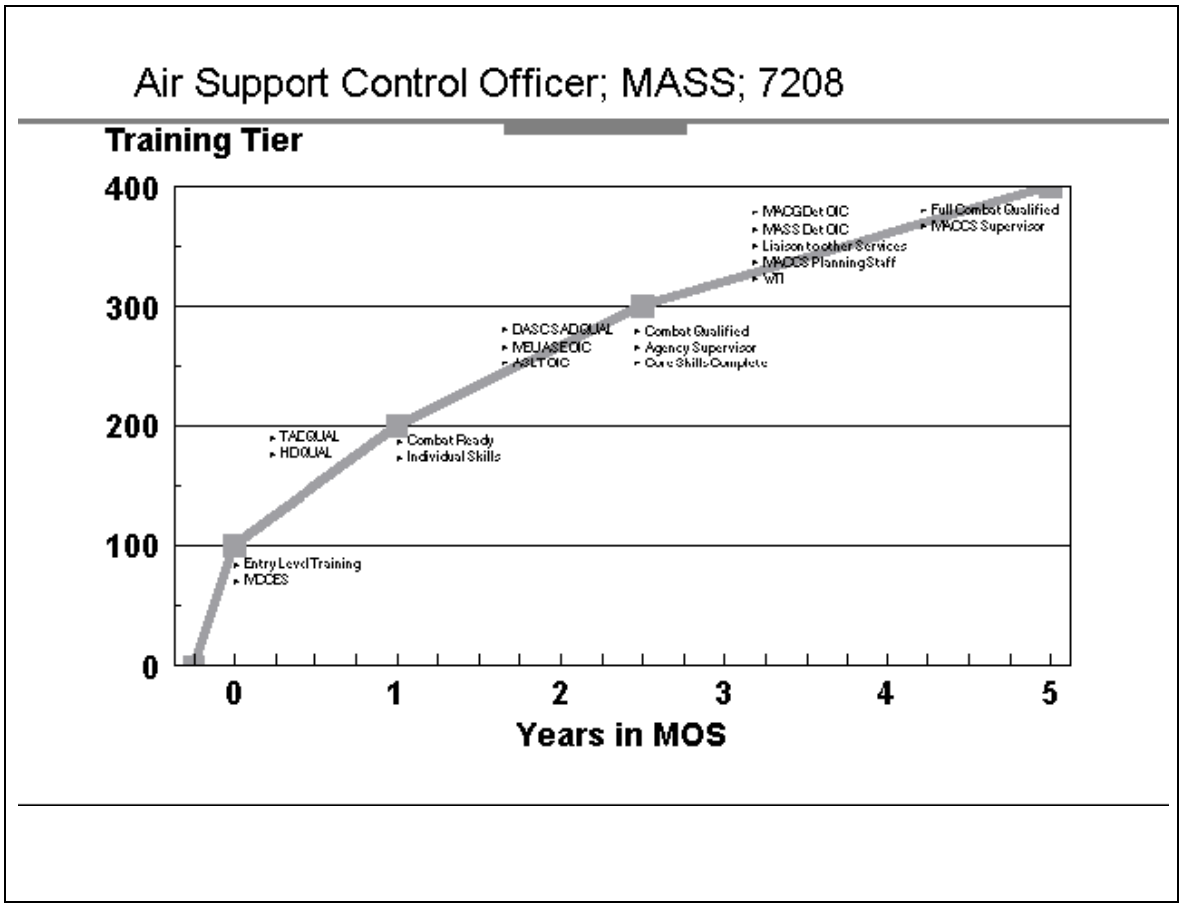
1. The Training Progression Model for the Air Support Control Officer is depicted in figure 10.1.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those qualifications an individual reports to the unit with (accession qualifications) after completion of the MOS-qualifying school. The highest tier of the progression model will contain those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable tier (100 level) will in most cases be accomplished at the completion of initial MOS skills training. With successful completion of the combat capable tier, unit personnel are assigned basic MOS qualification and progress to the Combat Ready tier.

4. On the Combat Ready tier (200 level), qualifications that are normally made available to fairly inexperienced personnel will be delineated. This tier should take the individual who has completed initial MOS skills training and make him or her proficient in core competencies. With successful completion of the combat ready tier, unit personnel move to the Combat Qualification tier.

FIGURE 10.1 - AIR SUPPORT CONTROL OFFICER



TRAINING PROGRESSION MODEL

5. The Combat Qualification (300 level) tier will be that portion of the model that produces core competent combat leaders and crew members. The personnel that are being trained in the combat qualification tier are those Marines a commanding officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Full-Combat Qualification tier (400 level) is reserved for large scale integrated missions and/or events having unique mission taskings. Personnel that complete this tier have achieved core-plus skills and are capable of the most demanding combat tasks. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the commanding officer with oversight of the unit training program.

7. The special training requirements section will track special skills (600 level). These skills are not prerequisite to combat qualification or the ability to function as combat leaders, but are those for which a certain number of trained individuals or crews must be maintained to accomplish special missions or tasks.

8. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification of "combat ready" and "combat qualified" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

1006. PROGRAMS OF INSTRUCTION (POI) FOR ASCO

1. **BASIC AIR SUPPORT CONTROL OFFICER**

WEEKS	COURSE/PHASE	ACTIVITY
9	AIR SUPPORT CONTROL OFFICERS COURSE (ASCOC)/ COMBAT CAPABLE	MCCES

2. **TRANSITION AIR SUPPORT CONTROL OFFICER**

WEEKS	COURSE/PHASE	ACTIVITY
40	TACTICAL AIR DIRECTOR (TAD)/HELICOPTER DIRECTOR (HD)/COMBAT READY	MASS
78	SENIOR AIR DIRECTOR (SAD)/COMBAT QUALIFIED	MASS
130	SPECIAL SKILLS/FULL-COMBAT QUALIFIED	MASS

3. **REFRESHER AIR SUPPORT CONTROL OFFICER**

WEEKS	COURSE/PHASE	ACTIVITY
4	TACTICAL AIR DIRECTOR (TAD)/HELICOPTER DIRECTOR (HD)/COMBAT READY	MASS
1	SENIOR AIR DIRECTOR (SAD)/COMBAT QUALIFIED	MASS
1	SPECIAL SKILLS/FULL-COMBAT QUALIFIED	MASS

4. **CONVERSION AIR SUPPORT CONTROL OFFICER**

WEEKS	COURSE/PHASE	ACTIVITY
4	TACTICAL AIR DIRECTOR (TAD)/HELICOPTER DIRECTOR (HD)/COMBAT READY	MASS
4	SENIOR AIR DIRECTOR (SAD)/COMBAT QUALIFIED	MASS
1	SPECIAL SKILLS/FULL-COMBAT QUALIFIED	MASS

1007. SPECIAL DESIGNATIONS

1. **Tactical Air Director (TAD) Qualification**. An Air Support Control Officer (7208) or Air Support Operations Operator (7242) is TAD qualified after having completed the required events of the Combat Qualification phase in paragraph 1233 below. The crew member shall be certified as an TAD by a Combat Qualified SAD, DASC WTI or the MAWTS-1 DASC instructor and designated TAD

qualified by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

2. **Helicopter Director (HD) Qualification**. An Air Support Control Officer (7208) or Air Support Operations Operator (7242) is HD qualified after having completed the required events of the Combat Qualification phase in paragraph 1233 below. The crew member shall be certified as an HD by a Combat Qualified SAD, DASC WTI or the MAWTS-1 DASC instructor and designated HD qualified by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

3. **Senior Air Director (SAD) Qualification**. An Air Support Control Officer (7208) is SAD qualified after having completed the required events of the Combat Qualification phase in paragraph 1234 below. The Air Support Control Officer shall be certified as an SAD by a DASC WTI or the MAWTS-1 DASC instructor and designated SAD qualified by the unit commanding officer. The officer shall have a letter in their MACCS Performance Record stating their qualification.

WEEKS	COURSE/PHASE	ACTIVITY
40	TAD/HD/Combat Ready	MASS
130	SAD/Combat Qualified	MASS

1010. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 10-7 into their training plans. Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 10-7. Recommended T&R Lectures

LECTURE CODE	LECTURE TITLE	SPONSOR
	ASCOC PROGRAM OF INSTRUCTION	
1.01	Marine Air Ground Task Force (MAGTF)	MCCES
1.02	Marine Division	MCCES
1.03	Marine Aviation	MCCES
1.04	Unmanned Aerial Vehicles (UAV)	MCCES
1.05	Aircraft Capabilities	MCCES
1.06	Aviation Ordnance	MCCES
1.07	Supporting Arms	MCCES
1.08	Marine Air Command and Control System (MACCS)	MCCES
1.09	Tactical Air Command Center (TACC)	MCCES
1.1	Direct Air Support Center (DASC)	MCCES
1.11	Fire Support Coordination Center (FSCC)	MCCES
1.12	Terminal Controllers/DASC Extension	MCCES
1.13	Fundamentals of Antiair Warfare	MCCES
1.14	Low Altitude Air Defense (LAAD) Battalion	MCCES
1.15	Amphibious Operations	MCCES
1.16	Command and Control of Amphibious Operations	MCCES

LECTURE CODE	LECTURE TITLE	SPONSOR
1.17	Marine Air Support Squadron (MASS)	MCCES
2.01	Introduction to Communications	MCCES
2.02	Radio/Telephone Procedures	MCCES
2.03	Communication Nets	MCCES
2.04	Introduction to Electronic Warfare (EW)	MCCES
2.05	Pacific Numeral Cypher/Authentication System	MCCES
2.06	IFSAS Setup	MCCES
2.07	IFSAS Initialization	MCCES
2.08	Introduction to CTAPS	MCCES
2.09	MAGTF C4I Software Baseline (MSBL)	MCCES
2.1	Security of Classified Information	MCCES
3.01	Joint Tactical Airstrike Request (JTAR)	MCCES
3.02	Assault Support Request (ASR)	MCCES
3.03	Map Reading	MCCES
3.04	Plotting Symbology	MCCES
3.05	Marine Expeditionary Unit (MEU)	MCCES
3.06	CSAR/TRAP	MCCES
3.07	Procedural Control of Aircraft	MCCES
3.08	Surface-to-Air Threat to the MAGTF	MCCES
3.09	Threat Aircraft	MCCES
3.1	Operations Documents	MCCES
3.11	US Message Text Format (USMTF)	MCCES
3.12	Internal/External Information Flow	MCCES
3.13	Navigational Aids	MCCES
3.14	Logbooks	MCCES
3.15	Communications Supporting Documents	MCCES
3.16	Theater Air Ground System (TAGS)	MCCES
3.17	Training and Readiness (T&R)	MCCES
3.18	Air Tasking Order Confirmation (ATOCONF)	MCCES
4.01	Operation of the AN/TSQ-207 (HMD DASC)	MCCES
4.02	Air Support Communication Equipment	MCCES
4.03	Tactical Employment of the DASC	MCCES
4.04	Vehicles/Support Equipment	MCCES
4.05	Operation of the AN/UYQ-3A	MCCES
5.01	DASC Simulation	MCCES
	Proposed 200 Level: Combat Ready Training	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES

LECTURE CODE	LECTURE TITLE	SPONSOR
A-03	The Six Functions of Marine Aviation	MAWTS-1
A-04	Control of Aircraft & Missiles	MAWTS-1
A-05	Offensive Air Support	MAWTS-1
A-06	Assault Support	MAWTS-1
A-07	Electronic Warfare	MAWTS-1
A-08	Aerial Reconnaissance	MAWTS-1
	Anti-Air Warfare	MAWTS-1
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	MCCES
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	MAWTS-1
A-14	MACCS Communications	MAWTS-1
A-15	CTAPS Overview	MAWTS-1
A-18	Encryption & Authentication Procedures	MCCES
A-19	COMSEC & Crypto handling	MCCES
A-20	MAGTF C4I Software Baseline (MSBL) Overview	MCCES
A-21	DASC Crew Brief Responsibilities	MAWTS-1
A-22	DASC Displacement Operations	MAWTS-1
C-04	MACG in support of MEU(SOC)	MAWTS-1
	Proposed 300 Level: Combat Qualified Training	
A-16	Data Link Symbology	MCCES
A-17	Manual Crosstell procedures	MCCES
B-01	Other Air Threats	MAWTS-1
B-02	Fixed Wing Threat	MAWTS-1
B-03	Rotary Wing Threat	MAWTS-1
B-04	REC Threat	MAWTS-1
B-05	Ground Threat	MAWTS-1
B-06	AOR Specific Threat & OP PLANS	Local MACG
B-07	MACCS Agencies	MAWTS-1
B-08	TACC	MAWTS-1
B-09	TAOC	MAWTS-1
B-10	DASC	MAWTS-1
B-11	ATC Detachment	MAWTS-1
B-12	LAAD Bn	MAWTS-1
B-13	Air Defense Detachment	MAWTS-1
	MWCS	MAWTS-1
B-14	AEW	MAWTS-1
B-15	MACCS/Joint Data link	MAWTS-1
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1
B-18	Airspace Planning/Management (Combat Airspace)	MAWTS-1
B-19	Tanker Management	MAWTS-1
B-20	Armed Reconnaissance	MAWTS-1

LECTURE CODE	LECTURE TITLE	SPONSOR
B-21	UAV Programs & Integration	MAWTS-1
B-23	CSAR/TRAP	MAWTS-1
B-24	NEO Execution	MAWTS-1
B-25	Execution Checklist	MAWTS-1
B-26	MAGTF Automated Systems Integration	MAWTS-1
	Proposed 400 Level: Full Combat Qualified Training	
B-22	Link Architecture and Procedures	MAWTS-1
C-01	Theater Air Ground System (TAGS)	MAWTS-1
C-02	Joint Air Operations	MAWTS-1
C-03	Theater Missile Defense	MAWTS-1
C-05	ROE Development	MAWTS-1
C-06	SIS Aircraft	MAWTS-1
C-07	JTAO Procedures	USFORSCOM

(*) The lecture code is standardized throughout all MACCS related syllabi, and are used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may be listed non-sequentially.

2. External academic courses of instruction required to complete the syllabus are listed below.

COURSE	ACTIVITY
Weapons and Tactics Instructors (WTI) Course	MAWTS-1
Joint Aerospace Computer Applications Course	FORCECOM
Joint Aerospace Command and Control Course (JACAC)	FORCECOM
Joint Doctrine Air Campaign Course (JDACC)	AFCSC

1011. TRAINING REFERENCES

1. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

TITLE	
MCWP 3-2	Aviation Operations
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook
MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.11	LAAD Gunner's Handbook
MCWP 3-25.12	MWCS Handbook

FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 6-18	Techniques and Procedures for Fire Support Coordination
OPNAVINST 3710	NATOPS MANUAL
TM-11240 Series	Motor Transport Technical Characteristics
TM-11275 Series	Principle Technical Characteristics of Engineer Equipment
TM-2000 Series	USMC Communications-Electronics Equipment
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
JtDivO P3120.23	FSC SOP
ACP-125	Allied Communication Publication
DASC PCL	DASC Pocket Checklist

1020. LIVE/SIMULATOR EVENT TRAINING: ASCO

1. COMBAT CAPABLE STAGE OF TRAINING

STAGE	EVENTS	HOURS	PERCENT
ASCOC MCCES			60.00%

2. COMBAT READY STAGE OF TRAINING

STAGE	EVENTS	HOURS	PERCENT
SYSTEM TRAINING	3	3	2.25%
TACTICAL AIR DIRECTOR/HELICOPETER DIRECTOR TRAINING	13	96	12.75%
COMBAT READY TOTALS:	16	99	15.00%

3. COMBAT QUALIFICATION STAGE OF TRAINING

STAGE	EVENTS	HOURS	PERCENT
SENIOR AIR DIRECTOR TRAINING	9	131	20.00%
COMBAT QUALIFICATION TOTALS:	9	131	20.00%

4. FULL COMBAT QUALIFICATION STAGE OF TRAINING

STAGE	EVENTS	HOURS	PERCENT
FULL COMBAT QUALIFICATION	16		5.00%
FULL COMBAT QUALIFICATION TOTALS:	16		5.00%

5. REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS

STAGE	EVENTS	HOURS	PERCENT
FLIGHT PHYSICAL/PHYSIOLOGY	3	17	0.00%
FLIGHT PHYSIOLOGY TRAINING TOTALS:	3	17	0.00%

1030. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. **General**. The majority of the Air Support Control Officer syllabus is ground training which requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified Air Support Control Officer.

a. **Live Training**. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code.

b. **Simulator Training**. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted during DASC Simulations. Training not conducted during DASC Simulations shall be replaced with live training where applicable as indicated in the condition code.

3. **Minimum Performance Time for Syllabus "Write-Off"/Designations**. Personnel may receive credit for successful completion of any syllabus requirement (except qualifications) upon either a written, oral, or practical demonstration of proficiency, at the commanding officer's discretion. Completion of 70 percent of any syllabus requirement (except qualifications) may be "written-off" as complete at the discretion of the designated evaluator. Qualifications require a completed performance evaluation, and the designation signed by the commanding officer.

4. **Evaluation of Training**. Evaluation of those portions of the syllabus which are academic in nature will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per T&R Manual, Volume 1, and the standardized evaluation forms located in the appendix to this syllabus.

1031. COMPONENTS OF A T&R EVENT

1. **General**. An event contained within a T&R Manual is an Individual or collective training standard and contains seven or eight components, dependent on the tier in which they are contained:

1/	2/	3/	4/	5/	6/
SAM-XXX	**0.5**	**T,C,R,**	**E**	**EQUIP**	**L/S (NS)**

TASK: The title of a unit of work which needs to be done in the performance of a Marine's duties. It is a clearly stated performance-oriented action requiring learned skills and knowledge, i.e. Engage a rotary winged aircraft.

CONDITION(S): The condition(s) set for the real-world or combat circumstances in which the tasks are to be performed. They indicate what is provided (equipment, tools, materials,

manuals, aids, etc.), environmental constraints or conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this should be stated.

STANDARD(S): The performance standard indicates the basis for judging the effectiveness of the performance. It consists of a carefully worded statement which identifies the proficiency level expected when the task is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

PERFORMANCE STEP(S): *Listed for 100 level T&R events only.* Performance steps are the actions or decisions required to fulfill proficiency established by the standard. The major performance steps which are required to perform the task to proficiency are listed in the order of performance. Minor steps are not listed.

PREREQUISITE(S): Provides a listing of academic training or other T&R events which must be completed prior to satisfying the task.

REFERENCE(S): Listing of doctrinal or reference publications which may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

ORDNANCE: A listing of Ordnance types and quantities required to satisfy the Task.

EXTERNAL SUPPORT REQUIREMENT(S): A listing or description of the external support requirements which may be required to satisfy completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES: 1/ Events are coded per Appendix B of T&R Manual Vol 1.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable Program of Instruction (Basic POI is understood).

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed.

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision Device; Where contained within **( )** denotes optional Conditions.

2. **Event Numbering**. Each event in Chapter 10 of the T&R Manual shall use the following numbering sequence:

a. The first digit will correspond to the appropriate level of training (i.e., 100/200/300/400/600).

b. The second digit will correspond to the classification of training:

(1) X00-X09 SYS (Systems)
(2) X10-X19 FAM (Familiarization)
(3) X20-X29 NBC (Nuclear, Biological, and Chemical)
(4) X30-X39 OPS (General Operations)
(5) X40-X49 OPS (Simulation)
(6) X50-X59 OPS (Airborne)
(7) X60-X69 OPS (Air Support Liaison Team)
(8) X70-X79 OPS (MEU)
(9) X80-X89 OPS (Advanced Operations)
(10) X90-X99 QUAL (Qualification)

c. The third digit will correspond to the position/billet for X20-X79 and X90-X99 for 200-400 level syllabus items only, as follows:

(1) XX0 Net Operator (ASNO)
(2) XX1 Crew Chief (CC)
(3) XX2 Tactical Air Director (TAD)
(4) XX3 Helicopter Director (HD)
(5) XX5 NCOIC of a MASS Detachment/ASE/ASLT
(6) XX6 OIC of a MASS Detachment/ASE/ASLT
(7) XX7 NCOIC of a MACG Detachment
(8) XX8 OIC of a MACG Detachment

1032. COMBAT CAPABLE TRAINING

1. COMBAT CAPABLE

a. **Purpose**. To develop the basic skills necessary for a 7208 to be qualified as a basic Air Support Control Officer. This training will be accomplished by the program of instruction being utilized by Marine Corps Communication-Electronics School (MCCES), 29 Palms, CA. Upon graduation from this course, the controller is sixty percent (60%) trained and Combat Capable.

b. **General**

(1) **Administrative Notes**. Upon completion of this phase of training, an officer will be designated a 7208.

(2) **Prerequisites**. Second Lieutenant through Captain, Secret Clearance, normal color perception.

c. **Crew Requirements**. Student DASC crew.

d. **Academic Training**. The lectures developed to reinforce this stage of training are lectures 1.01 through 4.05, as delineated in paragraph 1010 of this manual.

e. **Live and Simulator Event Training (12 Events, 19 Hours)**

SYS-100 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on air support communications equipment.

CONDITION(S): In the classroom and without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PERFORMANCE STEP(S): Identify the following:

(1) Nomenclature.
(2) Frequency spectrum.
(3) Range.
(4) Power requirements.
(5) Associated cryptological equipment.
(6) Antenna configurations.

PREREQUISITE(S): Lecture 4.02.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-101 **1.0** __ **E** **None** **L**

TASK: Pass a practical application test on authentication, encryption, and decryption.

CONDITION(S): In the classroom and without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PERFORMANCE STEP(S):

(1) Correctly encrypt information.
(2) Correctly decrypt information.
(3) Correctly authenticate.

PREREQUISITE(S): Lecture 2.05.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-102 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on the JTAR/ASR.

CONDITION(S): In the classroom and without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PERFORMANCE STEP(S):

(1) Receive and process JTARs. Assign appropriate request number and complete the form.

(2) Receive and process ASRs. Assign appropriate request number and complete the form.

PREREQUISITE(S): Lectures 3.01 and 3.02.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-103 **1.0** **T,C** **E** **None** **L**

TASK: Pass a practical application test on plotting.

CONDITION(S): In the classroom with a map.

STANDARD(S): Pass the test with a score of 80% or greater, without the aid of references.

PERFORMANCE STEP(S):

(1) Find a four digit UTM coordinate.
(2) Find a six digit UTM coordinate.
(3) Find an eight digit UTM coordinate.
(4) Locate a Latitude/Longitude coordinate.
(5) Plot friendly/enemy units using appropriate symbols.
(6) Plot DASC specific symbols (JTAR, ASR, etc.).
(7) Complete and understand mission data on status boards (TAD/HD).

PREREQUISITE(S): Lectures 3.03 and 3.04.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-104 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on the switchology of the AN/UYQ-3A.

CONDITION(S): In a AN/UYQ-3A and without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PERFORMANCE STEP(S):

(1) Monitor a radio net.
(2) Transmit on a radio net.
(3) Answer a telephone call.

(4) Place a telephone call.
(5) Utilize intercommunications system.
(6) Enable/disable cryptological equipment.
(7) Alter assigned frequencies utilizing presets/remote/radio face.

PREREQUISITE(S): Lecture 4.05.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-105 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on the switchology of the AN/TSQ-207 (High Mobility Downsized (HMD) DASC).

CONDITION(S): In a AN/TSQ-207 and without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PERFORMANCE STEP(S):

(1) Monitor a radio net.
(2) Transmit on a radio net.
(3) Answer a telephone call.
(4) Place a telephone call.
(5) Utilize intercommunications system.
(6) Enable/disable cryptological equipment.

PREREQUISITE(S): Lecture 4.01.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-106 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on CTAPS.

CONDITION(S): Utilizing a CTAPS terminal.

STANDARD(S): Pass the test with a score of 80% or greater.

PERFORMANCE STEP(S):

(1) Be able to apply power and log in.
(2) Manipulate right mouse button functions to include lock screen, floppy disk utility and talk utility.
(3) Send/receive e-mail using all applications.
(4) Import/export data.
(5) Access, manipulate, and print an Air Tasking Order (ATO).

PREREQUISITE(S): Lecture 2.08.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-107 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on the MAGTF C4I Software Baseline (MSBL).

CONDITION(S): Utilizing a MSBL terminal.

STANDARD(S): Pass the test with a score of 80% or greater.

PERFORMANCE STEP(S):

(1) Apply power and login.
(2) Use software applications: map functions, track functions, overlays.
(3) Send and receive operator notes.
(4) Receive, parse, and print an Air Tasking Order (ATO).
(5) Execute manual update of the ATO.

PREREQUISITE(S): Lecture 2.09.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-108 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on Initial Fire Support Automated System (IFSAS)/Advanced Field Artillery Tactical Data System (AFATDS).

CONDITION(S): Utilizing an IFSAS/AFATDS terminal.

STANDARD(S): Pass the test with a score of 80% or greater.

PERFORMANCE STEP(S):

(1) Apply power and log in.
(2) Perform setup initialization: Install map mod, map center, printer, alarms and set time.
(3) Setup communications: Owner ID, subscriber data and communication check.
(4) Send/receive plain text messages.
(5) Send/receive Battlefield Geometry.
(6) Process data techniques.
(7) Artillery firing update (AFU).

PREREQUISITE(S): Lectures 2.06 and 2.07.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-109 **7.0** __ **E** **None** **L**

TASK: Pass written tests encompassing lectures 1.01 through 5.01.

CONDITION(S): Garrison without the aid of references.

STANDARD(S): Pass the tests with a score of 80% or greater.

PREREQUISITE(S): Lectures 1.01 through 5.01.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

QUAL-190 **1.0** ___ **E** **None** **L**

TASK: Qualify as a Tactical Air Director (TAD).

CONDITION(S): Simulated DASC.

STANDARD(S): Pass the test with a score of 80% or greater.

PERFORMANCE STEP(S):

(1) Parse a USMTF-formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.

PREREQUISITE(S): Lecture 3.07.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

QUAL-191 **1.0** ___ **E** **None** **L**

TASK: **Qualify as a Helicopter Director (HD).**

CONDITION(S): Simulated DASC.

STANDARD(S): Pass the test with a score of 80% or greater.

PERFORMANCE STEP(S):

(1) Parse a USMTF-formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.

PREREQUISITE(S): Lecture 3.07.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

1033. COMBAT READY TRAINING

1. Combat Ready Training

a. **Purpose**. To develop proficiency in air support operations. Upon completion of this portion of the training syllabus, the controller is seventy-five percent (75%) trained and Combat Ready.

b. **General**

(1) **Administrative Notes**. Upon completion of this phase of training, an Air Support Control officer will be TAD and HD qualified in the DASC.

(2) **Prerequisite**

(a) The following MCI courses shall be completed prior to completing this phase of training:

NUMBER	MCI COURSE
25.15	Antenna Construction and Propagation of Radio Waves
25.20	Communications for the FMF Marine
25.30	VHF Field Radio Equipment
25.32	HF/UHF Field Radio Equipment

(b) Additional prerequisites are listed in each syllabus event.

(3) **Refresher Training**. Refresher training is required once a qualified controller has been absent from a 72XX billet for 16 months or longer. Combat Ready individuals will complete "R" coded events in the 200 level syllabus.

c. **Crew Requirements**. Core competent DASC crew.

d. **Academic Training**. The lectures developed to reinforce this stage of training are lectures A-01 through A-22 (exceptions: A-16 and A-17), B-09, and C-04, as delineated in paragraph 1210 of this manual.

e. **Live and Simulator Event Training (16 Events, 98 Hours)**

SYS-200 **1.0** **T,C,R** **E** **MWCS** **L/S**

TASK: Pass a practical application test exhibiting knowledge of communications-electronics support equipment.

CONDITION(S): Garrison or field without the use of references.

STANDARD(S): The Marine will pass a practical application test with a score of 80% or greater. The test will include nomenclature, frequency spectrum, range, power requirements, antenna configurations, associated cryptological equipment, owning unit, and its use by the DASC.

PREREQUISITIE(S): None.

REFERENCE(S): TM 2000 series and the DASC Pocket Checklist.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S):

(1) MWCS assets appropriate to the mission of the MASS.
(2) Test provided by MCCES.

SYS-201 **1.0** **T,C,R** **E** **MASS** **L/S**

TASK: Pass a practical application test exhibiting knowledge of motor transport/utilities support equipment.

CONDITION(S): Garrison or field provided the appropriate motor transport/utilities equipment.

STANDARD(S): The Marine will pass a practical application test with a score of 80% or greater. The test will include nomenclature, power capabilities, hazardous material handling, environmental control unit configurations, and their relationship to specific DASC configurations.

PREREQUISITE(S): None.

REFERENCE(S): TM-11240 series, TM-11275 series, and the DASC Pocket Checklist.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Test provided by MCCES.

SYS-209 **1.0** **T,R** **E** **None** **L**

TASK: Pass a written test of A-01 through A-22 (exceptions: A-16 and A-17), B-09, and C-04.

CONDITION(S): Garrison without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PREREQUISITE(S): Lectures A-01 through A-22 (exceptions: A-16 and A-17).

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Written test provided by MCCES.

FAM-210 1.0 T __ TACC L/S

TASK: Tour the Tactical Air Command Center (TACC) .

CONDITION(S): Garrison or field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of this agency and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.4.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): TACC.

FAM-211 1.0 T __ TAOC/ EW/C L/S

TASK: Tour the Tactical Air Operations Center (TAOC) and/or Early Warning/Control (EW/C).

CONDITION(S): Garrison or field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of this agency and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.7.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): TAOC/EW/C.

FAM-212 1.0 T __ ATC L/S

TASK: Tour an Air Traffic Control facility.

CONDITION(S): Garrison or field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of this agency and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.8.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): ATC Det/MMT.

FAM-213 **1.0** **T** __ **LAAD BN** **L/S**

TASK: Tour a LAAD Stinger Team (Manpad/Avenger) and Section Leader/Platoon Commander position.

CONDITION(S): Garrison or field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of LAAD and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25, MCWP 3-25.10, and MCWP 3-25.11.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Stinger Team.

FAM-214 **1.0** **T** __ **TACP** **L/S**

TASK: Observe a Tactical Air Control Party (TACP).

CONDITION(S): Interface with a TACP in the field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of a TACP and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): FMFM 5-1.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): TACP.

FAM-215 **1.0** **T** __ **FSCC** **L/S**

TASK: Tour an operational Fire Support Coordination Center (FSCC).

CONDITION(S): Field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of a FSCC and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): FMFM 6-18 and Joint Division Order P3120.23.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): FSCC.

NBC-222 **4.0** **T,C** **__** **DASC** **S/L**

TASK: Conduct DASC operations in a Nuclear, Biological, and Chemical (NBC) environment.

CONDITION(S): Garrison or field in MOPP-IV. Minimum rate of two sorties per hour for at least four hours.

STANDARD(S): Implement skills as a TAD or HD, including:

(1) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(2) Use proper RT/brevity codes.
(3) Maintain logbook and RIO log.
(4) Control/route/divert aircraft.
(5) Match available airborne assets with requests.
(6) Pass crew information.

PREREQUISITE(S): None.

REFERENCE(S): FMFM 11-1 and MCCRES.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-232 **25.0** **T** **__** **DASC** **L/S**

TASK: Perform as a Tactical Air Director (TAD).

CONDITION(S): Garrison or field, at a minimum rate of two sorties per hour.

STANDARD(S): Implement skills as a TAD, including:

(1) Parse a USMTF-formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF.

OPS-233 **25.0** **T** __ **DASC** **L/S**

TASK: Perform as a Helicopter Director (HD).

CONDITION(S): Garrison or field, at a minimum rate of two sorties per hour.

STANDARD(S): Implement skills as a HD, including:

(1) Parse a USMTF-formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF.

OPS-252 **4.0** **T,C** __ **DASC** **L**

TASK: **Perform as a TAD/HD during an Airborne DASC.**

CONDITION(S): Field.

STANDARD(S): Understand capabilities and limitations of equipment and employment options of a DASC(A) (to include aircraft specifics).

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): KC-130.

OPS-262 **16.0** **T** __ **DASC** **L**

TASK: Perform as a member of an Air Support Liaison Team (ASLT).

CONDITION(S): Field.

STANDARD(S): Implement the following skills:

(1) Parse a USMTF-formatted Air Tasking Order (ATO).
(2) Conduct brief/debrief.
(3) Use proper RT/brevity codes.

(4) Maintain logbook and RIO log.
(5) Pass air support information.
(6) Advise supported unit on DASC capabilities/limitations.

PREREQUISITE(S): OPS-232 or OPS-233.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): FSCC.

QUAL-292 8.0 T,R E DASC L/S

TASK: Qualify as a Tactical Air Director (TAD).

CONDITION(S): Garrison or field.

STANDARD(S): Execute tasks required to qualify as a TAD to include:

(1) Parse a USMTF-formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.

PREREQUISITE(S): SYS-200, SYS-201, SYS-209, FAM-210 through FAM-215, NBC-222, OPS-232, OPS-252, and OPS-262.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF.

QUAL-293 8.0 T,R E DASC L/S

TASK: Qualify as a Helicopter Director (HD).

CONDITION(S): Garrison or field.

STANDARD(S): Execute tasks required to qualify as an HD to include:

(1) Parse a USMTF-formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.

(8) Pass crew information.

PREREQUISITE(S): SYS-200, SYS-201, SYS-209, FAM-210 through FAM-215, NBC-222, OPS-233, OPS-252, and OPS-262.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF.

1034. COMBAT QUALIFICATION TRAINING

1. Combat Qualification Training

a. **Purpose**. To develop advanced proficiency in air support operations. Upon completion of this portion of the training syllabus, an Air Support Control Officer is ninety-five percent (95%) trained and Combat Qualified.

b. **General**

(1) **Administrative Notes**. Upon completion of this phase of training, an Air Support Control Officer will be SAD qualified in the DASC.

(2) **Prerequisite**

(a) The following MCI courses shall be completed prior to completing this phase of training:

NUMBER	MCI COURSE
25.25	Communications Security
25.40	Communication Plans and Orders

(b) Additional prerequisites are listed in each syllabus event.

(3) **Refresher Training**. Refresher training is required once a qualified Senior Air Director has been absent from a 72XX billet for 16 months or longer. Combat Qualified individuals will complete "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. Core Competent DASC crew.

d. **Academic Training**. The lectures developed to reinforce this stage of training are lectures A-16, A-17, and B-01 through B-26 (exceptions: B-09 and B-22), as delineated in paragraph 1210 of this manual.

e. **Live and Simulator Event Training (9 Events, 131 Hours)**

SYS-309 1.0 T,R E None L

TASK: Pass a written test of lectures A-16, A-17, and B-01 through B-26 (exceptions: B-09 and B-22).

CONDITION(S): Garrison without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PREREQUISITE(S): SYS-209.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Written test provided by MAWTS-1.

NBC-324 **4.0** **T,C** **__** **DASC** **S/L**

TASK: Conduct DASC operations in a Nuclear, Biological, and Chemical (NBC) environment.

CONDITION(S): Garrison or field in MOPP-IV.

STANDARD(S): As an SAD, perform the following additional skills:

(1) Identify alternate command and control communications procedures.
(2) Plan personnel rotations while in MOPP-IV.
(3) Utilize NBC defense equipment as required.
(4) Alert subordinate displaced elements.
(5) Notify external agencies and aircraft.

PREREQUISITE(S): NBC-222.

REFERENCE(S): FMFM 11-1 and MCCRES.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-334 **50.0** **T** **__** **DASC** **L/S**

TASK: Perform as a Senior Air Director (SAD).

CONDITION(S): Garrison or field, at a minimum rate of two sorties per hour.

STANDARD(S): Implement skills as an SAD, including:

(1) Conduct crew brief/debrief.
(2) Use proper RT/brevity codes.
(3) Maintain logbook.
(4) Conduct crew management and supervision.
(5) Match available airborne assets with requests.
(6) Pass crew information.
(7) Manage MAGTF automation systems.
(8) Manage assigned radio nets.
(9) Interface with external agencies.
(10) Coordinate supporting arms integration.
(11) Phase control ashore.
(12) Conduct echelon operations.
(13) Assist OIC in planning, deployment, and retrograde of the DASC.

PREREQUISITE(S): OPS-232 or OPS-233.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF and/or NTACS.

OPS-336 **4.0** **T,C** __ **DASC** **L**

TASK: Assist in DASC site selection and communications emplacement.

CONDITION(S): Field.

STANDARD(S): Implement skills in selection of a DASC site and emplacement of communications equipment, including:

(1) Communications connectivity.
(2) FSCC coordination.
(3) Site security.
(4) Camouflage and dispersion.
(5) Advance Party/RSOP.
(6) Support equipment.
(7) Trafficability.
(8) Establish priorities for equipment emplacement.
(9) Echelon considerations.
(10) Identify alternate sites.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-342 **40.0** **T** __ **DASC** **S**

TASK: Plan and execute a DASC Simulation.

CONDITION(S): Garrison or field.

STANDARD(S): Implement skills to plan, coordinate, and execute a DASC Simulation to meet local unit's training goals.

PREREQUISITE(S): OPS-232 or OPS-233.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-354 **4.0** **T,C** __ **DASC** **L**

TASK: Perform as an SAD during an Airborne DASC.

CONDITION(S): Field.

STANDARD(S): Understand capabilities and limitations of equipment and employment options of a DASC(A) (to include aircraft specifics).

PREREQUISITE(S): OPS-252.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): KC-130.

OPS-356 4.0 T,C __ DASC L

TASK: Perform as an OIC during an Airborne DASC.

CONDITION(S): Field.

STANDARD(S): Conduct planning and execution for Airborne DASC, including:

(1) Logistical requirements.
(2) Communications considerations.
(3) External agency coordination.
(4) Physiological requirements.

PREREQUISITE(S): OPS-252 and OPS-254.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): KC-130.

OPS-366 16.0 T __ DASC L

TASK: Perform as an OIC of an ASLT.

CONDITION(S): Field.

STANDARD(S): Implement the following skills:

(1) Conduct brief/debrief.
(2) Advise supported unit on DASC capabilities/limitations.
(3) Plan and coordinate ASLT equipment and personnel support requirements.
(4) Conduct liaison with external agencies.

PREREQUISITE(S): OPS-266.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): FSCC.

QUAL-394 8.0 T,R E DASC L/S

TASK: Qualify as a Senior Air Director.

CONDITION(S): Garrison or field.

STANDARD(S): Implement skills as an SAD to include:

(1) Conduct crew brief/debrief.
(2) Use proper RT/brevity codes.
(3) Maintain logbook.
(4) Conduct crew management and supervision.
(5) Match available airborne assets with requests.
(6) Pass crew information.
(7) Manage MAGTF automation systems.
(8) Manage assigned radio nets.
(9) Interface with external agencies.
(10) Coordinate supporting arms integration.
(11) Phase control ashore.
(12) Conduct echelon operations.
(13) Assist OIC in planning, deployment, and retrograde of the DASC.

PREREQUISITE(S): QUAL-292, QUAL-293, SYS-309, NBC-324, OPS-334, OPS-336, OPS-342, OPS-354, OPS-356, and OPS-366.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF.

1035. FULL-COMBAT QUALIFICATION TRAINING

1. Full-Combat Qualification Training

a. **Purpose**. To develop comprehensive Core Plus training in MACCS and MAGTF interagency operations. Upon completion of this portion of the training syllabus, the Air Support Control Officer is one hundred percent (100%) trained.

b. **General**

(1) **Administrative Notes**. Upon completion of this phase of training, an Air Support Control Officer will have the skills to plan and execute advanced DASC operations in a joint and/or combined environment.

(2) **Prerequisite(s).** Prerequisites are listed in each syllabus event.

(3) **Refresher Training**. Refresher training is required once a qualified Senior Air Director has been absent from a 72XX billet for 16 months or longer. Combat Qualified individuals will complete "R" coded events in the 400 level syllabus.

c. **Crew Requirements**. None.

d. **Academic Training**. The lectures developed to reinforce this stage of training are lectures B-22 and C-01 through C-07 (exception: C-04), as delineated in paragraph 1210 of this manual.

e. **Live and Simulator Event Training (16 Events, 18 Months, 825 Hours)**

SYS-409 **1.0** **T,R** **E** **None** **L**

TASK: Pass a written test of lectures B-22 and C-01 through C-07 (exception: C-04).

CONDITION(S): Garrison without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PREREQUISITE(S): SYS-309.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Written test provided by MAWTS-1.

NBC-426 **4.0** **T,C** **__** **DASC** **S/L**

TASK: Conduct DASC operations in a Nuclear, Biological, and Chemical (NBC) environment.

CONDITION(S): Garrison or field in MOPP-IV.

STANDARD(S): As an OIC, implement NBC SOP.

PREREQUISITE(S): NBC-324.

REFERENCE(S): FMFM 11-1 and MCCRES.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-436 **120.0** **T,C** **__** **DASC** **L**

TASK: Perform as the OIC of a MASS Detachment on a field deployment.

CONDITION(S): Field.

STANDARD(S): Plan for and deploy as the OIC of a MASS Detachment.

PREREQUISITE(S): None (QUAL-394 recommended).

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-438 **120.0** **T** __ **MACG** **L**

TASK: Perform as the OIC of a MACG Detachment on a field deployment.

CONDITION(S): Field.

STANDARD(S): Plan for and deploy as the OIC of a MACG Detachment.

PREREQUISITE(S): None (QUAL-394, OPS-436 recommended).

REFERENCE(S): MCWP 3-25.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MACCS.

OPS-472 **4 Months** **T** __ **ASE** **L**

TASK: Perform as a member of an Air Support Element (ASE) on a MEU.

CONDITION: Field.

STANDARD(S): Perform as a member of a ASE on a MEU.

PREREQUISITE(S): MCI 04.7 Introduction to Amphibious Embarkation.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MEU/ARG.

OPS-476 **4 Months** **T** __ **ASE** **L**

TASK: Perform as the OIC of an Air Support Element (ASE) on a MEU.

CONDITION(S): Field.

STANDARD(S): Plan for and deploy as the OIC of an ASE on a MEU.

PREREQUISITE(S): MCI 04.7 Introduction to Amphibious Embarkation.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MEU/ARG.

OPS-478 **4 Months** **T** __ **MACG Det** **L**

TASK: Perform as the OIC of a MACG Detachment on a MEU.

CONDITION(S): Field.

STANDARD(S): Plan for and deploy as the OIC of a MACG Detachment on a MEU.

PREREQUISITE(S): QUAL-292 and/or QUAL-293 (QUAL-394 recommended). MCI 04.7 Introduction to Amphibious Embarkation.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MEU/ARG.

OPS-480 40.0 __ __ TACC L/S

TASK: Operate in the Tactical Air Command Center (TACC).

CONDITION(S): Field or garrison.

STANDARD(S): Perform in an operational billet in the TACC.

PREREQUISITE(S): QUAL-292 or QUAL-293.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.4.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): TACC.

OPS-481 40.0 __ __ MACS L/S

TASK: Operate in a MACS Detachment (TAOC, EW/C, ATC, AD).

CONDITION(S): Field or garrison.

STANDARD(S): Perform in an operational billet.

PREREQUISITE(S): QUAL-292 or QUAL-293.

REFERENCE(S): MCWP 3-25, MCWP 3-25.6, MCWP 3-25.7, MCWP 3-25.8, and MCWP 3-25.9.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MACS Detachment(s).

OPS-482 40.0 __ __ LAAD Bn L

TASK: Operate with a LAAD unit at the battery, platoon or section level on a field **deployment.**

CONDITION(S): Field.

STANDARD(S): Perform in an operational billet.

PREREQUISITE(S): QUAL-292 or QUAL-293.

REFERENCE(S): MCWP 3-25, MCWP 3-25.10, and MCWP 3-25.11.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): LAAD Battery or below.

OPS-483 **40.0** __ __ **MWCS** **L**

TASK: Operate with a Communications Squadron Detachment on a field deployment.

CONDITION(S): Field.

STANDARD(S): Perform in an operational billet.

PREREQUISITE(S): QUAL-292 or QUAL-293.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.12.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MWCS Detachment.

OPS-484 **40.0** **T** __ **ACE** **L/S**

TASK: Conduct operational planning for ACE operations.

CONDITION(S): Garrison or field.

STANDARD(S): As a representative to the ACE staff, accomplish the following:

(1) Assist in the planning of aircraft control.
(2) Assist in the planning of airspace management.
(3) Provide liaison between ACE and GCE.

PREREQUISITE(S): QUAL-292 and QUAL-293 (QUAL-394 and QUAL-494 recommended).

REFERENCE(S): MCWP 3-2, MCWP 3-25, and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): ACE.

OPS-485 **40.0** **T** __ **None** **L/S**

TASK: Serve as a liaison in the operations section of a joint/combined command and control organization.

CONDITION(S): Garrison or field.

STANDARD(S): Perform as a liaison to a TAGS/combined command and control organization.

PREREQUISITE(S): QUAL-293 or QUAL-294 (QUAL-394 and QUAL-494 recommended).

REFERENCE(S): MCWP 3-2, MCWP 3-25, MCWP 3-25.1, and MCWP 3-25.2.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Joint/Combined Command and Control Organization.

OPS-486 **40.0** **T** __ **None** L/S

TASK: Conduct operational planning for joint/combined operations.

CONDITION(S): Garrison or field.

STANDARD(S): As a representative to a joint/combined staff, accomplish the following:

(1) Assist in the planning of aircraft control.
(2) Assist in the planning of airspace management.

PREREQUISITE(S): QUAL-394 (QUAL-494 recommended).

REFERENCE(S): MCWP 3-2, MCWP 3-25, and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): TAGS.

OPS-487 **6 Months** __ __ __ **L**

TASK: **Be assigned to a MACG unit other than the MASS.**

CONDITION(S): Garrison or field.

STANDARD(S): Serve in an operational billet while assigned to **a MACG unit other than the MASS.**

PREREQUISITIE(S): QUAL-292 and QUAL-293.

REFERENCE(S): MCWP 3-25.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MACG.

QUAL-494 **300.0** __ **E** **MACCS** **L**

TASK: Successfully complete the Weapons and Tactics Instructor (WTI) Course.

CONDITION(S): Field.

STANDARD(S): Graduate and be designated a WTI (MOS 7277).

PREREQUISITE(S): QUAL-394.

REFERENCE(S): MCO P3500.12 Weapons and Tactics Training Program (WTTP).

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAWTS-1.

1040. SPECIAL TRAINING REQUIREMENTS

1. Requirements, Qualifications, and Designations

a. Purpose. To track events that do not have CRP credit but augment the proficiency of the DASC.

b. General

(1) **Administrative Notes**. This phase is reserved to track events that augment the proficiency of the DASC.

(2) **Prerequisite(s)**. None.

(3) **Refresher Training**. Refresher training is required based upon the individual requirement of event. Air Support Control Officers will complete "R" coded events in the 600 level syllabus as required.

c. Crew Requirements. None.

d. Academic Training. None.

e. Live and Simulator Event Training (3 Events, 17 Hours)

RQD-682 1.0 T,R E NONE L

TASK: Pass Aviation Flight Physical.

CONDITION(S): Garrison.

STANDARD(S): U.S. Navy Bureau of Medicine (BUMED).

PREREQUISITE(S): None.

REFERENCE(S): OPNAVINST 3710 and MCO P1326.2.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Flight Surgeon.

RQD-683 8.0 T,R E NONE L

TASK: Pass Flight Physiology.

CONDITION(S): Garrison.

STANDARD(S): BUMED.

PREREQUISITE(S): RQD-682.

REFERENCE(S): OPNAVINST 3710 and MCO P1326.2.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): AVIATION SURVIVAL TRAINING CENTER.

RQD-684 **8.0** **T,R** **E** **NONE** **L**

TASK: Pass appropriate Aviation Swim Qualification.

CONDITION(S): Garrison.

STANDARD(S): BUMED.

PREREQUISITE(S): RQD-682 and RQD-683.

REFERENCE(S): OPNAVINST 3710 and MCO P1326.2.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): AVIATION SURVIVAL TRAINING CENTER.

2. Special Training Courses. While not a requirement, the following courses will enhance the training progression for this syllabus:

(1) Joint Air Operations Staff Course (JAOSC), USAFAGOS, Hurlburt Field, FL.
(2) Fire Support Coordination (FSC) Course, EWTG, Little Creek, VA/ Coronado, CA.
(3) Tactical Air Control Party (TACP) Course, EWTG, Little Creek, VA/ Coronado, CA.
(4) Aviation Combat Element Staff Planning Course, EWTG, Little Creek, VA/Coronado, CA.
(5) ARG/MEU(SOC) Staff Planning Course, EWTG, Little Creek, VA/ Coronado, CA.
(6) Expeditionary Warfare Staff Planning Course, EWTG, Little Creek, VA/Coronado, CA.
(7) Joint Maritime Prepositioning Force (MPF) Staff Planning Course, EWTG, Little Creek, VA/Coronado, CA.
(8) Control of Aircraft during an Amphibious Operations, EWTG, Little Creek, VA.
(9) Air Mission Commander's Course, NSAWC, NAS Fallon, NV.

1050. EXPENDABLE ORDNANCE REQUIREMENTS. None.

1060. PROFICIENCY INTERVALS. Table 10-7, 10-8, 10-9, and 10-10 contain the proficiency intervals for the combat readiness, combat qualification, full-combat qualification, and special skill training levels.

Table 10-7. ASCO Proficiency Interval for the Combat Readiness Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	200	1	16	0.75	X	X	X	X	L/S
	201	1	16	0.75	X	X	X	X	L/S
	209	1	16	0.75	X		X	X	L

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
FAM	210	1		0.5	X				L/S
	211	1		0.5	X				L/S
	212	1		0.5	X				L/S
	213	1		0.5	X				L/S
	214	1		0.5	X				L/S
	215	1		0.5	X				L/S
NBC	222	4		0.5	X	X			S/L
OPS	232	25		1.5	X				L/S
	233	25		1.5	X				L/S
	252	4		0.5	X	X			L
	262	16		0.75	X				L
QUAL	292	8	16	2.5	X		X	X	L/S
	293	8	16	2.5	X		X	X	L/S

Table 10-8. ASCO Proficiency Interval for the Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	309	1	16	1.5	X		X	X	L
NBC	324	4		0.5	X	X			S/L
OPS	334	50		3.5	X				L/S
	336	4		1	X	X			L
	342	40		2.5	X				S
	354	4		1.5	X	X			L
	356	4		2.25	X	X			L
	366	16		2.25	X				L
QUAL	394	8	16	5	X		X	X	L/S

Table 10-9. ASCO Proficiency Interval for the Full-Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	409	1	16	0.3	X		X	X	L
NBC	426	4		0.25	X	X			S/L
OPS	436	120		0.45	X	X			L

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	438	120		0.4	X				L
	472	4 MOS		0.3	X				L
	476	4 MOS		0.4	X				L
	478	4 MOS		0.4	X				L
	480	40		0.25					L/S
	481	40		0.25					L/S
	482	40		0.25					L
	483	40		0.25					L
	484	40		0.25	X				L/S
	485	40		0.25	X				L/S
	486	40		0.25	X				L/S
	487	6 MOS		0.25					L
QUAL	494	300		0.5				X	L

Table 10-10. ASCO Proficiency Interval for the Special Training Requirements Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
RQD	682	1	As Required	0	X		X	X	L
	683	8	As Required	0	X		X	X	L
	684	8	As Required	0	X		X	X	L

1070. <u>EVENT UPDATE CHAINING</u>. Table 10-11 contains the event update chaining for the ASCO.

Table 10-11. ASCO Combat Ready and Combat Qualification Training Event Update Chaining

EVENTS		EVENTS UPDATED
201		
202		
209		
210		
211		
212		
213		
214		

EVENTS		EVENTS UPDATED
215		
222		
232		
233		
252		
262		
292		
293		
309		209, 200, 201
324		
334		
336		
342		
354		
356		
366		
394		292, 293
409		309
426		
436		
438		
472		
476		
478		
480		
481		
482		
483		
484		
485		
486		
487		
494		
682		

EVENTS		EVENTS UPDATED
683		
684		

DIRECT AIR SUPPORT CENTER (DASC) CREW CHIEF (MOS 7242)

	PARAGRAPH	PAGE
INTRODUCTION	1100	11-2
CORE COMPETENCIES/SKILLS	1101	11-2
SUMMARY/INDEX OF LIVE/SIMULATOR EVENTS	1102	11-4
UNIT TRAINING POLICIES	1103	11-6
DASC CREW CHIEF TRAINING PROGRESSION PHILOSOPHY	1104	11-7
TRAINING PROGRESSION MODEL FOR DASC CREW CHIEF	1105	11-8
PROGRAMS OF INSTRUCTION (POI) FOR DASC CREW CHIEF	1106	11-9
SPECIAL DESIGNATIONS	1107	11-9
GROUND/ACADEMIC TRAINING	1110	11-10
TRAINING REFERENCES	1111	11-11
LIVE/SIMULATOR EVENT TRAINING: DASC CREW CHIEF	1120	11-12
LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS	1130	11-12
COMPONENTS OF A T&R EVENT	1131	11-13
COMBAT CAPABLE TRAINING	1132	11-15
COMBAT READY TRAINING	1133	11-15
COMBAT QUALIFICATION TRAINING	1134	11-18
FULL-COMBAT QUALIFICATION TRAINING	1135	11-23
SPECIAL TRAINING REQUIREMENTS	1140	11-28
EXPENDABLE ORDNANCE REQUIREMENTS	1150	11-28
PROFICIENCY INTERVALS	1160	11-28
EVENT UPDATE CHAINING	1170	11-29

1100. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop UNIT warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective Training and Readiness (T&R) program is the first step in providing the MAGTF Commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, unit training managers can construct and execute an effective training plan which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training to satisfy the training requirements of Commanders at all levels in order to accomplish their wartime mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and formed the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the Systems Approach to Training used in T&R development and Marine Corps UTM principles.

3. The Marine Corps Combat Readiness Evaluation System (MCCRES) and the T&R program are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills which enable units to satisfy the requirements as outlined in their applicable volume of the MCCRES.

1101. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills which support the Mission Essential Tasks (METL) derived from FMFM 5-1 and T/O mission statements, which are realistically expected to be assigned in combat. Core Competencies for DASC are listed below.

2. **MISSION**. The mission of the DASC is to process immediate air requests, integrate aircraft employment with other supporting arms, manage terminal control assets, and procedurally control aircraft operating in its area of responsibility.

3. **MISSION ESSENTIAL TASK LIST**

a. Coordinates the execution of preplanned direct air support.

b. Receive, process, and coordinate requests for immediate direct air support.

c. Coordinate the execution of direct air support missions with other supporting arms.

d. Plan, install, operate and maintain communications to conduct direct air support operations.

e. Plan, install, operate and maintain an airborne DASC capability to conduct direct air support operations.

f. Conduct liaison to facilitate direct air support operations, as necessary.

g. Maintain continuous DASC functions while displacing.

h. Conduct amphibious/expeditionary operations to include the capability to phase control ashore.

i. Conduct combat operations in an NBC environment.

4. **DASC CORE CAPABILITIES**

a. A core capable DASC is able to field, at a minimum, a DASC with an airborne extension and Air Support Elements capable of supporting the requirements of the MEU(SOC).

b. Each DASC crew consists of, at a minimum:

(1) Senior Air Director.
(1) Crew Chief.
(2) Air Support Controllers.
    (a) Tactical Air Director.
    (b) Helicopter Director.
(6) Air Support Net Operators.
    (a) TAR/HR Net Operator.
    (b) TAC/DAS Net Operator.
    (c) FSC Net Operator.
    (d) Information System Operator.
    (e) Fixed Wing Plotter.
    (f) Rotary Wing Plotter.
(2) Liaisons.
    (a) Officer.
    (b) Enlisted.

c. At a minimum, an airborne DASC crew consists of:

(1) Senior Air Director.
(1) Crew Chief.
(2) Air Support Controllers.
    (a) Tactical Air Director.
    (b) Helicopter Director.
(3) Air Support Net Operators.
    (a) TAR/HR Net Operator.
    (b) TAC/DAS Net Operator.
    (c) FSC Net Operator.

d. At a minimum, a MEU(SOC) Air Support Element consists of:

(2) Air Support Control Officers.
(2) Air Support Net Operators.
    (a) TAR/HR Net Operator.
    (b) TAC/DAS Net Operator.

1102. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. **COMBAT CAPABLE STAGE**. This stage is accomplished by the Air Support Net Operator Training and Readiness Syllabus.

2. **COMBAT READY STAGE**. Table 11-1 contains a listing of the combat readiness training events and associated page numbers.

Table 11-1. Combat Readiness Training List

EVENT	TASK	PAGE
SYS-201	Pass a practical application test on motor transport/utilities support equipment.	11-16
SYS-205	Conduct briefs.	11-16
SYS-206	Identify communication problems.	11-17
SYS-207	Extract critical information from supporting documents.	11-17
SYS-209	Pass a written test of lectures B-14 through B-18 and B-23 through B-26.	11-18
OPS-241	Perform as Crew Chief in a DASC.	11-18

3. **COMBAT QUALIFICATION STAGE**. Table 11-2 contains a listing of the combat qualification training events and associated page numbers.

Table 11-2. Combat Qualification Training List

EVENT	TASK	PAGE
SYS-309	Pass a written test of lectures B-19 through B-21 and C-01, 02, 04, 07.	11-19
NBC-321	Conduct DASC operations in a Nuclear, Biological and Chemical (NBC) environment.	11-19
OPS-336	Assist in DASC site selection and communications emplacement.	11-20
OPS-339	Perform as Crew Chief in the DASC.	11-20
OPS-340	Perform as a Tactical Air Director (TAD).	11-21
OPS-341	Perform as a Helicopter Director (HD).	11-21
OPS-342	Plan and execute a DASC Simulation.	11-22
OPS-367	Perform as an NCOIC of an ASLT.	11-22
QUAL-391	Qualify as a Crew Chief.	11-22

4. **FULL-COMBAT QUALIFICATION STAGE**. Table 11-3 contains a listing of the full combat qualification training events and associated page numbers.

Table 11-3. Full Combat Qualification Training List

EVENT	TASK	PAGE
SYS-409	Pass a written test of lectures B-22, C-03, C-05 and C-06.	11-23

EVENT	TASK	PAGE
OPS-435	Perform as the NCOIC of a MASS Detachment on a field deployment.	11-24
OPS-437	Perform as the NCOIC of a MACG Detachment on a field deployment.	11-24
OPS-451	Perform as a crew chief during an Airborne DASC.	11-24
OPS-477	Perform as NCOIC during the deployment of a MEU MACG detachment.	11-25
OPS-480	Operate in a Tactical Air Command Center (TACC).	11-25
OPS-485	Serve as a liaison in the operations section of a joint/combined command and control organization.	11-25
OPS-488	Conduct operational planning for ACE operations.	11-26
OPS-489	Conduct operational planning for joint/combined operations.	11-26
QUAL-491	Successfully complete the MACCS Enlisted Weapons and Tactics Instructor (MEWTI) Course.	11-26
QUAL-492	Qualify as a Tactical Air Director (TAD).	11-27
QUAL-493	Qualify as a Helicopter Director (HD).	11-27

5. **REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS**. None.

6. **OPERATOR CORE SKILLS**. Core skills are depicted in the following matrix (table 11-4) and directly support the METL for each Unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 11-4. Core Skills

METL									
	A	B	C	D	E	F	G	H	I
SYS-201				X			X	X	
SYS-205			X						
SYS-206				X	X		X		
SYS-207	X	X	X	X	X			X	
SYS-209	X	X	X	X	X		X	X	
OPS-241	X	X	X	X	X	X			
SYS-309	X	X	X	X	X		X	X	
NBC-321									X
OPS-336				X			X		
OPS-339	X	X	X	X	X	X			
OPS-340	X	X	X	X			X		

METL									
	A	B	C	D	E	F	G	H	I
OPS-341	X	X	X	X			X		
OPS-342	X	X	X	X		X			
OPS-367		X	X	X		X			
QUAL-391	X	X	X	X	X	X	X	X	
SYS-409	X	X	X		X	X		X	
OPS-437						X		X	
OPS-451		X	X	X	X	X			
OPS-477						X		X	
OPS-480	X	X	X			X			
OPS-485						X			
OPS-488	X		X	X		X			
OPS-489	X		X	X		X			
QUAL-491	X	X	X	X	X	X	X	X	
QUAL-492	X	X	X	X			X		
QUAL-493	X	X	X	X			X		

1103. UNIT TRAINING

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Squadron and battalion commanding officers will ensure that this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation unit in combat lies at the heart of the T&R program. Unit readiness and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform those critical skills required in combat is essential.

3. Commanders shall ensure that all tactical training is conducted to a MCCRES standard. The MCCRES, as outlined in MCO P3501.1, is the unit training standard, and all syllabus events shall be tailored to meet MCCRES requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors which all commanders must address include, but are not limited to:

a. **Efficiency**. Time and resources expended are measurements for training efficiency. Commanders must ensure that all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. **Individual Differences**. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. **Decentralization of Training**. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. Commanders shall provide personnel the opportunities to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit.

6. **Risk Management**. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. **MACCS Integrated System Training**. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated airspace command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEX's should focus on the establishment of necessary communications and data links between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Information Link capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

1104. DASC CREW CHIEF TRAINING PROGRESSION PHILOSOPHY

1. The initial step of the progression model addresses Core Competency training. This model streamlines the Air Support Operations Operator training curricula, based on systematic, focused training which results in shorter time to qualification. Upon designation as an Air Support Operations Operator after nine weeks of instruction at MCCES, the focus is to become a qualified ASNO within two years, and a qualified CC after five years in the MOS. Core Competency is achieved by the successful completion of the 100-300 level syllabus.

2. The second step of the progression model addresses Core Plus training. This model focuses training on those special skills required once an Air Support Operations Operator has been designated a CC and is prepared for advanced training. Some syllabus items may be achieved prior to CC qualification. Core Plus training objectives are contained in the 400 level syllabus.

3. The 600 level syllabus is reserved for tracking those requirements, qualifications, and designations that have refly factors for proficiency yet do not have CRP credit.

1105. DASC CREW CHIEF TRAINING PROGRESSION MODEL

1. The Training Progression Model for the DASC CREW CHIEF is depicted in figure 11.1.

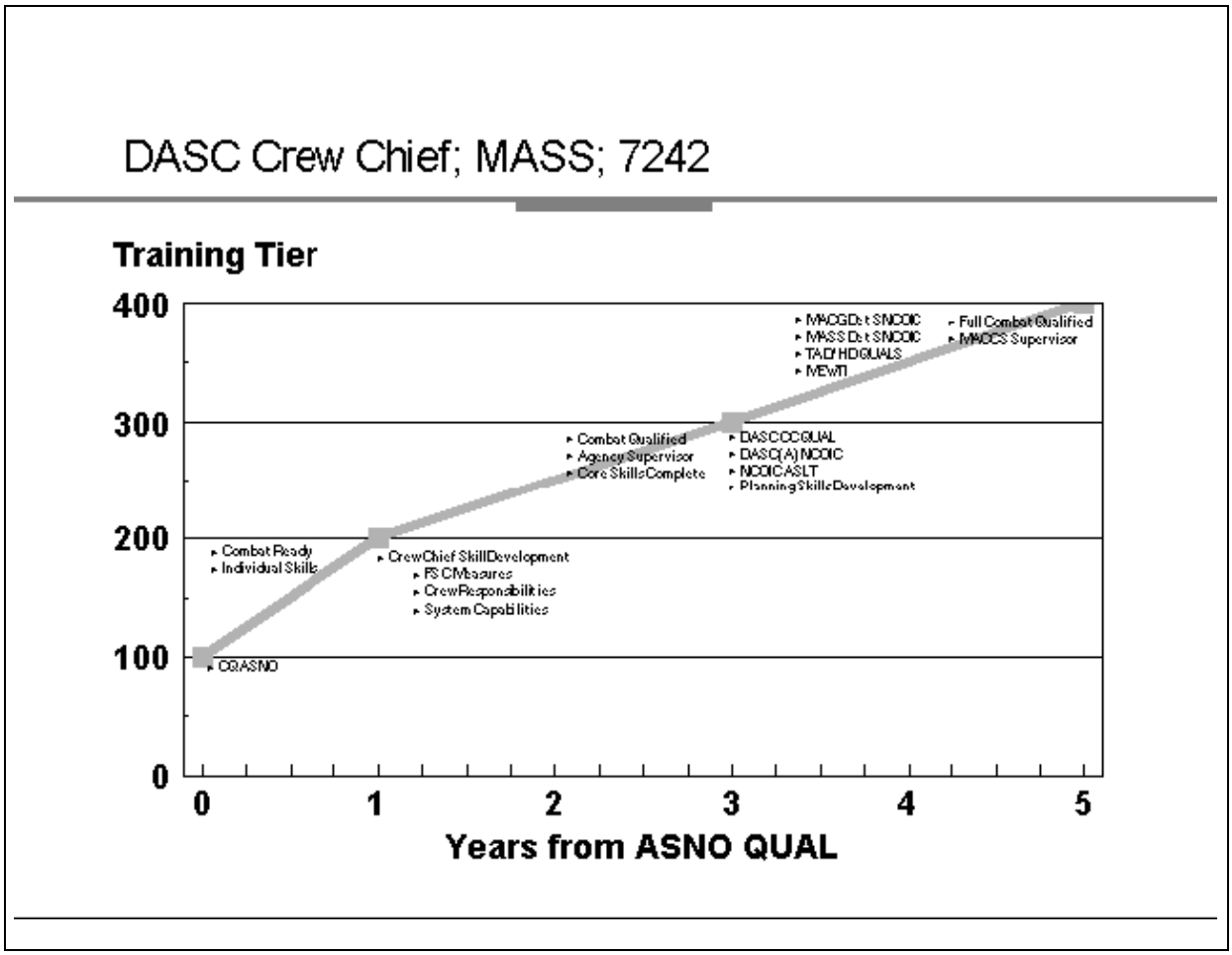


FIGURE 11.1 -- DASC CREW CHIEF TRAINING PROGRESSION MODEL

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those qualifications an individual attains after completion of the ASNO syllabus. The highest tier of the progression model will contain those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable tier (ANSO syllabus) will in most cases be accomplished after two years in the MOS. With successful completion of the combat capable

tier, unit personnel are assigned ASNO qualification and progress to the Combat Ready tier.

4. The Combat Ready tier (200 level) should take the individual who has completed initial MOS skills training and make him or her proficient in core competencies. With successful completion of the combat ready tier, unit personnel move to the Combat Qualification tier.

5. The Combat Qualification tier (300 level) will be that portion of the model that produces core competent combat leaders and crew members. The personnel that are being trained in the combat qualification tier are those Marines a commanding officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Full-Combat Qualification tier is reserved for large scale integrated missions and/or events having unique mission taskings. Personnel that complete this tier have achieved core-plus skills and are capable of the most demanding combat tasks. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily basis, and assist the commanding officer with oversight of the unit training program.

7. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification of "combat ready" and "combat qualified" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

1106. PROGRAMS OF INSTRUCTION (POI) FOR DASC CREW CHIEF

1. **BASIC DASC CREW CHIEF**

WEEKS	COURSE/PHASE	ACTIVITY
108	AIR SUPPORT NET OPERATOR (ASNO)/ COMBAT QUALIFIED	MASS

2. **REFRESHER DASC CREW CHIEF**

WEEKS	COURSE/PHASE	ACTIVITY
12	CREW CHIEF/ COMBAT QUALIFIED	MASS

3. **CONVERSION DASC CREW CHIEF**

WEEKS	COURSE/PHASE	ACTIVITY
4	CREW CHIEF/ COMBAT QUALIFIED	MASS

1107. SPECIAL DESIGNATIONS

1. **Air Support Net Operator Qualification.** An Air Support Operations Operator (7242) is ASNO qualified after having completed the required events of the Combat Qualified phase of the appropriate T&R syllabus. The Air

Support Operations Operator shall be certified as an ASNO by a Combat Qualified DASC CC, DASC MEWTI, or the MAWTS-1 DASC Instructor/chief, and designated ASNO qualified by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

2. **DASC Crew Chief (CC) Qualification**. An Air Support Operations Operator (7242) is DASC-CC qualified after having completed the required events of the appropriate T&R syllabus. The Air Support Operations Operator shall be certified as a DASC-CC by a Combat Qualified DASC SAD, DASC WTI, DASC MEWTI, or the MAWTS-1 DASC instructor/chief and designated DASC-CC qualified by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

3. **Tactical Air Director (TAD) Qualification**. An Air Support Operations Operator (7242) is TAD qualified after having completed the required events of the Full Combat Qualification phase in paragraph 1335 below. The crew member shall be certified as a TAD by a Combat Qualified SAD, DASC WTI or the MAWTS-1 DASC instructor and designated TAD qualified by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

4. **Helicopter Director (HD) Qualification**. An Air Support Operations Operator (7242) is HD qualified after having completed the required events of the Full Combat Qualification phase in paragraph 1335 below. The crew member shall be certified as a HD by a Combat Qualified SAD, DASC WTI or the MAWTS-1 DASC instructor and designated HD qualified by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualification.

WEEKS	COURSE/PHASE	ACTIVITY
156	Crew chief/combat qualified	MASS
40	TAD/HD/Full-Combat Qualified	MASS

1110. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 11-5 into their training plans. Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 11-5. Recommended T&R Lectures

Lecture Code	Lecture Title	Sponsor
	Proposed 200 Level: Combat Ready Training	
B-14	AEW	MAWTS-1
B-15	MACCS/Joint Data link	MAWTS-1
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1
B-18	Airspace Planning/Management (Combat Airspace)	MAWTS-1
B-23	CSAR/TRAP	MAWTS-1

Lecture Code	Lecture Title	Sponsor
B-24	NEO Execution	MAWTS-1
B-25	Execution Checklist	MAWTS-1
B-26	MAGTF Automated System Integration	MAWTS-1
	Proposed 300 Level: Combat Qualified Training	
B-19	Tanker Management	MAWTS-1
B-20	Armed Reconnaissance	MAWTS-1
B-21	UAV Programs & Integration	MAWTS-1
C-01	Theater Air Ground System (TAGS)	MAWTS-1
C-02	Joint Air Operations	MAWTS-1
C-04	MACCS in support of Special Operations	MAWTS-1
C-07	JTAO Procedures	USFORSCOM
	Proposed 400 Level: Full Combat Qualified Training	
B-22	Link Architecture & Procedures	MAWTS-1
C-03	Theater Missile Defense	MAWTS-1
C-05	ROE Development	MAWTS-1
C-06	SIS Aircraft	MAWTS-1

(*) The lecture code is standardized throughout all MACCS related syllabi, and are used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may be listed non-sequentially.

2. External academic courses of instruction required to complete the syllabus are listed below.

COURSE	ACTIVITY
MACCS Enlisted Weapons and Tactics Instructor (MEWTI) Course	MAWTS-1

1111. TRAINING REFERENCES

1. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

DASC CREW CHIEF

TITLE	
MCWP 3-2	Aviation Operations
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air-Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook

MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.11	LAAD Gunner's Handbook
MCWP 3-25.12	MWCS Handbook
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 6-18	Techniques and Procedures for Fire Support Coordination
TM-11240 Series	Motor Transport Technical Characteristics
TM-11275 Series	Principal Technical Characteristics of Engineer Equipment
TM-2000 Series	USMC Communications-Electronics Equipment
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System
MCO P3500.12	Weapons and Tactics Training Program (WTTP)
JtDivO P3120.23	FSC SOP
ACP-125	Allied Communication Publication
DASC PCL	DASC Pocket Checklist

1120. LIVE/SIMULATOR EVENT TRAINING

1. **COMBAT CAPABLE STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
ASNO MCCES			60.00%

2. **COMBAT READY STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
CREW CHIEF TRAINING	6	13	15.00%
COMBAT READY TOTALS:	6	13	15.00%

3. **COMBAT QUALIFICATION STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
CREW CHIEF TRAINING	9	131	20.00%
COMBAT QUALIFICATION TOTALS:	9	131	20.00%

4. **FULL COMBAT QUALIFICATION STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
FULL COMBAT QUALIFICATION	12		5.00%
FULL COMBAT QUALIFICATION TOTALS:	12		5.00%

1130. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. **General**. The majority of the DASC Crew Chief syllabus is ground training which requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified DASC Crew Chief.

a. **Live Training**. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code.

b. **Simulator Training**. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted during DASC Simulations. Training not conducted during DASC Simulations shall be replaced with live training where applicable as indicated in the condition code.

3. **Minimum Performance Time for Syllabus "Write-Off"/Designations**. Personnel may receive credit for successful completion of any syllabus requirement (except qualifications) upon either a written, oral, or practical demonstration of proficiency, at the commanding officer's discretion. Completion of 70 percent of any syllabus requirement (except qualifications) may be "written-off" as complete at the discretion of the designated evaluator. Qualifications require a completed performance evaluation, and the designation signed by the commanding officer.

4. **Evaluation of Training**. Evaluation of those portions of the syllabus which are academic in nature will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per T&R Manual, Volume 1, and the standardized evaluation forms located in the appendix to this syllabus.

1131. COMPONENTS OF A T&R EVENT

1. **General**. An event contained within a T&R Manual is an Individual or collective training standard and contains seven or eight components, dependent on the tier in which they are contained:

1/	2/	3/	4/	5/	6/
SAM-XXX	**0.5**	**T,C,R,**	**E**	**EQUIP**	**L/S (NS)**

TASK: The title of a unit of work which needs to be done in the performance of a Marine's duties. It is a clearly stated performance-oriented action requiring learned skills and knowledge, i.e. Engage a rotary winged aircraft.

CONDITION(S): The condition(s) set for the real-world or combat circumstances in which the tasks are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this should be stated.

STANDARD(S): The performance standard indicates the basis for judging the effectiveness of the performance. It

consists of a carefully worded statement which identifies the proficiency level expected when the task is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

PERFORMANCE STEP(S): *Listed for 100 level T&R events only.* Performance steps are the actions or decisions required to fulfill proficiency established by the standard. The major performance steps which are required to perform the task to proficiency are listed in the order of performance. Minor steps are not listed.

PREREQUISITE(S): Provides a listing of academic training or other T&R events which must be completed prior to satisfying the task.

REFERENCE(S): Listing of doctrinal or reference publications which may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

ORDNANCE: A listing of Ordnance types and quantities required to satisfy the Task.

EXTERNAL SUPPORT REQUIREMENT(S): A listing or description of the external support requirements which may be required to satisfy completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES:

1/ Events are coded per Appendix B of T&R Manual Vol. 1.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable Program of Instruction (Basic POI is understood).

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed.

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision Device; Where contained within **( )** denotes optional conditions.

2. **Event Numbering**. Each event in Chapter 11 of the T&R Manual shall use the following numbering sequence:

a. The first digit will correspond to the appropriate level of training (i.e., 100/200/300/400/600)

b. The second digit will correspond to the classification of training:

(1) X00-X09 SYS (Systems)
(2) X10-X19 FAM (Familiarization)
(3) X20-X29 NBC (Nuclear, Biological, and Chemical)
(4) X30-X39 OPS (General Operation)
(5) X40-X49 OPS (Simulation)
(6) X50-X59 OPS (Airborne)
(7) X60-X69 OPS (Air Support Liaison Team)
(8) X70-X79 OPS (MEU)
(9) X80-X89 OPS (Advanced Operations)
(10) X90-X99 QUAL (Qualification)

c. The third digit will correspond to the position/billet for X20, X50-X79, and X90-X99 for 200-400 level syllabus items only, as follows:

(1) XX0 Net Operator (ASNO)
(2) XX1 Crew Chief (CC)
(3) XX2 Tactical Air Director (TAD)
(4) XX3 Helicopter Director (HD)
(5) XX5 NCOIC of a MASS Detachment/ASE/ASLT
(6) XX6 OIC of a MASS Detachment/ASE/ASLT
(7) XX7 NCOIC of a MACG Detachment
(8) XX8 OIC of a MACG Detachment

1132. COMBAT CAPABLE TRAINING

1. COMBAT CAPABLE

a. **Purpose**. To develop the basic skills necessary for a 7242 to be qualified as a basic Crew Chief. This training will be accomplished by the Marine Air Support Squadrons utilizing the ASNO T&R syllabus and will be considered (60%) trained and Combat Capable.

b. **General**

(1) **Administrative Notes**. None.

(2) **Prerequisites**. Qualify as an ASNO, Secret Clearance, normal color perception.

c. **Crew Requirements**. None.

d. **Academic Training**. Previously accomplished in Chapter 14 (ASNO syllabus).

e. **Live and Simulator Event Training (1 Events, 8 Hours)**

1133. COMBAT READY TRAINING

1. COMBAT READY TRAINING

a. **Purpose**. To develop proficiency in air support operations. Upon completion of this portion of the training syllabus, the Crew Chief is seventy-five percent (75%) trained and Combat Ready.

b. **General**

(1) **Administrative Notes**. None.

(2) **Prerequisite**

(a) The following MCI courses shall be completed prior to completing this phase of training:

NUMBER	MCI COURSE
25.4	Communications Plans and orders

(b) Additional prerequisites are listed in each syllabus event.

(3) **Refresher Training**. Refresher training is required once a qualified Crew Chief has been absent from a 7242 billet for 16 months or longer. Combat Ready individuals will complete "R" coded events in the 200 level syllabus.

(4) **Crew Requirements**. Core Competent.

(5) **Academic Training**. The lectures developed to reinforce this stage of training are lectures B-14 through B-18 and B-23 through B-26, as delineated in paragraph 1310 of this manual.

e. **Live and Simulator Event Training (6 Events, 13 Hours)**

SYS-201 1.0 C,R E MASS L/S

TASK: Pass a practical application test on motor transport/utilities support equipment.

CONDITION(S): Garrison or field provided the appropriate motor transport/utilities equipment.

STANDARD(S): The Marine will pass a practical application test with a score of 80% or greater. The test will include nomenclature, power capabilities, fuel requirements, environmental control unit configurations, hazardous material handling, and their relationship to specific DASC configurations.

PREREQUISITE(S): None.

REFERENCES: TM-11240 series, TM-11275 series.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Test provided by MCCES.

SYS-205 1.0 ____ E NONE L/S

TASK: Conduct briefs.

CONDITION(S): Field or Garrison.

STANDARD(S): Demonstrate effective briefing techniques in each of the following:

(1) Pre-watch brief
(2) Crew brief
(3) Post-watch debrief

PREREQUISITE(S): Qual-390 (ASNO Syllabus).

REFERENCE(S): MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-206 **1.0** **C,R** **E** **DASC** **L/S**

TASK: Identify communication problems.

CONDITION(S): Field or garrison.

STANDARD(S): Determine the following:

(1) Priority of net restoration/maintainence priorities.
(2) Whether the problem can be solved by the operator or technical support must be requested.
(3) Identify the difference between system degradation and possible intrusion, jamming, and interference.
(4) Initiate appropriate reports.

PREREQUISITE(S): ASNO QUAL-390.

REFERENCE(S): FM 24-18, FM 24-33, FMFM 3-30.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-207 **1.0** __ __ **None** **L/S**

TASK: Extract critical information from supporting documents.

CONDITION(S): Field or garrison.

STANDARD(S): Demonstrate proficiency in extracting critical information from Op Plans, Comm Plans, LOI's, ACEOI's, PCH's, airspace control plans, Airspace Control Orders to include, but not limited to:

(1) Frequency/radio/net requirements.
(2) Callsigns.
(3) Any local required publications.
(4) Airspace control measures/procedures.

PREREQUISITE(S): None.

REFERENCE(S): Appropriate documents.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-209 **1.0** **R** **E** **None** **L**

TASK: Pass a written test of lectures B-14 through B-18 and B-23 through B-26.

CONDITION(S): Garrison without the aid of reference.

STANDARD(S): Pass with a score of 80% or greater.

PERFORMANCE STEP(S): None.

PREREQUISITE(S): Lectures B-14 through B-18 and B-23 through B-26.

REFERENCE(S): See references for each lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Written test provided by MCCES.

OPS-241 **8.0** **R** **E** **None** **S**

TASK: Perform as Crew Chief in a DASC

CONDITION(S): Garrison.

STANDARD(S): The Crew Chief will supervise a crew processing requests (JTAR, ASR) at a minimum rate of 7 per hour and sending/receiving a minimum of 20 items of information per hour to include but not limited to:

(1) Equipment status reports.
(2) Weather.
(3) Air Defense Warning Conditions/Weapons Control Status (ADWC/WCS).
(4) Changes/updates to the Air Tasking Order.

PREREQUISITE(S): QUAL 390 of Chapter 14 (ASNO).

REFERENCE(S): MCWP 3-25.5, DASC POCKET CHECK LIST.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

1134. COMBAT QUALIFICATION TRAINING

1. Combat Qualification Training

a. **Purpose**. To develop advanced proficiency in air support operations. Upon completion of this portion of the training syllabus, a Crew Chief is ninety-five percent (95%) trained and Combat Qualified.

b. **General**

(1) **Administrative Notes**. Upon completion of this phase of training, an Air Support Operations Operator will be Crew Chief qualified in the DASC.

(2) **Prerequisite**. None.

(3) **Refresher Training**. Refresher training is required once a qualified Crew Chief has been absent from a 7242 billet for 16 months or longer. Combat Qualified individuals will complete "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. Core Competent DASC crew.

d. **Academic Training**. The lectures developed to reinforce this stage of training are lectures B-19 through B-21 and C-01, 02, 04, 07 as delineated in paragraph 1310 of this manual.

e. **Live and Simulator Event Training (9 Events, 131 Hours)**

SYS-309 **1.0** **R** **E** **None** **L**

TASK: Pass a written test of lectures B-19 through B-21 and C-01, 02, 04, 07.

CONDITION(S): Garrison without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PREREQUISITE(S): SYS-209.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Written test provided by MAWTS-1.

NBC 321 **4.0** **C,R** **DASC** **S/L**

TASK: Conduct DASC operations in a Nuclear, Biological and Chemical (NBC) environment.

CONDITION(S): Garrison or field in MOPP-IV.

STANDARD(S): Perform as a Crew Chief for a minimum of 4 hours during air support operations in MOPP-IV.

PREREQUISITE(S): None.

REFERENCE(S): FMFM 11-1 and MCCRES.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-336 **4.0** **T,C** __ **DASC** **L**

TASK: Assist in DASC site selection and communications emplacement.

CONDITION(S): Field.

STANDARD(S): Implement skills in selection of a DASC site and emplacement of communications equipment, including:

(1) Communications connectivity.
(2) FSCC coordination.
(3) Site security.
(4) Camouflage and dispersion.
(5) Advance Party/RSOP.
(6) Support equipment.
(7) Trafficability.
(8) Establish priorities for equipment emplacement.
(9) Echelon considerations.
(10) Identify alternate sites.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-339 **8.0** **R** **E** **None** **L**

TASK: Perform as Crew Chief in the DASC.

CONDITION(S): Field.

STANDARD(S): The Crew Chief will supervise a crew processing requests (JTAR, ASR) at a minimum rate of 7 per hour and sending/receiving a minimum of 20 items of information per hour to include but not limited to:

(1) Equipment status reports.
(2) Weather.
(3) Air Defense Warning Condition/Weapons Control Status (ADWC/WCS).
(4) Changes/updates to the Air Tasking Order.

PREREQUISITE(S): OPS-241.

REFERENCE(S): MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None

OPS-340 **25.0** __ ___ **DASC** **S/L**

TASK: Perform as a Tactical Air Director (TAD).

CONDITION(S): Garrison or field at a minimum rate of two sorties per hour.

STANDARD(S): Implement skills as a TAD, including:

(1) Parse a USMTF formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF.

OPS-341 **25.0** __ __ **DASC** **S/L**

TASK: Perform as a Helicopter Director (HD).

CONDITION(S): Garrison or field, at a minimum of two sorties per hour.

STANDARD(S): Implement skills as a HD, including:

(1) Parse a USMTF-formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF.

OPS-342 **40.0** __ __ **DASC** **S**

TASK. Plan and execute a DASC Simulation.

CONDITION(S): Garrison or field.

STANDARD(S): Implement skills to plan, coordinate, and execute a DASC Simulation to meet local unit training goals.

PREREQUISITE(S): OPS-241.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-367 **16.0** **DASC** **L**

TASK: Perform as an NCOIC of an ASLT.

CONDITION(S): Field.

STANDARD(S): Demonstrate abilities in the following:

(1) Conduct brief/debrief.
(2) Communications.
(3) Plan and coordinate ASLT equipment and personnel support requirements.
(4) Interagency coordination.
(5) System employment.
(6) Information flow.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): FSCC.

QUAL-391 **8.0** **R** **E** **DASC** **L/S**

TASK: Qualify as a Crew Chief.

CONDITION(S): Field or garrison.

STANDARD(S): The Crew Chief will supervise a crew processing requests (JTAR, ASR) at a minimum rate of 7 per hour and sending/receiving a minimum of 20 items of information per hour to include but not limited to:

(1) Equipment status reports.
(2) Weather.
(3) Air Defense Warning Conditions/Weapons Control Status.
(4) Changes/updates to the Air Tasking Order.

PREREQUISITE(S): OPS-339.

REFERENCE(S): MCWP 3-25.5

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF.

1135. SPECIAL SKILL QUALIFICATION TRAINING

1. Full-Combat Qualification Training

a. **Purpose**. To develop comprehensive Core Plus training in MACCS and MAGTF interagency operations. Upon completion of this portion of the training syllabus, the Air Support Operations Operator is one hundred percent (100%) trained.

b. **General**

(1) **Administrative Notes**. Upon completion of this phase of training, an Air Support Operations Operator will have the skills to plan and execute advanced DASC operations in a joint and/or combined environment.

(2) **Prerequisite(s)**. Prerequisites are listed in each syllabus event.

c. **Crew Requirements**. None.

d. **Academic Training**. The lectures developed to reinforce this stage of training are lectures B-22, C-03, C-05 and C-06 as delineated in paragraph 1310 of this manual.

e. **Live and Simulator Event Training (12 Events, 4 Months 721 Hours)**

SYS-409 **1.0** **R** **E** **None** **L**

TASK: Pass a written test of lectures B-22, C-03, C-05 and C-06.

CONDITION(S): Garrison without the aid of references.

STANDARD(S): Pass a written test with a score of 80% or greater.

PREREQUISITE(S): SYS-309.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Written test provided by MAWTS-1.

OPS-435 **120.0** **E** **MACG** **L**

TASK: Perform as the NCOIC of a MASS Detachment on a field deployment.

CONDITION(S): Field.

STANDARD(S): Successful planning for deployment, execution, and retrograde of a MASS detachment.

PREREQUISITE(S): None (QUAL-391 recommended).

REFERENCE(S): MCWP 3-25.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MACCS.

OPS-437 **120.0** **MACG** **L**

TASK: Perform as the NCOIC of a MACG Detachment on a field deployment.

CONDITION(S): Field.

STANDARD(S): Successful planning for deployment, execution, and retrograde of a MACG detachment.

PREREQUISITE(S): None (QUAL-391 and OPS-435 recommended).

REFERENCE(S): MCWP 3-25.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MACCS.

OPS-451 **4.0** **C** __ **DASC** **L**

TASK: Perform as a crew chief during an airborne DASC.

CONDITION(S): Field.

STANDARD(S): Demonstrate the ability to plan and execute DASC(A) operations:

(1) Logistical requirements.
(2) Communications considerations.
(3) External agency coordination.
(4) Physiological requirements.

PREREQUISITE(S): OPS-241.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): KC-130.

OPS-477 **4 months** _ __ **MACG Det** **L**

TASK: Perform as NCOIC during the deployment of a MEU MACG detachment.

CONDITION(S): Field

STANDARD(S): Successfully plan and deploy as NCOIC of a MACG detachment on a MEU.

PREREQUISITE(S): QUAL-391.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MEU/ARG.

OPS-480 **40.0** __ __ **TACC** **L/S**

TASK: Operate in a Tactical Air Command Center (TACC).

CONDITION(S): Field or garrison.

STANDARD(S): Perform in an operational billet in the TACC.

PREREQUISITE(S): Qual-390 of ASNO syllabus.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.4.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): TACC.

OPS-485 **40.0** _ **None** **L/S**

TASK: Serve as a liaison in the operations section of a joint/combined command and control organization.

CONDITION(S): Garrison or field.

STANDARD(S): Perform as liaison to a TAGS/combined command and control organization.

PREREQUISITE(S): QUAL-391 (QUAL-491 recommended).

REFERENCE(S): MCWP 3-2, MCWP 3-25, MCWP 3-25.1, and MCWP 3-25.2.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Joint/Combined Command and Control Organization.

OPS-488 **40.0** _ __ **ACE** **L/S**

TASK: Conduct operational planning for ACE operations.

CONDITION(S): Garrison or field.

STANDARD(S): As a representative to the ACE staff, accomplish the following:

(1) Assist in the planning of aircraft control.
(2) Assist in the planning of airspace management.
(3) Provide liaison between ACE and GCE.

PREREQUISITE(S): QUAL-391 (QUAL-491 recommended).

REFERENCE(S): MCWP 3-2, MCWP 3-25, and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): ACE.

OPS-489 **40.0** __ **NONE** __ **L/S**

TASK: Conduct operational planning for joint/combined operations.

CONDITION(S): Garrison or field.

STANDARD(S): As a representative to a joint/combined staff, accomplish the following:

(1) Assist in the planning of aircraft control.
(2) Assist in the planning of airspace management.

PREREQUISITE(S): QUAL-391 (QUAL-491 recommended).

REFERENCE(S): MCWP 3-2, MCWP 3-25, and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): TAGS.

QUAL 491 **300.0** _ **E** **MACCS** **L**

TASK: Complete the MACCS Enlisted Weapons and Tactics Instructor (MEWTI) Course.

CONDITION(S): Field.

STANDARD(S): Graduate with a score of 80% or greater from the MEWTI course.

PREREQUISITE(S): QUAL-391.

REFERENCE(S): MCO P3500.12 Weapons and Tactics Training Program (WTTP).

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAWTS-1.

QUAL 492 **8.0** **R** **E** **DASC** **L/S**

TASK: Qualify as a Tactical Air Director (TAD).

CONDITION(S): Garrison or field at a minimum rate of two sorties per hour.

STANDARD(S): Implement skills as a TAD, including:

(1) Parse a USMTF formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.

PREREQUISITE(S): QUAL-391, OPS-340.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF.

QUAL 493 **8.0** **R** **E** **DASC** **L/S**

TASK: Qualify as a Helicopter Director (HD).

CONDITION(S): Garrison or field, at a minimum of two sorties per hour.

STANDARD(S): Implement skills as a HD, including:

(1) Parse a USMTF formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.

PREREQUISITE(S): QUAL-391, OPS-341.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MAGTF.

1140. SPECIAL TRAINING REQUIREMENTS

1. While not a requirement, the following courses will enhance the training progression for this syllabus:

(1) Joint Air Operations Staff Course (JAOSC), USAFAGOS, Hurlburt Fld, FL.
(2) Fire Support Coordination Course, EWTG, Little Creek, VA/Coronado, CA.
(3) Expeditionary Warfare Staff Planning Course, EWTG, Little Creek, VA/Coronado, CA.
(4) Control of Aircraft during an Amphibious Operations, EWTG, Little Creek, VA.
(5) Joint Maritime Prepositioning Force (MPF) Staff Planning Course, EWTG, Little Creek, VA/Coronado, CA.

1150. EXPENDABLE ORDNANCE REQUIREMENTS. None.

1160. PROFICIENCY INTERVALS. Table 11-6, 11-7, and 11-8 contain the proficiency intervals for the combat capable/readiness, combat qualification, and full-combat qualification levels.

Table 11-6. DASC Crew Chief Proficiency Interval for the Combat Capable/Readiness Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
QUAL	390	8		60			X	X	From ASNO Syllabus
SYS	201	1	16	0.75		X	X	X	L/S
	205	1		1				X	L/S
	206	1	16	1.25		X	X	X	L/S
	207	1		1.25					L/S
	209	1	16	0.75			X	X	L
	241	8	16	10			X	X	S

Table 11-7. DASC Crew Chief Proficiency Interval for the Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	309	1	16	1.5			X	X	L
NBC	321	4	16	0.5		X	X		S/L
OPS	336	4		1	X	X			L
	339	8	16	3.5			X	X	L

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	340	25		2					S/L
	341	25		2					S/L
	342	40		2.5					S
	367	16		2					L
QUAL	391	8	16	5			X	X	L/S

Table 11-8. ASCO Proficiency Interval for the Full-Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	409	1	16	0.3			X	X	L
OPS	435	120		0.25				X	L
	437	120		0.25					L
	451	4		0.25		X			L
	477	4 MOS		0.25					L
	480	40		0.25					L/S
	485	40		0.25					L/S
	488	40		0.25					L/S
	489	40		0.25					L/S
	491	300		0.7				X	L
	492	8	16	1			X	X	L/S
	493	8	16	1			X	X	L/S

1170. EVENT UPDATE CHAINING. Table 11-9 contains the event update chaining for the DASC Crew Chief.

Table 11-9. DASC Crew Chief Training Event Update Chaining

EVENTS		EVENTS UPDATED
100		
101		
102		
103		
104		
105		

EVENTS		EVENTS UPDATED
106		
107		
108		
201		
205		
206		
207		
209		
241		
309		209
321		
336		
339		241
340		
341		
342		
367		
391		241, 239
409		309
435		
437		
451		
477		
480		
485		
488		
489		
491		
492		340
493		341

AIR SUPPORT NET OPERATOR (ASNO)
(MOS 7242)

	PARAGRAPH	PAGE
INTRODUCTION	1200	12-2
CORE COMPETENCIES/SKILLS	1201	12-2
SUMMARY/INDEX OF LIVE/SIMULATOR EVENTS	1202	12-4
UNIT TRAINING POLICIES	1203	12-7
ASNO TRAINING PROGRESSION PHILOSOPHY	1204	12-8
TRAINING PROGRESSION MODEL FOR ASNO	1205	12-9
PROGRAMS OF INSTRUCTION (POI) FOR ASNO	1206	12-10
SPECIAL DESIGNATIONS	1207	12-11
GROUND/ACADEMIC TRAINING	1210	12-11
TRAINING REFERENCES	1211	12-14
LIVE/SIMULATOR EVENT TRAINING: ASNO	1220	12-15
LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS	1230	12-15
COMPONENTS OF A T&R EVENT	1231	12-16
COMBAT CAPABLE TRAINING	1232	12-17
COMBAT READY TRAINING	1233	12-26
COMBAT QUALIFICATION TRAINING	1234	12-32
FULL-COMBAT QUALIFICATION TRAINING	1235	12-37
SPECIAL TRAINING REQUIREMENTS	1240	12-39
EXPENDABLE ORDNANCE REQUIREMENTS	1250	12-40
PROFICIENCY INTERVALS	1260	12-40
EVENT UPDATE CHAINING	1270	12-43

1200. INTRODUCTION

1. The purpose of the Marine Aviation Training and Readiness (T&R) program is to provide the commander with standardized programs of instruction for all aviation personnel. The goal is to develop UNIT warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective Training and Readiness (T&R) program is the first step in providing the MAGTF Commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, unit training managers can construct and execute an effective training plan which supports the unit's mission essential tasks.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training to satisfy the training requirements of Commanders at all levels in order to accomplish their wartime mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, *Unit Training Management Guide*, and formed the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance your understanding of the Systems Approach to Training used in T&R development and Marine Corps UTM principles.

3. The Marine Corps Combat Readiness Evaluation System (MCCRES) and the T&R program are inextricably linked. The events contained within the T&R syllabus provide the basis of individual and collective skills which enable units to satisfy the requirements as outlined in their applicable volume of the MCCRES.

1201. CORE COMPETENCIES/SKILLS

1. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities and skills which support the Mission Essential Tasks (METL) derived from FMFM 5-1 and T/O mission statements, which are realistically expected to be assigned in combat. Core Competencies for the Direct Air Support Center (DASC) are listed below:

2. **MISSION**. The mission of the DASC is to process immediate air requests, integrate aircraft employment with other supporting arms, manage terminal control assets, and procedurally control aircraft operating in its area of responsibility.

3. **MISSION ESSENTIAL TASK LIST**

a. Coordinates the execution of preplanned direct air support.

b. Receive, process, and coordinate requests for immediate direct air support.

c. Coordinate the execution of direct air support missions with other supporting arms.

d. Plan, install, operate and maintain communications to conduct direct air support operations.

e. Plan, install, operate and maintain an airborne DASC capability to conduct direct air support operations.

f. Conduct liaison to facilitate direct air support operations, as necessary.

g. Maintain continuous DASC functions while displacing.

h. Conduct amphibious/expeditionary operations to include the capability to phase control ashore.

i. Conduct combat operations in an NBC environment.

4. **DASC CORE CAPABILITIES**

a. A core capable DASC is able to field, at a minimum, a ground DASC with an airborne extension and Air Support Elements capable of supporting the requirements of the MEU(SOC).

b. Each DASC crew consists of, at a minimum:

(1) Senior Air Director.
(1) Crew Chief.
(2) Air Support Controllers.
    (a) Tactical Air Director.
    (b) Helicopter Director.
(6) Air Support Net Operators.
    (a) TAR/HR Net Operator.
    (b) TAC/DAS Net Operator.
    (c) FSC Net Operator.
    (d) Information System Operator.
    (e) Fixed Wing Plotter.
    (f) Rotary Wing Plotter.
(2) Liaisons.
    (a) Officers.
    (b) Enlisted.

c. At a minimum, an airborne DASC crew consists of:

(1) Senior Air Director.
(1) Crew Chief.
(2) Air Support Controllers.
    (a) Tactical Air Director.
    (b) Helicopter Director.
(3) Air Support Net Operators.
    (a) TAR/HR Net Operator.
    (b) TAC/DAS Net Operator.
    (c) FSC Net Operator.

d. At a minimum, a MEU(SOC) Air Support Element consists of:

(2) Air Support Control Officers.
(2) Air Support Net Operators.
    (a) TAR/HR Net Operator.
    (b) TAC/DAS Net Operator.

1202. SUMMARY/INDEX OF LIVE/SIMULATED EVENTS

1. **COMBAT CAPABLE STAGE**. This stage is accomplished by the Air Support Net Operator Training and Readiness Syllabus. Figure 12-1 lists the events completed during the POI at MCCES.

Table 12-1. Combat Capable Training List

EVENT	TASK	PAGE
SYS-100	Pass a practical application test on air support communications equipment.	12-18
SYS-101	Pass a practical application test on authentication, encryption, and decryption.	12-18
SYS-102	Pass a practical application test on the JTAR/ASR.	12-19
SYS-103	Pass a practical application test on plotting.	12-19
SYS-104	Pass a practical application test on the switchology of the AN/UYQ-3A.	12-20
SYS-105	Pass a practical application test on the switchology of the AN/TSQ-207 (High Mobility Downsized (HMD) DASC).	12-20
SYS-106	Pass a practical application test on CTAPS.	12-21
SYS-107	Pass a practical application test on the MAGTF C4I Software Baseline (MSBL).	12-21
SYS-108	Pass a practical application test on Initial Fire Support Automated System (IFSAS)/Advanced Field Artillery Tactical Data System (AFATDS).	12-21
SYS-109	Pass written tests encompassing lectures 1.01 through 5.01.	12-22
QUAL-192	Qualify as a Plotter.	12-22
QUAL-193	Qualify as a Tactical Air Request (TAR)/Helicopter Request (HR) Net Operator.	12-23
QUAL-194	Qualify as a Tactical Air Command (TAC)/Direct Air Support (DAS) Net Operator.	12-23
QUAL-195	Qualify as a Fire Support Coordination (FSC) Net Operator.	12-24
QUAL-196	Qualify as a CTAPS Operator.	12-24
QUAL-197	Qualify as a MSBL Operator.	12-25
QUAL-198	Qualify as a IFSAS/AFATDS Operator.	12-25

2. **COMBAT READY STAGE**. Table 12-2 contains a listing of the combat readiness training events and associated page numbers.

Table 12-2. Combat Readiness Training List

EVENT	TASK	PAGE
SYS-200	Pass a practical application test exhibiting knowledge of communications-electronics support equipment.	12-26
SYS-202	Authenticate, encrypt and decrypt text messages.	12-27

EVENT	TASK	PAGE
SYS-203	Function as a computer operator.	12-27
SYS-204	Read maps and plot symbology.	12-27
SYS-205	Conduct briefs.	12-28
SYS-209	Pass a written test of lectures A-1 through A-28 (exceptions: A-15, A-16 and A-17).	12-28
FAM-210	Tour the Tactical Air Command Center (TACC).	12-29
FAM-211	Tour the Tactical Air Operations Center (TAOC) and/or Early Warning/Control (EW/C).	12-29
FAM-212	Tour an Air Traffic Control facility.	12-29
FAM-213	Tour a LAAD Stinger Team (Manpad/Avenger) and Section Leader/Platoon Commander position.	12-30
FAM-214	Observe a Tactical Air Control Party (TACP).	12-30
FAM-215	Tour an operational Fire Support Coordination Center (FSCC).	12-30
NBC-220	Conduct DASC operations in a Nuclear, Biological, and Chemical (NBC) environment.	12-31
OPS-240	Employ voice radio telephone procedures.	12-31
OPS-242	Receive and process Air Requests and standard operational forms.	12-32
OPS-243	Maintain crew position log.	12-32

3. **COMBAT QUALIFICATION STAGE**. Table 12-3 contains a listing of the combat qualification training events and associated page numbers.

Table 12-3. Combat Qualification Training List

EVENT	TASK	PAGE
SYS-309	Pass a written test of lectures A-15 through A-17, B-01 through B-17 and B-23 through B-25.	12-33
OPS-330	Function as a MAGTF C4I Software Baseline (MSBL) Operator.	12-33
OPS-331	Function as an Initial Fire Support Automated System (IFSAS)/Advanced Field Artillery Tactical Data System (AFATDS) operator.	12-34
OPS-332	Function as a Contingency Theater Automated Planning System (CTAPS) Operator.	12-34
OPS-333	Function as a Fire Support Coordination net operator.	12-35
OPS-335	Function as a TAR/HR Net Operator.	12-35
OPS-337	Function as a Tactical Air Command/Direct Air Support Net Operator.	12-36
QUAL-390	Qualify as a ASNO.	12-36

4. **FULL-COMBAT QUALIFICATION STAGE**. Table 12-4 contains a listing of the full combat qualification training events and associated page numbers.

Table 12-4. Full Combat Qualification Training List

EVENT	TASK	PAGE
SYS-401	Pass a practical application test exhibiting knowledge of motor transport/utilities support equipment.	12-37
OPS-450	Perform as a net operator in a DASC(A).	12-38
OPS-460	Perform as a Net Operator on an Air Support Liaison Team.	12-38
OPS-470	Perform as a net operator of an Air Support Element (ASE) on a MEU.	12-38

5. **SPECIAL TRAINING REQUIREMENTS**. Table 12-5 contains a listing of the requirements, qualifications, and designation events and associated page numbers.

Table 12-5. Requirements, Qualifications and Designation Training List

EVENT	TASK	PAGE
RQD-680	Obtain Incidental Drivers License.	12-39
RQD-681	Obtain appropriate Generators License.	12-39
RQD-682	Pass Aviation Flight Physical.	12-40
RQD-683	Pass Aviation Flight Physiology.	12-40
RQD-684	Pass Aviation Swim Qualification.	12-40

6. **OPERATOR CORE SKILLS**. Core skills are depicted in the following matrix (table 12-6) and directly support the METL for each Unit. Core skills shall be a determining factor in developing T&R training requirements. Special skills and training requirements must receive appropriate prioritization and emphasis based on the training need, and the likelihood of those types of missions being assigned during operations.

Table 12-6. Core Skills

	METL								
	A	B	C	D	E	F	G	H	I
SYS-200				X	X	X	X		
SYS-202		X	X						
SYS-203		X							
SYS-204		X	X						
SYS-205	X					X			
SYS-209	X	X	X	X	X	X	X		
FAM-210	X	X	X						
FAM-211						X			
FAM-212						X			

	METL								
	A	B	C	D	E	F	G	H	I
FAM-213						X			
FAM-214	X	X	X			X			
FAM-215	X	X	X			X			
NBC-220									X
OPS-240	X	X	X	X	X	X	X	X	X
OPS-242		X							
OPS-243		X							
SYS-309	X	X	X	X	X		X	X	
OPS-330	X	X	X			X			
OPS-331			X						
OPS-332	X	X		X					
OPS-333	X	X	X	X	X			X	
OPS-335	X	X	X	X	X			X	
OPS-337	X	X		X	X			X	
QUAL-390	X	X	X	X	X	X	X	X	
SYS-401				X			X	X	
OPS-450		X		X	X				
OPS-470		X	X	X		X		X	
OPS-460		X	X	X		X			
RQD-680				X			X	X	
RQD-681				X			X		
RQD-682					X				
RQD-683					X				
RQD-684					X				

1203. UNIT TRAINING

1. The unit's training program emphasizes qualifications and the overall combat readiness of the unit. Individual training serves as the building block for overall unit readiness. However, unit training will never be compromised for the training of a select, few individuals. Squadron and battalion commanding officers will ensure that this training philosophy is implemented. Unit training must predominate, and squadrons must tailor their training plans to ensure unit combat readiness.

2. The training of Marines to perform as an integral aviation unit in combat lies at the heart of the T&R program. Unit readiness and individual readiness are directly related. Individual training and the mastery of individual core

skills serve as the building blocks for unit combat readiness. A Marine's ability to perform those critical skills required in combat is essential.

3. Commanders shall ensure that all tactical training is conducted to a MCCRES standard. The MCCRES, as outlined in MCO P3501.1, is the unit training standard, and all syllabus events shall be tailored to meet MCCRES requirements. Commanders at all levels are responsible for effective aviation training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be overemphasized.

4. Commanders must be cognizant of the numerous factors affecting unit training on a daily basis. Factors which all commanders must address include, but are not limited to:

a. **Efficiency**. Time and resources expended are measurements for training efficiency. Commanders must ensure that all training increases combat readiness. Unit personnel shall thoroughly plan and effectively execute training to maximize the return on their time and effort.

b. **Individual Differences**. Commanders must recognize the differences inherent in each individual and should mold flexible training programs to accommodate those differences.

c. **Decentralization of Training**. The lowest echelon possible shall be responsible for conducting training. Each senior level of command must monitor subordinate commands to ensure safe and efficient training requirements.

5. Commanders shall provide personnel the opportunities to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit.

6. **Risk Management**. Operational Risk Management (ORM) is a process to aid commanders in accomplishing their missions while protecting the force. Commanders, leaders, maintainers, planners and schedulers should integrate risk assessment in the decision making process and implement hazard controls to eliminate risk or reduce it to acceptable level.

7. **MACCS Integrated System Training**. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated airspace command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEX's should focus on the establishment of necessary communications and data links between MACCS agencies, and incorporate sufficient simulation and MSEL items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Information Link capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

1204. ASNO TRAINING PROGRESSION PHILOSOPHY

1. The initial step of the progression model addresses Core Competency training. This model streamlines the Air Support Operations Operator training

curricula, based on systematic, focused training which results in shorter time to qualification. Upon designation as an Air Support Operations Operator after nine weeks of instruction at MCCES, the focus is to become a qualified ASNO within two years, and a qualified CC after five years in the MOS. Core Competency is achieved by the successful completion of the 100-300 level syllabus.

2. The second step of the progression model addresses Core Plus training. This model focuses training on those special skills required once an Air Support Operations Operator has been designated a CC and is prepared for advanced training. Some syllabus items may be achieved prior to CC qualification. Core Plus training objectives are contained in the 400 level syllabus.

3. The 600 level syllabus is reserved for tracking those requirements, qualifications, and designations that have refly factors for proficiency yet do not have CRP credit.

1205. TRAINING PROGRESSION MODEL FOR ASNO

1. The Training Progression Model for the AIR SUPPORT NET OPERATOR is depicted in figure 14.1.

2. This model depicts the **logical progression of qualifications** within a unit. The base of each model contains those qualifications an individual reports to the unit with (accession qualifications) after completion of the MOS-qualifying school. The highest tier of the progression model will contain those qualifications held by only the most experienced personnel within a unit.

3. The Combat Capable tier (100 level) will in most cases be accomplished at the completion of initial MOS skills training. With successful completion of the combat capable tier, unit personnel are assigned basic MOS qualification and progress to the Combat Ready tier.

4. On the Combat Ready tier (200 level), qualifications that are normally made available to fairly inexperienced personnel will be delineated. This tier should take the individual who has completed initial MOS skills training and make him or her proficient in core competencies. With successful completion of the combat ready tier, unit personnel move to the Combat Qualification tier.

5. The Combat Qualification tier (300 level) will be that portion of the model that produces core competent combat leaders and crew members. The personnel that are being trained in the combat qualification tier are those Marines a commanding officer feels are capable of directing the actions of subordinates during wartime scenarios.

6. The Full-Combat Qualification tier (400 level) is reserved for large scale integrated missions and/or events having unique mission taskings. Personnel that complete this tier have achieved core-plus skills and are capable of the most demanding combat tasks. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical acumen commensurate with this status on a daily

basis, and assist the commanding officer with oversight of the unit training program.

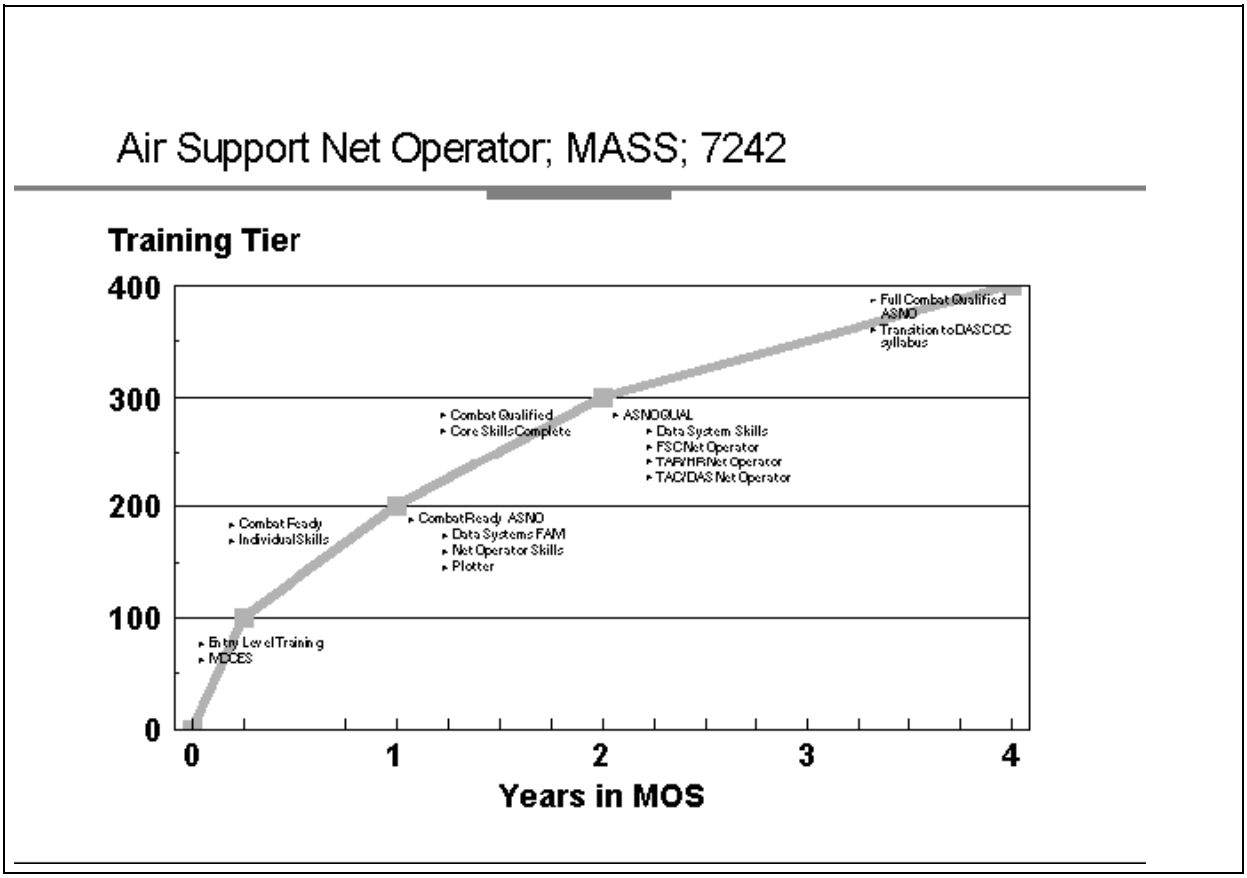


FIGURE 12.1 AIR SUPPORT NET OPERATOR TRAINING PROGRESSION MODEL

7. The Requirements, Qualifications and Designations section will track special skills (600). These skills are not prerequisite to combat qualification or the ability to function as combat leaders, but are those for which a certain number of trained individuals or crews must be maintained to accomplish special missions or tasks.

8. The unit's training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification of "combat ready" and "combat qualified" personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

1206. PROGRAMS OF INSTRUCTION (POI) FOR ASNO

1. **BASIC AIR SUPPORT NET OPERATOR**

WEEKS	COURSE/PHASE	ACTIVITY
9	AIR SUPPORT OPERATIONS	MCCES

OPERATORS COURSE (ASOOC)/
COMBAT CAPABLE

2. **TRANSITION AIR SUPPORT NET OPERATOR**

WEEKS	COURSE/PHASE	ACTIVITY
26	AIR SUPPORT NET OPERATOR (ASNO)/ COMBAT CAPABLE	MASS

3. **REFRESHER AIR SUPPORT NET OPERATOR**

WEEKS	COURSE/PHASE	ACTIVITY
10	AIR SUPPORT NET OPERATOR (ASNO)/ COMBAT QUALIFIED	MASS

4. **CONVERSION AIR SUPPORT NET OPERATOR**

WEEKS	COURSE/PHASE	ACTIVITY
4	AIR SUPPORT NET OPERATOR (ASNO)/ COMBAT QUALIFIED	MASS

1207. SPECIAL DESIGNATIONS

1. **Air Support Net Operator (ASNO) Qualification**. An Air Support Operations Operator (7242) is ASNO qualified after having completed the required events of the Combat Ready phase of the appropriate T&R syllabus. The Air Support Operations Operator shall be certified as an ASNO by a Combat Qualification DASC CC, DASC MEWTI or the MAWTS-1 DASC instructor/chief, and designated ASNO qualified by the unit commanding officer. The crew member shall have a letter in their MACCS Performance Record stating their qualifications.

WEEKS	COURSE/PHASE	ACTIVITY
104	ASNO/Combat Qualified	MASS

1210. GROUND/ACADEMIC TRAINING

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders are strongly encouraged to incorporate the lectures in table 12-7 into their training plans. Where indicated, standardized academic training materials exist and may be obtained from the activity listed as the sponsor.

Table 12-7. Recommended T&R Lectures

LECTURE CODE	LECTURE TITLE	SPONSOR
	ASNOC PROGRAM OF INSTRUCTION	
1.01	Marine Air Ground Task Force (MAGTF)	MCCES
1.02	Marine Division	MCCES

LECTURE CODE	LECTURE TITLE	SPONSOR
1.03	Marine Aviation	MCCES
1.04	Unmanned Aerial Vehicles (UAV)	MCCES
1.05	Aircraft Capabilities	MCCES
1.06	Aviation Ordnance	MCCES
1.07	Supporting Arms	MCCES
1.08	Marine Air Command and Control System (MACCS)	MCCES
1.09	Tactical Air Command Center (TACC)	MCCES
1.10	Direct Air Support Center (DASC)	MCCES
1.11	Fire Support Coordination Center (FSCC)	MCCES
1.12	Terminal Controllers/DASC Extension	MCCES
1.13	Fundamentals of Antiair Warfare	MCCES
1.14	Low Altitude Air Defense (LAAD) Battalion	MCCES
1.15	Amphibious Operations	MCCES
1.16	Command and Control of Amphibious Operations	MCCES
1.17	Marine Air Support Squadron (MASS)	MCCES
2.01	Introduction to Communications	MCCES
2.02	Radio/Telephone Procedures	MCCES
2.03	Communication Nets	MCCES
2.04	Introduction to Electronic Warfare (EW)	MCCES
2.05	Pacific Numeral Cypher/Authentication System	MCCES
2.06	IFSAS Setup	MCCES
2.07	IFSAS Initialization	MCCES
2.08	Introduction to CTAPS	MCCES
2.09	MAGTF C4I Software Baseline (MSBL)	MCCES
2.1	Security of Classified Information	MCCES
3.01	Joint Tactical Airstrike Request (JTAR)	MCCES
3.02	Assault Support Request (ASR)	MCCES
3.03	Map Reading	MCCES
3.04	Plotting Symbology	MCCES
3.05	Marine Expeditionary Unit (MEU)	MCCES
3.06	CSAR/TRAP	MCCES
3.07	Procedural Control of Aircraft	MCCES
3.08	Surface-to-Air Threat to the MAGTF	MCCES
3.09	Threat Aircraft	MCCES
3.1	Operations Documents	MCCES
3.11	US Message Text Format (USMTF)	MCCES
3.12	Internal/External Information Flow	MCCES
3.13	Navigational Aids	MCCES
3.14	Logbooks	MCCES
3.15	Communications Supporting Documents	MCCES

LECTURE CODE	LECTURE TITLE	SPONSOR
3.16	Theater Air Ground System (TAGS)	MCCES
3.17	Training and Readiness (T&R)	MCCES
3.18	Air Tasking Order Confirmation (ATOCONF)	MCCES
4.01	Operation of the AN/TSQ-207 (HMD DASC)	MCCES
4.02	Air Support Communication Equipment	MCCES
4.03	Tactical Employment of the DASC	MCCES
4.04	Vehicles/Support Equipment	MCCES
4.05	Operation of the AN/UYQ-3A	MCCES
5.01	DASC Simulation	MCCES

Lecture Code	Lecture Title	Sponsor
	Proposed 200 Level: Combat Ready Training	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES
A-03 A-04 A-05 A-06 A-07 A-08	The Six Functions of Marine Aviation • Control of Aircraft & Missiles • Offensive Air Support • Assault Support • Electronic Warfare • Aerial Reconnaissance • Anti-Air Warfare	MAWTS-1 MAWTS-1 MAWTS-1 MAWTS-1 MAWTS-1 MAWTS-1
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	MCCES
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	MAWTS-1
A-14	MACCS Communications	MAWTS-1
A-18	Encryption & Authentication Procedures	MCCES
A-19	COMSEC & Crypto handling	MCCES
A-20	MAGTF C4I Software Baseline (MSBL) Overview	MCCES
a-21	DASC crew Brief Responsibilities	MAWTS-1
A-22	DASC Displacement Operations	MCCES
	Proposed 300 Level: Combat Qualified Training	
A-15	CTAPS Overview	MAWTS-1
A-16	Data Link Symbology	MCCES
A-17	Manual Crosstell procedures	MCCES
B-01	Other Air Threats	MAWTS-1
B-02	Fixed Wing Threat	MAWTS-1
B-03	Rotary Wing Threat	MAWTS-1
B-04	REC Threat	MAWTS-1

Lecture Code	Lecture Title	Sponsor
B-05	Ground Threat	MAWTS-1
B-06	AOR Specific Threat & OP PLANS	Local MACG
	MACCS Agencies	
B-07	• TACC	MAWTS-1
B-08	• TAOC	MAWTS-1
B-10	• ATC Detachment	MAWTS-1
B-11	• LAAD Bn	MAWTS-1
B-12	• Air Defense Detachment	MAWTS-1
B-13	• MWCS	MAWTS-1

(*) The lecture code is standardized throughout all MACCS related syllabi, and are used to link the ATRIMS software to a specific T&R event within this syllabus. Lecture Codes may not be listed sequentially.

2. External academic courses of instruction required to complete the syllabus are listed below.

COURSE	ACTIVITY
None	None

1211. TRAINING REFERENCES

1. The following training references shall be utilized to ensure safe and standardized training procedures, performance steps, grading criteria, and equipment operation:

TITLE	
MCWP 3-2	Aviation Operations
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air-Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook
MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.11	LAAD Gunner's Handbook
MCWP 3-25.12	MWCS Handbook
FM 11-1	Nuclear, Biological and Chemical Ops (NBC)
FM 100-42	USAF/USA Airspace Management in the Area of Operations
FMFM 3-30	Communications
FMFM 6-18	Techniques and Procedures for Fire Support Coordination
OPNAVINST 3710	NATOPS Manual
TM-11240 Series	Motor Transport Technical Characteristics
TM-11275 Series	Principle Technical Characteristics of Engineer Equipment
TM-2000 Series	USMC Communications-Electronics Equipment

MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
JtDivO P3120.23	FSC SOP
ACP-125	Allied Communication Publication
DASC PCL	DASC Pocket Checklist

1220. LIVE/SIMULATOR EVENT TRAINING: ASNO

1. **COMBAT CAPABLE STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
ASNO MCCES			60.00%

2. **COMBAT READY STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
AIR SUPPORT NET OPERATOR TRAINING	16	40	15.00%
COMBAT READY TOTALS:	16	40	15.00%

3. **COMBAT QUALIFICATION STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
AIR SUPPORT NET OPERATOR TRAINING	8	57	20.00%
COMBAT QUALIFICATION TOTALS:	8	57	20.00%

4. **FULL COMBAT QUALIFICATION STAGE OF TRAINING**

STAGE	EVENTS	HOURS	PERCENT
FULL COMBAT QUALIFICATION	4		5.00%
FULL COMBAT QUALIFICATION TOTALS:	4		5.00%
4. **REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS**			
REQUIREMENTS, QUALIFICATIONS AND DESIGNATIONS	5	75	0.00%
REQUIREMENTS, QUALIFICATIONS AND DESIGNATIONS	5	75	0.00%

1230. LIVE/SIMULATOR EVENT PERFORMANCE REQUIREMENTS

1. **General**. The majority of the Air Support Net Operator syllabus is ground training which requires in-depth integration within the MACCS. Likewise, development of MAGTF training involving extensive integration with applicable elements of the MAGTF is mandatory in the development of a fully combat qualified Air Support Net Operator.

a. **Live Training**. Training event condition codes listed as **L** (live), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted without the aid of simulator devices. Training not conducted in the live training environment shall be replaced with simulation where applicable as indicated in the condition code.

b. **Simulator Training**. Training event condition codes listed as **S** (simulator), **L/S** (live preferred/simulator optional), and **S/L** (simulator preferred/live optional) in this syllabus designate training to be conducted during DASC Simulations. Training not conducted during DASC Simulations shall be replaced with live training where applicable as indicated in the condition code.

3. **Minimum Performance Time for Syllabus "Write-Off"/Designations**. Personnel may receive credit for successful completion of any syllabus requirement (except qualifications) upon either a written, oral, or practical demonstration of proficiency, at the commanding officer's discretion. Completion of 70 percent of any syllabus requirement (except qualifications) may be "written-off" as complete at the discretion of the designated evaluator. Qualifications require a completed performance evaluation, and the designation signed by the commanding officer.

4. **Evaluation of Training**. Evaluation of those portions of the syllabus which are academic in nature will be conducted by either written/oral examination or a combination of the two means. Operational and system related subjects will be evaluated by practical application means whenever possible. Performance evaluation to qualify for mission qualifications and designations will be conducted per T&R Manual, Volume 1, and the standardized evaluation forms located in the appendix to this syllabus.

1231. COMPONENTS OF A T&R EVENT

1. **General**. An event contained within a T&R manual is an Individual or collective training standard and contains seven or eight components, dependent on the tier in which they are contained:

1/	2/	3/	4/	5/	6/
SAM-XXX	**0.5**	**T,C,R,**	**E**	**EQUIP**	**L/S (NS)**

TASK: The title of a unit of work which needs to be done in the performance of a Marine's duties. It is a clearly stated performance-oriented action requiring learned skills and knowledge, i.e. Engage a rotary winged aircraft

CONDITION(S): The condition(s) set for the real-world or combat circumstances in which the tasks are to be performed. They indicate what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this should be stated.

STANDARD(S): The performance standard indicates the basis for judging the effectiveness of the performance. It consists of a carefully worded statement which identifies the proficiency level expected when the task is performed. It is not guidance, it is inviolate. Performance standards are specified in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc.

PERFORMANCE STEP(S): *Listed for 100 level T&R events only.* Performance steps are the actions or decisions required to fulfill proficiency established by the standard. The major performance steps which are required to perform the task to proficiency are listed in the order of performance. Minor steps are not listed.

PREREQUISITE(S): Provides a listing of academic training or other T&R events which must be completed prior to satisfying the task.

REFERENCE(S): Listing of doctrinal or reference publications which may assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion.

ORDNANCE: A listing of Ordnance types and quantities required to satisfy the Task.

EXTERNAL SUPPORT REQUIREMENT(S): A listing or description of the external support requirements which may be required to satisfy completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

NOTES:

1/ Events are coded per Appendix B of T&R Manual Vol 1.

2/ Projected Event Duration is furnished as a planning tool.

3/ Denotes the applicable Program of Instruction (Basic POI is understood).

4/ An "E" indicates an Evaluated event.

5/ The equipment or activity subcategory is listed.

6/ Condition Code: **L** = live Training; **S** = simulator training; **L/S** = live preferred/simulator optional; **S/L** = simulator preferred/live optional; **N** = Night; **NS** = Night Vision Device; Where contained within **( )** denotes optional conditions.

1232. COMBAT CAPABLE TRAINING

1. COMBAT CAPABLE

a. **Purpose**. To develop the basic skills necessary for a 7242 to be qualified as a basic Air Support Net Operator. This training will be accomplished by the program of instruction being utilized by Marine Corps Communication-Electronics School (MCCES), 29 Palms, CA. Upon graduation from this course, the operator is sixty percent (60%) trained and Combat Capable.

b. **General**

(1) **Administrative Notes**. Upon completion of this phase of training, an operator will be designated a 7242.

(2) **Prerequisites**. Private through Sergeant, Secret Clearance, normal color perception and 100 GT.

c. **Crew Requirements**. Student DASC crew.

d. **Academic Training**. The lectures developed to reinforce this stage of training are lectures 1.01 through 4.05, as delineated in paragraph 1410 of this manual.

e. **Live and Simulator Event Training (17 Events, 23 Hours)**

SYS-100 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on air support communications equipment.

CONDITION(S): In the classroom and without the aid of reference.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S): Identify the following:

(1) Nomenclature.
(2) Frequency spectrum.
(3) Range.
(4) Power requirements.
(5) Associated cryptological equipment.
(6) Antenna configurations.

PREREQUISITE(S): Lecture 4.02.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-101 **1.0** **E** **None** **L**

TASK: Pass a practical application test on authentication, encryption, and decryption.

CONDITION(S): In the classroom and without the aid of reference.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Correctly encrypt information.
(2) Correctly decrypt information.
(3) Correctly authenticate.

PREREQUISITE(S): Lecture 2.05.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-102 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on the JTAR/ASR.

CONDITION(S): In the classroom and without the aid of reference.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Demonstrate proficiency in receiving and processing JTARs, including assigning appropriate request number and completing the form.
(2) Demonstrate proficiency in receiving and processing ASRs, including assigning appropriate request number and completing the form.
(3) Demonstrate proficiency in receiving and processing MEDEVACs, including assigning appropriate request number and completing the form.

PREREQUISITE(S): Lectures 3.01 and 3.02

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-103 **1.0** **T,C** **E** **None** **L**

TASK: Pass a practical application test on plotting.

CONDITION(S): In the classroom with a map.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Find a four digit UTM coordinate.
(2) Find a six digit UTM coordinate.
(3) Find an eight digit UTM coordinate.
(4) Locate a Latitude/Longitude coordinate.
(5) Plot friendly/enemy units using appropriate symbols.
(6) Plot DASC specific symbols (JTAR, ASR, etc.) without the aid of reference.
(7) Complete and understand mission data on status boards (TAD/HD).

PREREQUISITE(S): Lectures 3.03 and 3.04.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-104 **1.0** __ **E** **None** **L**

TASK: Pass a practical application test on the switchology of the AN/UYQ-3A.

CONDITION(S): In a AN/UYQ-3A and without the aid of reference.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Monitor a radio net.
(2) Transmit on a radio net.
(3) Answer a telephone call.
(4) Place a telephone call.
(5) Utilize intercommunications system.
(6) Enable/disable cryptological equipment.
(7) Alter assigned frequencies utilizing resets/remote/radio face.

PREREQUISITE(S): Lecture 4.05.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-105 **1.0** __ **E** **None** **L**

TASK: Pass a practical application test on the switchology of the AN/TSQ-207 (High Mobility Downsized (HMD) DASC).

CONDITION(S): In a AN/TSQ-207 and without the aid of reference.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Monitor a radio net.
(2) Transmit on a radio net.
(3) Answer a telephone call.
(4) Place a telephone call.
(5) Utilize intercommunications system.
(6) Enable/disable cryptological equipment.

PREREQUISITE(S): Lecture 4.01.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-106 **1.0** __ **E** **None** **L**

TASK: Pass a practical application test on CTAPS.

CONDITION(S): Utilizing a CTAPS terminal.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Manipulate right mouse button functions to include lock screen, floppy disk utility and talk utility.
(2) Send/receive e-mail using all applications.
(3) Import/export data.
(4) Access, manipulate, and print an Air Tasking Order (ATO).

PREREQUISITE(S): Lecture 2.08.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-107 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on the MAGTF C4I Software Baseline (MSBL).

CONDITION(S): Utilizing a MSBL terminal.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Apply power, login.
(2) Use software applications: map functions, track functions, overlays.
(3) Send and receive operator notes.
(4) Receive, parse, and print an Air Tasking Order (ATO).
(5) Execute manual update of the ATO.

PREREQUISITE(S): Lecture 2.09.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-108 **1.0** ___ **E** **None** **L**

TASK: Pass a practical application test on Initial Fire Support Automated System (IFSAS)/Advanced Field Artillery Tactical Data System (AFATDS).

CONDITION(S): Utilizing an IFSAS/AFATDS.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Apply power, and login.
(2) Perform setup initialization: Install map mod, map center, printer, alarms and set time.
(3) Setup communications: Owner ID, subscriber data and communication check.
(4) Send/receive plain text messages.
(5) Send/receive Battlefield Geometry.
(6) Process data techniques.
(7) Artillery firing update (AFU).

PREREQUISITE(S): Lectures 2.06 and 2.07.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-109 7.0 __ E None L

TASK: Pass written tests encompassing lectures 1.01 through 5.01.

CONDITION(S): Garrison without the aid of references.

STANDARD(S): Pass the test with a score of 70% or greater.

PREREQUISITE(S): Lectures 1.01 through 5.01.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

QUAL-192 1.0 ___ E None L

TASK: Qualify as a Plotter.

CONDITION(S): Classroom.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEPS:

(1) Find a four digit UTM coordinate.
(2) Find a six digit UTM coordinate.
(3) Find an eight digit UTM coordinate.
(4) Locate a Latitude/Longitude coordinate.
(5) Plot friendly/enemy units using appropriate symbols.

(6) Plot DASC specific symbols (JTAR, ASR, etc.) without the aid of reference.
(7) Complete and understand mission data on status boards (TAD/HD).

PREREQUISITE(S): Lectures 3.03 and 3.04.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

QUAL-193 **1.0** ___ **E** **None** **L**

TASK: Qualify as a Tactical Air Request (TAR)/Helicopter Request (HR) Net Operator.

CONDITION(S): Classroom.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Receive and process JTARs, assign request numbers and complete forms.
(2) Receive and process ASRs, assign request numbers and complete forms.

PREREQUISITE(S): Lectures 3.01 and 3.02

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

QUAL-194 **1.0** ___ **E** **None** **L**

TASK: Qualify as a Tactical Air Command (TAC)/Direct Air Support (DAS) Net Operator.

CONDITION(S): Classroom.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Read and understand USMTF ATO.
(2) Receive changes to Airspace Control Order, ATO and Special Instructions (SPINS).
(3) Receive and pass friendly information.
(4) Receive and pass enemy intelligence.
(5) Receive and pass weather updates.
(6) Receive Air Defense Warning Condition/Weapons Control Status.
(7) Maintain crew position log.
(8) Perform Pre-brief, Crew Brief, and Post Watch brief.

(9) Pass Inflight Reports.

PREREQUISITE(S): Lectures 3.01 and 3.02.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

QUAL-195 **1.0** ___ **E** **None** **L**

TASK: Qualify as a Fire Support Coordination (FSC) Net Operator.

CONDITION(S): Classroom.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Receive and pass friendly information.
(2) Receive and pass enemy intelligence.
(3) Receive and pass artillery positions, gun firing lines and status.
(4) Changes to Fire Support Coordination measures.
(5) Receive and pass changes to ACO, ATO, and SPINS.
(6) Receive and pass Inflight Reports.
(7) Maintain a crew position log.
(8) Perform Pre-brief, Crew Change Brief and Post Watch brief.

PREREQUISITE(S): Lecture 1.11.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

QUAL-196 **1.0** ___ **E** **None** **L**

TASK: Qualify as a CTAPS Operator.

CONDITION(S): Classroom.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Be able to apply power and log in.
(2) Manipulate right button functions to include lock screen, floppy disk utility and talk utility.
(3) Send/receive e-mail using all applications.
(4) Import/export data.
(5) Access, manipulate, and print an Air Tasking Order (ATO).

PREREQUISITE(S): Lecture 2.08.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

QUAL-197 **1.0** ___ **E** **None** **L**

TASK: Qualify as a MSBL Operator.

CONDITION(S): Classroom.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Apply power and login.
(2) Use software applications: map functions, track functions, overlays.
(3) Send and receive operator notes.
(4) Receive, parse, and print an Air Tasking Order (ATO).
(5) Execute manual update of the ATO.

PREREQUISITE(S): Lecture 2.09.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

QUAL-198 **1.0** ___ **E** **None** **L**

TASK: Qualify as a IFSAS/AFATDS Operator.

CONDITION(S): Utilizing an IFSAS/AFATDS.

STANDARD(S): Pass the test with a score of 70% or greater.

PERFORMANCE STEP(S):

(1) Apply power, and log in.
(2) Perform setup initialization: Install map mod, map center, printer, alarms and set time.
(3) Setup communications: Owner ID, subscriber data and communication check.
(4) Send/receive plain text messages.
(5) Send/receive Battlefield Geometry.
(6) Process data techniques.
(7) Artillery firing update (AFU).

PREREQUISITE(S): Lectures 2.06 and 2.07.

REFERENCE(S). See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

1233. COMBAT READY TRAINING

1. Combat Ready Training

a. **Purpose**. To develop proficiency in air support operations. Upon completion of this portion of the training syllabus, the operator is seventy-five (75%) percent trained and Combat Ready.

b. **General**

(1) **Administrative Notes**. Upon completion of this phase of training, a 7242 will be a combat ready Air support net operator in the DASC.

(2) **Prerequisite**.

(a) The following MCI courses shall be completed prior to completing this stage of training:

NUMBER	MCI COURSE
25.15	Antenna Construction and Propagation of Radio Waves
25.20	Communications for the FMF Marine
25.25	Communications Security
25.30	VHF Field Radio Equipment
25.32	HF/UHF Field Radio Equipment

c. **Crew Requirements**. Core competent DASC crew.

d. **Academic Training**. Lecture series 200 as outlined in para. 1410.

e. **Live and Simulator Event Training (16 Events, 40 Hours)**

SYS-200 1.0 T,C,R MWCS L/S

TASK: **Pass a practical application test exhibiting knowledge of communications-electronics support equipment.**

CONDITION(S): Garrison or field without the aid of references.

STANDARD(S): The Marine will pass a practical application test with a score of 80% or greater. The test will include nomenclature, frequency spectrum, range, power requirements, antenna configurations, associated cryptological equipment, owning unit, and its use by the DASC.

PREREQUISITE(S): None.

REFERENCE(S): TM 2000 series and the DASC Pocket Checklist.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MWCS assets as appropriate to the mission of the DASC. Test provided by MCCES.

SYS-202 1.0 T E EQUIP L/S

TASK: Authenticate, encrypt and decrypt text messages.

CONDITION(S): Provided the appropriate documents.

STANDARD(S): Master with 100% accuracy the ability:

(1) To authenticate ten other agencies/stations and be authenticated.
(2) To encrypt/decrypt five multi-word text messages.

PREREQUISITE(S): None.

REFERENCE(S): Use IAW local COMSEC instructions.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-203 1.0 T PC's L/S

TASK: Operate a computer.

CONDITION(S): Garrison or field.

STANDARD(S): Demonstrate basic computer skills to include but not limited to the following:

(1) Demonstrate proficiency using a PC connected to a network (Siprnet, Niprnet, Internet).
(2) Basic setup Cabling, apply power, login.
(3) Software applications, send/receive e-mail.
(4) Import/export data, edit data.

PREREQUISITE(S): None.

REFERENCE(S): Software manuals.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-204 1.0 T E Maps L/S

TASK: Read a map and plot symbology.

CONDITION(S): Garrison or field.

STANDARD(S): Given access to a variety of maps and symbology references, for a minimum of five times each, master with 100% accuracy the ability to:

(1) Find a four digit UTM coordinate within 15 seconds.
(2) Find a six digit UTM coordinate within 25 seconds.
(3) Find an eight digit UTM coordinate within 35 seconds.
(4) Locate a Lat/Long coordinate within 30 seconds.
(5) Plot friendly/enemy units using appropriate symbols.
(6) Plot DASC specific symbols (JTAR, ASR, etc.) without the aid of reference.
(7) Complete and understand mission data on status boards (TAD/HD).

PREREQUISITE(S): None.

REFERENCE(S): DASC Pocket Checklist.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-205 **1.0** **T** **E** **None** **L/S**

TASK: Conduct briefs.

CONDITION(S): Given a scenario, and formats published in MCWP 3-25.5.

STANDARD(S): Conduct effectively at least one of each of the following crew briefs:

(1) Pre-watch brief.
(2) Crew brief.
(3) Post-watch debrief.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25.5

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

SYS-209 **1.0** **T,R** **E** **None** **L**

TASK: Pass a written test of lectures A-1 through A-28 (exceptions: A-15, A-16 and A-17).

CONDITION(S): Garrison without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PREREQUISITE(S): Lectures A-1 through A-28 (exceptions: A-15, A-16 and A-17).

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Written test provided by MCCES.

FAM-210 **1.0** **T** __ **TACC** **L/S**

TASK: Tour the Tactical Air Command Center (TACC).

CONDITION(S): Garrison or field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of this agency and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.4.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): TACC.

FAM-211 **1.0** **T** __ **TAOC/ EW/C** **L/S**

TASK: Tour the Tactical Air Operations Center (TAOC) and/or Early Warning/Control (EW/C).

CONDITION(S): Garrison or field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of these agencies and their relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.7.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): TAOC/EW/C.

FAM-212 **1.0** **T** __ **ATC** **L/S**

TASK: Tour an Air Traffic Control facility.

CONDITION(S): Garrison or field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of ATC and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.8.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): ATC Det/MMT.

FAM-213 **1.0** **T** __ **LAAD BN** **L/S**

TASK: Tour a LAAD Stinger Team (Manpad/Avenger) and Section Leader/Platoon Commander position.

CONDITION(S): Garrison or field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of LAAD and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25, MCWP 3-25.10, and MCWP 3-25.11.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Stinger Team.

FAM-214 **1.0** **T** __ **TACP** **L/S**

TASK: Observe a Tactical Air Control Party (TACP).

CONDITION(S): Garrison or field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of a TACP and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-2.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): TACP.

FAM-215 **1.0** **T** __ **FSCC** **L/S**

TASK: Tour an operational Fire Support Coordination Center (FSCC).

CONDITION(S): Garrison or field.

STANDARD(S): The Marine will have an understanding of the role, function, and capabilities of a FSCC and its relationship with the DASC.

PREREQUISITE(S): None.

REFERENCE(S): FMFM 6-18 and Joint Division Order P3120.23.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): FSCC.

NBC-220 4.0 T,C __ DASC S/L

TASK: Conduct DASC operations in a Nuclear, Biological, and Chemical (NBC) environment.

CONDITION(S): Garrison or field in MOPP-IV.

STANDARD(S): Operate a radio net for a minimum of four hours.

PREREQUISITE(S): None.

REFERENCE(S): FMFM 11-1 and MCCRES.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-240 8.0 T E DASC L/S

TASK: Employ voice radio telephone procedures.

CONDITION(S): Garrison or field.

STANDARD(S): When provided with a radio, callsign list, frequency list and appropriate forms demonstrate proficiency sending/receiving a minimum 20 items of information per hour for an 8 hour period to include a minimum of 4 hours processing requests (JTAR, ASR, MedEvac) at a minimum rate of 7 per hour to include but not limited to the following items:

(1) Receive/pass an equipment status report.
(2) Receive weather.
(3) Receive/pass Air Defense/weapons condition.
(4) Receive aircraft status report.
(5) Receive/pass situation updates.
(6) Receive/pass aircraft status to/from other MACCS agencies.
(7) Receive ATO changes.
(8) Receive/pass JTARS's, ASR's, mission assignments, etc.
(9) Receive/pass Intel and fire Support coordination measure updates.
(10) Receive/pass CAS briefs.
(11) Receive/pass UAV control/deconfliction info.
(12) Use prowords.
(13) Keep transmissions as short as possible.
(14) Use appropriate logs and forms.
(15) Employ preventive ECCM techniques.
(16) Use authentication/encryption procedures.

PREREQUISITE(S): None.

REFERENCE(S): ACP-125, FMFM 3-30, MCCRES.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-242 8.0 T ___ DASC L/S

TASK: Receive and process Air Requests and standard operational forms.

CONDITION(S): Garrison or field.

STANDARD(S): When provided the appropriate forms and local SOP, demonstrate proficiency in receiving and processing air request forms including but not limited to the following:

(1) JTAR - Assign appropriate request number and complete the form.
(2) ASR - Assign appropriate request number and complete the form.

PREREQUISITE(S): None.

REFERENCE(S): DASC SOP, MCWP 3-25, DASC Pocket Checklist.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-243 8.0 T ___ EQUIP L/S

TASK: Maintain crew position log.

CONDITION(S): Garrison or field.

STANDARD(S): When provided an assigned station on a radio net, a blank log book and local SOP, the log should show a complete and continuous record of all transmitted and received traffic which occur, including time of opening and closing of the station, causes of delays on the circuit, frequency adjustments and changes and unusual occurrences such as procedure and security violations.

PREREQUISITE(S): None.

REFERENCE(S): DASC SOP, MCWP 3-25

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

1234. COMBAT QUALIFICATION TRAINING

1. **Combat Qualification Training**

a. **Purpose**. To develop advanced proficiency in air support operations. Upon completion of this portion of the training syllabus, an Air Support Net Operator is ninety-five percent (95%) trained and Combat Qualified.

b. **General**

(1) **Administrative Notes**. Upon completion of this phase of training, an Air Support Net Operator will be ASNO qualified in the DASC.

(2) **Prerequisite.** None.

(3) **Refresher Training**. Refresher training is required once a qualified Air Support Net Operator has been absent from a 72XX billet for 16 months or longer. Combat Qualified individuals will complete "R" coded events in the 300 level syllabus.

c. **Crew Requirements**. Core competent DASC crew.

d. **Academic Training**. The lectures developed to reinforce this stage of training are lectures A-16, A-17, and B-01 through B-26 (exceptions: B-09 and B-22), as delineated in paragraph 1410 of this manual.

e. **Live and Simulator Event Training (8 Events, 57 Hours)**

SYS-309 1.0 T,R __ None L

TASK: Pass a written test of lectures A-15 through A-17, B-01 through B-17 and B-23 through B-25.

CONDITION(S): Garrison without the aid of references.

STANDARD(S): Pass the test with a score of 80% or greater.

PREREQUISITE(S): SYS-209.

REFERENCE(S): See references for each individual lecture.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Written test provided by MAWTS-1.

OPS-330 8.0 T,C __ MSBL L/S

TASK: Function as a MAGTF C4I Software Baseline (MSBL) Operator.

CONDITION(S): Garrison or field.

STANDARD(S): Demonstrate proficiency using the MSBL System or current equivalent system, to include, but not limited to, the following:

(1) Install cabling, printer, apply power and login.
(2) Use software applications: map functions, track functions, overlays.
(3) Send and receive operator notes.

(4) Receive, parse, and print an Air Tasking Order (ATO).
(5) Execute manual update of the ATO.

PREREQUISITE(S): SYS-203.

REFERENCE(S): Software manuals.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-331 8.0 T,C LCU L/S

TASK: Function as an Initial Fire Support Automated System (IFSAS)/Advanced Field Artillery Tactical Data System (AFATDS) operator.

CONDITION(S): Garrison or field.

STANDARD(S): Demonstrate proficiency using the IFSAS software to include, but not limited to, the following:

(1) Basic setup to include: Cabling, connections, radios, insert hard drive and apply power.
(2) Setup initialization: Install map mod, map center, printer, alarms and set time.
(3) Setup communications: Owner ID, subscriber data and Communication check.
(4) Send/receive plain text messages.
(5) Send/receive Battlefield Geometry.
(6) Process data techniques.
(7) Artillery firing update (AFU).

PREREQUISITE(S): SYS-203.

REFERENCE(S): Software manuals.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-332 8.0 T,C CTAPS L/S

TASK: Function as a Contingency Theater Automated Planning System (CTAPS) Operator.

CONDITION(S): Garrison or field.

STANDARD(S): Demonstrate proficiency using the CTAPS System or current equivalent system, to include, but not limited to, the following:

(1) Install hard drive, printer and cabling.
(2) Be able to apply power and login.
(3) Manipulate right button functions to include: lock screen, floppy disk utility and talk utility.
(4) Send/receive e-mail using all applications.
(5) Import/export data.

PREREQUISITE(S): SYS-203.

REFERENCE(S): Software manuals.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-333 8.0 T,C E DASC L/S

TASK: Function as a Fire Support Coordination net operator.

CONDITION(S): Garrison or field.

STANDARD(S): Process at a minimum of 10 items of information per hour for an 8 hour period:

(1) Pass friendly information.
(2) Pass intelligence.
(3) Receive Artillery positions, gun firing lines and status.
(4) Changes to Fire Support Coordination measures.
(5) Pass/receive changes to ATO.
(6) Pass/receive mission status.
(7) Maintain a crew position log.
(8) Perform Pre-brief, crew change brief and Post Watch brief.

PREREQUISITE(S): SYS-201, 202, 204, OPS-240, 241, 242.

REFERENCE(S): ACP-125, FMFM 3-30.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-335 8.0 T,C E NONE L/S

TASK: Function as a TAR/HR Net Operator.

CONDITION(S): Garrison or field.

STANDARD(S): Processing at a minimum 7 requests per hour for an 8 hour period properly receive, record and process air requests:

(1) Be able to accomplish a Pre crew brief, Crew change brief and post crew brief.
(2) Maintain crew position log.
(3) Receive BDA's.
(4) Pass mission data.
(5) Authenticate/Encrypt/Decrypt.

PREREQUISITE(S): SYS-201, 202, 204, OPS-240, 241, 242.

REFERENCE(S): ACP-125, FMFM 3-30.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

OPS-337 8.0 T,C E DASC L/S

TASK: Function as a Tactical Air Command/Direct Air Support Net Operator.

CONDITION(S): Garrison or field.

STANDARD(S): Process at a minimum 10 items of information per hour for an 8 hour period:

(1) Read and understand USMTF ATO.
(2) Receive changes to ATO/Frag/SPINS.
(3) Pass friendly information.
(4) Pass intelligence.
(5) Receive and pass weather updates.
(6) Receive Air Defense Warning Condition/Weapons Control Status.
(7) Maintain crew position log.
(8) Perform Pre-brief, crew change brief and Post Watch brief.
(9) Pass BDA.

PREREQUISITE(S): SYS-201, 202, 204, OPS-240, 241, 242.

REFERENCE(S): ACP-125, FMFM 3-30.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

QUAL-390 8.0 T,R E DASC L/S

TASK: Qualify as a Air Support Net Operator (ASNO).

CONDITION(S): Garrison or field.

STANDARD(S): When provided with a radio, callsign list, frequency list and appropriate forms demonstrate proficiency sending/receiving a minimum 10 items of information per hour for an 8 hour period to include a minimum of 4 hours processing requests (JTAR, ASR, MedEvac) at a minimum rate of 7 per hour to include but not limited to the following items:

(1) Receive/pass an equipment status report.
(2) Receive weather.
(3) Receive/pass Air Defense/weapons condition.
(4) Receive aircraft status report.

(5) Receive/pass situation updates.
(6) Receive/pass aircraft status to/from other MACCS agencies.
(7) Receive ATO changes.
(8) Receive/pass JTARS's, ASR's, mission assignments, etc.
(9) Receive/pass Intel and fire Support coordination measure updates.
(10) Receive/pass CAS briefs.
(11) Receive/pass UAV control/deconfliction info.
(12) Use prowords.
(13) Keep transmissions as short as possible.
(14) Use appropriate logs and forms.
(15) Employ Electronic Protection (EP) techniques.
(16) Use authentication/encryption procedures.

PREREQUISITE(S): NBC-220, OPS-333-335 (Recommend OPS-330-332).

REFERENCE(S): None.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): None.

1235. FULL COMBAT QUALIFICATION TRAINING

1. FULL COMBAT QUALIFICATION

a. **Purpose**. To develop comprehensive training in MACCS and MAGTF interagency operations. Upon completion of this portion of the training syllabus, the Air Support Net Operator is one hundred percent (100%) trained.

b. **General**

(1) **Administrative Notes**. Upon completion of this phase of training, an Air Support Net Operator will have the skills to plan and execute advanced DASC operations in a joint and/or combined environment.

(2) **Prerequisite(s)**. Prerequisites are listed in each syllabus event.

c. **Crew Requirements**. None.

d. **Live and Simulator Event Training (4 Events, 21 Hours and 4 Months)**

SYS-401 **1.0** **T,C,R** **MASS** **L/S**

TASK: Pass a practical application test exhibiting knowledge of motor transport/utilities support equipment.

CONDITION(S): Garrison or field provided the appropriate motor transport/utilitites equipment.

STANDARD(S): The Marine will pass a practical application test with a score of 80% or greater. The test will include nomenclature, power capabilities, hazardous material handling, environmental control unit configurations, and their relationship to specific DASC configurations.

PERFORMANCE STEP(S): None.

PREREQUISITE(S): None.

REFERENCE(S): TM-11240 series, TM-11275 series, and the DASC Pocket Checklist.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Test provided by MCCES.

OPS-450 4.0 T,C __ DASC L

TASK: Perform as a net operator in a DASC(A).

CONDITION(S): Field.

STANDARD(S): Demonstrate abilities in the following:

(1) Logs and records.
(2) R/T procedures.
(3) Information flow and routing.
(4) Interagency coordination.
(5) Communications.
(6) Support Equipment.
(7) System employment.
(8) Crew responsibilities.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): KC-130.

OPS-460 16.0 T ASLT L

TASK: Perform as a Net Operator on an Air Support Liaison Team.

CONDITION(S): Field.

STANDARD(S): Perform as a member of a Air Support Liaison Team.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): FSCC.

OPS-470 4 Months T __ ASE L

TASK: Perform as a net operator of an Air Support Element (ASE) on a MEU.

CONDITION(S): Field.

STANDARD(S): Perform as a member of an ASE on a MEU.

PREREQUISITE(S): None.

REFERENCE(S): MCWP 3-25 and MCWP 3-25.5.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): MEU/ARG.

1240. SPECIAL TRAINING REQUIREMENTS

1. **Special Training**

a. **Purpose**. To track events that do not have CRP credit but augment the proficiency of the DASC.

b. **General**

(1) **Administrative Notes**. This phase is reserved to track events that augment the proficiency of the DASC.

(2) **Prerequisite(s)**. None.

c. **Crew Requirements**. None.

d. **Academic Training**. None.

e. **Live and Simulator Event Training (5 Events, 52 Hours)**

RQD-680 40.0 T __ VEHICLE L

TASK: Obtain an Incidental drivers license.

CONDITION(S): Garrison.

STANDARD(S): Successfully complete appropriate drivers course.

PREREQUISITE(S): Driver Improvement class, Current State Drivers license.

REFERENCE(S): None

ORDNANCE: None

EXTERNAL SUPPORT REQUIREMENT(S): Local licensing authority.

RQD-681 8.0 T __ GENERATOR L

TASK: Attain a generator license.

CONDITION(S): Garrison.

STANDARD(S): Successfully complete appropriate licensing course.

PREREQUISITE(S): None.

REFERENCE(S): None.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Local licensing authority.

RQD-682 **1.0** **T** __ **NONE** **L**

TASK: Pass Aviation Flight Physical.

CONDITION(S): Garrison.

STANDARD(S): U.S. Bureau of Medicine (BUMED).

PREREQUISITE(S): None.

REFERENCE(S): OPNAVINST 3710 and MCO P1326.2.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Flight Surgeon.

RQD-683 **8.0** **T** **NONE** **L**

TASK: Pass Flight Physiology.

CONDITION(S): Garrison.

STANDARD(S): BUMED.

PREREQUISITE(S): RQD-482.

REFERENCE(S): OPNAVINST 3710 and MCO P1326.2.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Aviation Survival Training Center.

RQD-684 **8.0** **T** __ **NONE** **L**

TASK: Pass appropriate Aviation Swim Qualification.

CONDITION(S): Garrison.

STANDARD(S): BUMED.

PREREQUISITE(S): RQD-482 and RQD-483.

REFERENCE(S): OPNAVINST 3710 and MCO P1326.2.

ORDNANCE: None.

EXTERNAL SUPPORT REQUIREMENT(S): Aviation Survival Training Center.

1250. EXPENDABLE ORDNANCE REQUIREMENTS. None.

1260. PROFICIENCY INTERVALS. Table 12-8, 12-9, 12-10, and 12-11 contain the proficiency intervals for the combat capable/readiness, combat qualification, full-combat qualification, and special skills training levels.

Table 12-8. ASNO Proficiency Interval for the Combat Capable/Readiness Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	100	1		3				X	L
	101	1		1				X	L
	102	1		1				X	L
	103	1		1	X	X		X	L
	104	1		3				X	L
	105	1		3				X	L
	106	1		1				X	L
	107	1		1				X	L
	108	1		1				X	L
	109	7		10				X	L
QUAL	192	1		5				X	L
	193	1		8				X	L
	194	1		8				X	L
	195	1		8				X	L
	196	1		2				X	L
	197	1		2				X	L
	198	1		2				X	L
SYS	200	1		0.75	X	X	X		L/S
	202	1		1	X			X	L/S
	203	1		1	X				L/S
	204	1		1	X			X	L/S
	205	1		1	X			X	L/S
	209	1		0.75	X		X	X	L
FAM	210	1		0.5	X				L/S
	211	1		0.5	X				L/S

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
	212	1		0.5	X				L/S
	213	1		0.5	X				L/S
	214	1		0.5	X				L/S
	215	1		0.5	X				L/S
NBC	220	4		0.5	X	X			S/L
OPS	240	8		2	X			X	L/S
	241	8		2	X				L/S
	242	8		2	X				L/S

Table 12-9. ASNO Proficiency Interval for the Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS & REMARKS
SYS	309	1	16	1.5	X		X		L
OPS	330	8		2	X	X			L/S
	331	8		2	X	X			L/S
	332	8		2	X	X			L/S
	333	8		3	X	X		X	L/S
	335	8		3	X	X		X	L/S
	337	8		3	X	X		X	L/S
QUAL	390	8	16	3.5	X		X	X	L/S

Table 12-10. ASNO Proficiency Interval for the Full-Combat Qualification Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS& REMARKS
OPS	401	1	16	1.25	X	X	X		L/S
	450	4		1.25	X	X			L
	460	16		1.25	X				L
	470	4 mos		1.25	X				L

Table 12-11. ASNO Proficiency Interval for the Special Skills Training Level

EVENT	CODE	HOURS	PROFICIENCY INTERVAL	CRP	T	C	R	E	CONDITIONS& REMARKS
RQD	680	40		0	X				L
	681	8		0	X				L
	682	1		0	X				L
	683	8		0	X				L
	684	8		0	X				L

1270. EVENT UPDATE CHAINING. Table 12-12 contains the event update chaining for the ASNO.

Table 12-12 ASNO
Training Event Update Chaining

EVENTS		EVENTS UPDATED
100		
101		
102		
103		
104		
105		
106		
107		
108		
109		
192		
193		
194		
195		
196		
197		
198		
200		
202		
203		
204		
205		
209		

EVENTS		EVENTS UPDATED
210		
212		
213		
214		
215		
220		
240		241, 242
241		
242		
309		
330		
331		203
332		203
333		200, 202, 204, 240, 241, 242
335		200, 202, 204, 240, 241, 242
337		200, 202, 204, 240, 241, 242
390		220, 333, 335
401		
450		
460		
470		
680		
681		
682		
683		
684		

CHAPTER 13 CANCELED BY MCO P3500.57

CHAPTER 14 CANCELED BY MCO P3500.57

CHAPTER 15 CANCELED BY MCO P3500.57

72XX OFFICER - AIR DEFENSE COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Prepare the air defense portion of the TACC crew briefing			
2	Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, etc.) and assist in the development of the air defense plan for the MAGTF			
3	Perform threat analysis for designated air defense priorities			
4	Review and make recommendations for modification of airspace/air defense control measures, as required			
5	Conduct TMD planning, as required			
6	Participate in the planning of emissions/radiation control measures			
7	Conduct the air defense portion of the TACC crew briefing			
8	Monitor, supervise and coordinate the control of aircraft and missiles for air defense by subordinate/adjacent C3 agencies			
9	Coordinate the air defense operations of MACCS agencies with external agencies, as directed			
10	Initiate orders to MACCS agencies for air defense and countermand subordinate agency actions, as required			
11	Monitor the equipment status and operational posture of C3 agencies relative to air defense, as required			
12	Coordinate the establishment and dissemination of air defense warning conditions/weapons control status/states of alert			
13	Coordinate with the SAAWC/TAOC concerning the execution of air defense missions			

	STANDARD(S):	SAT	UNSAT	N/A
14	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: - Cancel missions and launches of preplanned missions in cases where requirements no longer exist - Divert preplanned missions and provide mission briefings - Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations - Direct launches of unscheduled missions and provide mission briefings - Coordinate the scramble and reconstitution of on-call (strip alert) missions			
15	Ensure that information is kept current and that the SAC is updated concerning the air defense situation			
16	Coordinate: - The modification of ADCMs, as required - Changes to sectors of responsibility, as required - Changes to established ROE, as required - Changes to EMCON/RADCON status, as required - The flow of air defense information/reports			
17	Ensure that established cross-tell procedures are utilized by the air defense section, as required			
18	Maintain appropriate logs			

COMMENTS: _____
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_____.

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

“I HAVE SEEN THIS EVALUATION AND BEEN DEBRIEFED ON MY PERFORMANCE.”

(MARINE’S INITIALS)_____ (EVALUATOR’S INITIALS) _____

TO BE SIGNED ONLY IF QUALIFICATION IS RECOMMENDED:

“I CERTIFY THAT THE ABOVE NAMED MARINE HAS COMPLETED THE REQUIREMENTS NECESSARY FOR QUALIFICATION IN THE AFOREMENTIONED BILLET.”

(EVALUATOR’S SIGNATURE)_____

72XX OFFICER - INTERFACE CONTROL OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Develop an OPTASKLINK in accordance with joint standards			
2	Assist in the development of the MAGTF surveillance plan/TACOPDAT in accordance with joint standards			
3	Assist in the development of communications interface inputs/requirements, for inclusion in the OPORD (Annex K) or other applicable directives, to include: - Radio net requirements - Multi-channel radio requirements - SATCOM requirements - Telephone (secure and non-secure) requirements - Data link interface requirements - BME interface requirements - LAN/WAN/Internet requirements (NIPRNET/SIPRNET), to include IP address matrices and router implementation plans			
4	Coordinate input to the Intent-To-Use/CMS Callout messages and ensure the availability of all required cryptographic keying material			
5	Assist in the development of redundant architectural designs for all interface requirements listed in (3) above			
6	Conduct the ICO portion of the TACC crew briefing			
7	Supervise the TDC performing track management functions			
8	Supervise the appropriate use and implementation of manual crosstell procedures			
9	Recommend and implement changes to data link configurations and EMCON conditions, as required			
10	Monitor the accuracy of datalink presentations			
11	Coordinate with the Crew Chief and Maintenance Coordinator to ensure the quality of system interfaces and recommend solutions to identified deficiencies			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____
_____.

"I HAVE SEEN THIS EVALUATION AND BEEN DEBRIEFED ON MY PERFORMANCE."

(MARINE'S INITIALS)_____ (EVALUATOR'S INITIALS) _____

TO BE SIGNED ONLY IF QUALIFICATION IS RECOMMENDED:

"I CERTIFY THAT THE ABOVE NAMED MARINE HAS COMPLETED THE REQUIREMENTS NECESSARY FOR QUALIFICATION IN THE AFOREMENTIONED BILLET."

(EVALUATOR'S SIGNATURE)_____

72XX OFFICER - CLOSE BATTLE COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Prepare the Close Battle Cell portion of the TACC crew briefing			
2	Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the close/rear battle plans for the MAGTF			
3	Review and make recommendations for modification of airspace/fire support coordination measures, as required			
4	Assist in TMD planning, as required			
5	Assist in the planning of emissions control measures, as required			
6	Assist in the planning for MEDEVAC operations, as required			
7	Coordinate with external agencies for information flow requirements			
8	Conduct the Close Battle Cell portion of the TACC crew briefing			
9	Acquire and maintain current information concerning the status and operations of air missions supporting the MAGTF close battle			
10	Advise the SWO/SAC concerning employment of air assets supporting the MAGTF close battle			
11	Coordinate the synchronization of air operations in support of the MAGTF close battle within the current-day ATO cycle			
12	Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required			
13	Coordinate with the DASC for receipt of immediate JTAR/ASR/MEDEVAC information			
14	Recommend courses of action to support JTARs/ASRs/MEDEVACs to the SAC/SWO based upon asset availability			

	STANDARD(S):	SAT	UNSAT	N/A
15	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: - Cancel missions and launches of preplanned missions in cases where requirements no longer exist - Divert preplanned missions and provide mission briefings - Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations - Direct launches of unscheduled missions and provide mission briefings - Coordinate the scramble and reconstitution of on-call (strip alert) missions			
16	Ensure that information is kept current and that the SAC is updated concerning the close battle situation			
17	Coordinate the modification of ACMs/FSCMs, as required			
18	Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action			
19	Coordinate with the ground watch section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures			
20	Supervise the conduct of the Close Battle Cell			
21	Monitor the equipment status and operational posture of C3 agencies relative to the close battle, as required			
22	Maintain appropriate logs			

COMMENTS: _____
_____
_____.

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

“I HAVE SEEN THIS EVALUATION AND BEEN DEBRIEFED ON MY PERFORMANCE.”

(MARINE’S INITIALS)_____ (EVALUATOR’S INITIALS) _____

TO BE SIGNED ONLY IF QUALIFICATION IS RECOMMENDED:

“I CERTIFY THAT THE ABOVE NAMED MARINE HAS COMPLETED THE REQUIREMENTS NECESSARY FOR QUALIFICATION IN THE AFOREMENTIONED BILLET.”

(EVALUATOR’S SIGNATURE)_____

72XX OFFICER - AIRSPACE CONTROL OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Conduct the ACO portion of the TACC crew briefing			
2	Coordinate with the ground watch section for the plotting and deconfliction of site support coordination measures as they affect air operations, as required			
3	Coordinate with the Airspace Control Authority (ACA) for all immediate (current ATO) airspace requirements beyond the FSCL, as required			
4	Update and monitor changes to the ACP, ACO, or SPINS and apprise the SAC/SWO of any changes, as required			
5	Coordinate/deconflict airspace requirements with MACCS agencies, as required by the fixed wing, rotary wing, and search and rescue cells			
6	Modify airspace requirements as required to support Joint/Combined/MAGTF air operations			
7	Assist in RCC coordination, as required			
8	Notify the SAC/SWO of any overdue aircraft, as required			
9	Coordinate/resolve airspace issues with external agencies Joint, FAA, host nation), as required			

COMMENTS: _____
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_____
_____
_____.

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

“I HAVE SEEN THIS EVALUATION AND BEEN DEBRIEFED ON MY PERFORMANCE.”

(MARINE’S INITIALS)_____ (EVALUATOR’S INITIALS) _____

TO BE SIGNED ONLY IF QUALIFICATION IS RECOMMENDED:

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(EVALUATOR’S SIGNATURE)_____

72XX OFFICER - CLOSE BATTLE ANALYST

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Review MAGTF targeting guidance and combat assessment data (e.g. BDA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution			
2	Coordinate with the intelligence watch section concerning updated targeting and BDA information			
3	Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action			
4	Monitor MAGTF targeting guidance updates			
5	Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required			
6	Advise the SWO on the real-time employment of air assets to support the close battle			
7	Maintain current situational awareness concerning air missions in support of the MAGTF close battle			
8	Analyze in-flight reports/BDA's and coordinate with the intelligence watch section for simultaneous review and processing			
9	Assess the close battle and the requirement to shift ATO assets to support the ongoing battle			
10	Coordinate with the Close Battle Coordinator, the MAGTF air officer, the Combat Service Support Element, and the Force Fires Coordination Center to maintain situational awareness			
11	Coordinate with the Close Battle Cell concerning asset availability for JTARs/ASRs before jointly recommending a course of action to the SWO			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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"I HAVE SEEN THIS EVALUATION AND BEEN DEBRIEFED ON MY PERFORMANCE."

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(EVALUATOR'S SIGNATURE)_____

72XX OFFICER - ATO/ACO PLANNER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S): Complete either section A, B, or C	**SAT**	**UNSAT**	**N/A**
A	**AIRSPACE/ CONTROL MEASURES PLANNING**			
1	Coordinate and assist in the establishment of Letters of Agreement/Memoranda of Agreement with external agencies (FAA, ICAO, host nation) to define and delegate areas of control jurisdiction and conditions of use: - Special Operating Conditions - Detailed Air Traffic Control Procedures			
2	Coordinate airspace requirements and utilization procedures between the GCE, ACE, CSSE, and external agencies to ensure safe and orderly control and movement of aircraft within the JTF/MAGTF AO			
3	Develop, review and standardize air traffic control procedures within the AO			
4	Coordinate and publish an ATC contingency plan to allow for continuity of aircraft operations			
5	Coordinate all requirements for ATC flight certification			
6	Delegating responsibility for control of aircraft within the OPORD/ATO			
7	Develop routing procedures for the AO that are deconflicted with FSCMs/ADCMs/ACMs to allow safe and efficient movement of aircraft throughout the AO			
8	Establish high density air control zones (HIDACZ) and low level transit routes (LLTRs) within the AO, as required			
9	Entering required C2 information into the applicable CTAPS database(s)			
B	**AIR DEFENSE PLANNING**			
1	Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, etc.) and assist in the development of the air defense plan for the MAGTF			
2	Review and make recommendations for modification of airspace/air defense control measures, as required			
3	Conduct TMD planning, as required			
4	Participate in the planning of emissions/radiation control measures			
5	Assist in the development of BDZ/HVAA protection plans			
6	Recommend changes to air defense asset positioning and weapons resupply procedures			

	STANDARD(S): Complete either section A, B, or C	SAT	UNSAT	N/A
C	**AIR SUPPORT PLANNING**			
1	Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the MAGTF battle plan			
2	Review and make recommendations for modification of airspace/fire support coordination measures			
3	Assist in TMD planning, as required			
4	Assist in the planning of emissions control measures			
5	Assist in the planning for MEDEVAC operations			
6	Recommend changes to asset positioning and logistical/communications requirements (e.g. FARP/FOB)			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

72XX OFFICER - SENIOR AIR COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Supervise the preparation of the TACC crew briefing			
2	Conduct site survey for determining potential locations for the TACC facility: - Communications connectivity - Logistical supportability - Utilization of existing facilities at site location - Rear area security considerations - Proximity to ACE Headquarters			
3	Supervise the construction/emplacement of the TACC facility			
4	Assist in the development of watch schedules/duty rosters to meet operational requirements			
5	Supervise efficient routing of information within the Current Operations Section			
6	Review applicable planning documents (OPORD, ATO, ACO, ADP, etc.) and provide recommendations to the SWO pertaining to air defense/air support operations within the MAGTF AO			
7	Conduct TACC crew briefing			
8	Assist the SWO in supervising the execution of the current ACE Battle plan, as required: - Ensure that the situation and status displays are current and accurate - Evaluate the capability of available assets to fulfill ATO tasking - Recommend courses of action to overcome ATO deficiencies - Update the SWO/Current Operations Officer on any unanticipated developments that may impact planned operations - Issuing and documenting ATO adjustments approved by the SWO/Current Operations Officer - Adjudicating with the MAGTF/JFACC any immediate JTARs/ASRs that exceed the current sortie allocation			
9	Establish liaison and effect coordination with senior watch officers of subordinate, adjacent, and senior air control agencies			
10	Supervise and coordinate the proper employment of air defense and air support assets			
11	Recommend changes to the weapons control status for the MAGTF to the SWO			

	STANDARD(S):	SAT	UNSAT	N/A
12	Monitor the air defense warning conditions selected by the SAAWC, with concurrence by the SWO, make recommendations for their modification, and ensure dissemination to the MAGTF, as required			
13	Supervise the proper and expeditious dissemination of all essential information to C3 agencies and aircrews, as required			
14	Monitor the reporting of events by agencies subordinate to the TACC			
15	Supervise the functioning and performance of Current Operations watch standers			
16	Advise the SWO on all matters pertinent to the MACCS in the conduct of current operations			
17	Perform the functions of the SWO, when directed			
18	Maintain appropriate logs			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

72XX OFFICER - AVIATION C2 PLANNER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Assist in the development of ACE operations orders/frag orders, ADP/ACP, etc. based upon support plans prepared by the future plans section			
2	Plan and coordinate C2 requirements to meet planned aviation needs beyond the ATO timeline, to include: - Helicopter operations (tasking, routing, escort) - Projected strike packages - CSAR/TRAP operations - SEAD operations - AAW operations - Air C2 support requirements			
3	Coordinate with the ATO Development Officer, Orders Development Officer and the Future Operations Officer concerning matters pertaining to C2 orders development			
4	Prepare plans associated with reorganization, liaison, augmentation, and connectivity required to assume JFACC/JAOC responsibilities, as required			
5	Prepare the C2 portion of the ACE master attack plan in concert with the MAGTF master attack plan: - Deconflict allocated air assets against the MAGTF prioritized target list - Deconflict mission routing with the Integrated Air Defense plan - Deconflict air defense priorities with the requirements of the ACE master attack plan -			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

72XX OFFICER - DEEP BATTLE COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Conduct the Deep Battle Cell portion of the TACC crew briefing			
2	Acquire and maintain current information on the status and operations of air missions in support of the MAGTF deep battle			
3	Advise the SWO/SAC on the employment of air assets in support of the MAGTF deep battle			
4	Coordinate the synchronization of air operations in support of the MAGTF deep battle within the ATO cycle			
5	Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required			
6	Coordinate with the DASC, and other C3 agencies, for receipt of immediate JTAR/ASR/MEDEVAC information			
7	Recommend courses of action to support JTAR/ASR/MEDEVACs to the SAC/SWO based upon asset availability			
8	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: - Cancel missions and launches of preplanned missions in cases where requirements no longer exist - Divert preplanned missions and provide mission briefings - Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations - Direct launches of unscheduled missions and provide mission briefings - Coordinate the scramble and reconstitution of on-call (strip alert missions)			
9	Ensure that information is kept current and that the SAC is updated concerning the deep battle situation			
10	Coordinate the modification of ACMs/FSCMs, as required			
11	Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action			

	STANDARD(S):	SAT	UNSAT	N/A
12	Coordinate with the ground watch section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures			
13	Monitor the equipment status and operational posture of C3 agencies relative to the close battle, as required			
14	Review MAGTF targeting guidance and combat assessment data in order to provide ATO refresh input to planned events at least 4 hours prior to execution			
15	Coordinate with ACI target intelligence section to receive updated targeting and BDA information			
16	Receive in-flight reports for passage to the intelligence watch section for review and processing			
17	Recommend, in conjunction with the ACI target intelligence section, to the SWO dynamic retasking of air assets in response to emergent targets in the deep battle area			
18	Provide the SWO the impact on the deep battle of shifting assets during the current ATO			
19	Recommend changes to, or identify preplanned ordnance configurations in response to target changes or weather conditions			
20	Supervise the conduct of the Deep Battle Cell			
21	Maintain appropriate logs			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

72XX OFFICER - AIR BATTLE TASKER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Participate in CBC-210, DBC-600, ADC-220 planning events as appropriate			
2	Build a report in CAFMS X or FLEX			
3	Execute MSN replanning, change TOS, TGT, Tanking information, Kill box and MSN info			
4	Submit a MSN change to the ATO			
5	Demonstrate proficiency with TK Talk & Applix			
6	Submit other MSN info as required			
7	Add, change, delete mission in CAFMS X or FLEX			
8	Coordinate asset availability, mission changes, launch information, and other critical information as appropriate with the supporting aviation units			

COMMENTS: _____
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(EVALUATOR'S SIGNATURE)_____

72XX OFFICER - SEARCH AND RESCUE COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Prepare the SRCC portion of the TACC crew briefing			
2	Assist in the development of the CSAR plan			
3	Assist in the development of the TRAP plan			
4	Assist in the planning for SAR communications			
5	Assist in the development and preparation of execution checklists, as required			
6	Coordinate with the Joint Search and Rescue Center (JSRC) concerning CSAR aircraft availability and requirement for TRAP assets that exceed ACE platform capabilities/survivability for SAR operations			
7	Conduct the SRCC portion of the TACC crew brief			
8	Supervise the activation and monitoring of SAR communications and execution checklists, as required			
9	Draft messages pertaining to MAGTF CSAR/TRAP operations (i.e. Search and Rescue Incident Report (SARIR) and SAR Situation Report (SAR SIT))			
10	Notify the SWO of supporting aircraft requirements for CSAR/TRAP operations, the progress of CSAR/TRAP operations, and any situations that restrict or hinder CSAR/TRAP operations			
11	Coordinate CSAR/TRAP efforts with units and/or agencies external to the ACE (i.e. JFACC Joint SAR Center (JSRC))			
12	Coordinate CSAR/TRAP efforts with the DASC, provided such efforts transit that battlespace short of the FSCL			
13	Ensure that CSAR/TRAP case folders are completed and maintained			
14	Monitor and update location/availability of CSAR/TRAP assets			
15	Provide feedback to future operations on changes required for subsequent ATOs concerning SAR/TRAP support (i.e. packaging, SPINS, checklists, etc.)			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

72XX OFFICER - DEEP BATTLE ANALYST

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Review MAGTF targeting guidance and combat assessment data (e.g. BDA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution			
2	Coordinate with the intelligence watch section concerning updated targeting and BDA information			
3	Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action			
4	Monitor MAGTF targeting guidance updates			
5	Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required			
6	Advise the SWO on the real-time employment of air assets to support the deep battle			
7	Maintain current situational awareness concerning air missions in support of the MAGTF deep battle			
8	Analyze in-flight reports/BDA's and coordinate with the intelligence watch section for simultaneous review and processing			
9	Assess the deep battle and the requirement to shift ATO assets to support the ongoing battle			
10	Coordinate with the Deep Battle Coordinator, the Ground Watch Section, the MAGTF air officer, and the Force Fires Coordination Center to maintain situational awareness			
11	Coordinate with the Deep Battle Cell concerning asset availability for JTARs/ASRs before jointly recommending a course of action to the SWO			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

72XX OFFICER - ATO PLANS OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Receive and review the MAGTF master attack plan			
2	Prepare the ACE master attack plan to include: - Sequencing and deconflicting apportioned air assets against the MAGTF prioritized target list - Weaponeering and packaging air assets, as required, based on the threat, desired level of destruction and timeliness - Deconflicting simultaneous missions by other MAGTF lethal/non-lethal assets			
3	Prepare sortie availability charts			
4	Prepare aircraft flow sheets			
5	Separate the MAGTF prioritized target list according to target sourcing (direct support targets/common sourced targets) for submission to the joint force commander			
6	Review and input any database changes to the aircraft laydown, standard configuration loads, and aircraft parametric data			
7	Prepare the target planning worksheets and submit them to the ATO production cell for input into the applicable electronic planning system			
8	Prepare the special instructions (SPINS), and any changes to the airspace control plan and air defense plan for incorporation into the ATO			
9	Perform the final review of the ATO before release/forwarding			
10	Ensure that sortie available aircraft flow and target planning worksheets, as applicable, are forwarded to the Marine liaison cell in the JAOC combat plans division			
11	Make adjustments to force packaging, routing, weapons loadout, aircraft survivability equipment configurations, or other tactics, as a result of the combat assessment board analysis			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

72XX OFFICER - SENIOR WATCH OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Supervise the execution of the ATO by: - Ensuring that situation and status displays are current and accurate - Evaluating the capability of available forces to fulfill ATO tasking and recommending a course of action to the Current Operations Officer when there is a shortfall - Keeping the Current Operations Officer informed on unanticipated developments or problems that may impact planned operations - Recommending adjustments to the published ATO when required by the current situation - Issuing and documenting ATO adjustments approved by the Current Operations Officer			
2	Demonstrate familiarity with all aspects of air operations, to include force beddown, sortie availability, airspace control measures, communications, rules of engagement, aircraft capabilities/limitations, and munitions capabilities			
3	Effect coordination with senior watch officers of subordinate, adjacent, and senior air/ground agencies			
4	Monitor reporting of events by agencies subordinate to the TACC			
5	Adjudicate with the MAGTF/JFACC any immediate JTARs/JTASRs that exceed the current planned allocation			
6	Determine reporting responsibilities and establish procedures for preparing reports from Current Operations for the commander’s situation report, commander’s daily briefing, and as directed by the Current Operations Officer			
7	Perform the functions of the Current Operations Officer, as required			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

72XX ENLISTED - PLOTTER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Utilize chart menu options for display management purposes (TCO)			
2	Utilize map menu options for display management purposes (TCO)			
3	Create, edit, update and delete track/unit information, communications tables, and filters (TCO)			
4	Create and utilize overlay functions (TCO)			
5	Perform track grouping functions (TCO)			
6	Send and receive OpNotes/Operator messages (TCO)			
7	Entering, modifying, and deleting all airspace control measures (ACM) data into the database (BME)			
8	Plot JTARs/ASRs, and required threat information as appropriate			
9	Advise the Crew Chief of any potential conflicts in airspace or procedures			
10	Understanding of aviation and ground symbology			
11	Understanding of Manual Crosstell priorities			
12	Using the established/published crosstell format to pass/receive track information on the appropriate net(s)			
13	Post and maintain non-real time (NRT) tracks based on information received from external agencies			
14	Updating all ACM/FSCM/ADCMs in effect			
15	Updating friendly and enemy positions on situation maps			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

72XX ENLISTED - RECORDER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Maintain and update the status of Air Tasking Order (ATO) missions			
2	Receive and forward reports (i.e., engagement reports, bomb damage assessments, JTARs, ASRs, etc.) using the established formats			
3	Utilization of appropriate CTAPS/BME applications to update, modify, and add an ATO mission			
4	Utilization of CTAPS/BME as a communications and word processing platform			
5	Utilization of CTAPS/BME to produce required ATO related reports			
6	Maintain appropriate logs			
7	Assist the Coordinator as required in C2 management functions			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(MARINE’S INITIALS)_____ (EVALUATOR’S INITIALS) _____

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(EVALUATOR’S SIGNATURE)_____

72XX ENLISTED - TRACK DATA COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Enter required DB entries (serial link)			
2	Activate, determine the status of, and troubleshoot each link as applicable (serial link)			
3	Perform order functions associated with the appropriate link (serial link)			
4	Perform track management functions (serial link)			
5	Enter required DB entries (netted link)			
6	Activate, determine the status of, and troubleshoot each link as applicable (netted link)			
7	Operate in the following modes: Radio Silent (RADSIL), Picket, Net Control (NCS); (TADIL A)			
8	Perform track management functions IAW ICO's direction (netted link)			
9	Perform track data coordination responsibilities over designated voice nets			
10	Brief the link critical information during the TACC crew briefing			
11	Ensure data link DB entries are entered and correct; Exercise			
12	Ensure TACC data link equipment is set up/keyed			
13	Ensure required DL filters are entered and activated			
14	Perform link troubleshooting and take corrective action as required			
15	Perform/supervise manual crosstell procedures			
16	Integrate Tactical Command System (CTT3) data into the TADIL display			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(MARINE’S INITIALS)_____ (EVALUATOR’S INITIALS) _____

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(EVALUATOR’S SIGNATURE)_____

72XX ENLISTED - CREW CHIEF

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S). Demonstrate proficiency in:	**SAT**	**UNSAT**	**N/A**
1	Brief the Crew Chief portion of the TACC crew briefing			
2	System set up and initialization			
3	Keying of all crypto			
4	Appropriate DBs are loaded			
5	Proper handling/procedures of classified materials			
6	Provide instruction to crew members, as required			
7	Maintenance of all CC/crew logs			
8	Manage the handling of reports generated within the COS			
9	Ensure that all status/plotting boards are updated and maintained			
10	Monitor current weather status			
11	Monitor the control and distribution of classified material within the COS			
12	Supervise the proper routing of information within the COS			
13	Provide the interface between operations and maintenance for systems fault resolution			
14	Ensure timely receipt/submission of required reports			
15	Maintain CC log, crew rosters, collect and safeguard operational logs/information and T&R documentation at the conclusion of the crew watch			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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“I HAVE SEEN THIS EVALUATION AND BEEN DEBRIEFED ON MY PERFORMANCE.”

(MARINE’S INITIALS)_____ (EVALUATOR’S INITIALS) _____

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(EVALUATOR’S SIGNATURE)_____

72XX ENLISTED - AIR DEFENSE COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Prepare the air defense portion of the TACC crew briefing			
2	Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, etc.) and assist in the development of the air defense plan for the MAGTF			
3	Perform threat analysis for designated air defense priorities			
4	Review and make recommendations for modification of airspace/air defense control measures, as required			
5	Conduct TMD planning, as required			
6	Participate in the planning of emissions/radiation control measures			
7	Conduct the air defense portion of the TACC crew briefing			
8	Monitor, supervise and coordinate the control of aircraft and missiles for air defense by subordinate/adjacent C3 agencies			
9	Coordinate the air defense operations of MACCS agencies with external agencies, as directed			
10	Initiate orders to MACCS agencies for air defense and countermand subordinate agency actions, as required			
11	Monitor the equipment status and operational posture of C3 agencies relative to air defense, as required			
12	Coordinate the establishment and dissemination of air defense warning conditions/weapons control status/states of alert			
13	Coordinate with the SAAWC/TAOC concerning the execution of air defense missions			

14	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: - Cancel missions and launches of preplanned missions in cases where requirements no longer exist - Divert preplanned missions and provide mission briefings - Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations - Direct launches of unscheduled missions and provide mission briefings - Coordinate the scramble and reconstitution of on-call (strip alert) missions			
15	Ensure that information is kept current and that the SAC is updated concerning the air defense situation			
16	Coordinate: - The modification of ADCMs, as required - Changes to sectors of responsibility, as required - Changes to established ROE, as required - Changes to EMCON/RADCON status, as required - The flow of air defense information/reports			
17	Ensure that established cross-tell procedures are utilized by the air defense section, as required			
18	Maintain appropriate logs			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(MARINE’S INITIALS)_____ (EVALUATOR’S INITIALS) _____

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(EVALUATOR’S SIGNATURE)_____

72XX ENLISTED - INTERFACE CONTROL OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Develop an OPTASKLINK in accordance with joint standards			
2	Assist in the development of the MAGTF surveillance plan/TACOPDAT in accordance with joint standards			
3	Assist in the development of communications interface inputs/requirements, for inclusion in the OPORD (Annex K) or other applicable directives, to include: - Radio net requirements - Multi-channel radio requirements - SATCOM requirements - Telephone (secure and non-secure) requirements - Data link interface requirements - BME interface requirements - LAN/WAN/Internet requirements (NIPRNET/SIPRNET), to include IP address matrices and router implementation plans			
4	Coordinate input to the Intent-To-Use/CMS Callout messages and ensure the availability of all required cryptographic keying material			
5	Assist in the development of redundant architectural designs for all interface requirements listed in (3) above			
6	Conduct the ICO portion of the TACC crew briefing			
7	Supervise the TDC performing track management functions			
8	Supervise the appropriate use and implementation of manual crosstell procedures			
9	Recommend and implement changes to data link configurations and EMCON conditions, as required			
10	Monitor the accuracy of datalink presentations			
11	Coordinate with the Crew Chief and Maintenance Coordinator to ensure the quality of system interfaces and recommend solutions to identified deficiencies			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(MARINE'S INITIALS)_____ (EVALUATOR'S INITIALS) _____

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(EVALUATOR'S SIGNATURE)_____

72XX ENLISTED - CLOSE BATTLE COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Prepare the Close Battle Cell portion of the TACC crew briefing			
2	Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the close/rear battle plans for the MAGTF			
3	Review and make recommendations for modification of airspace/fire support coordination measures, as required			
4	Assist in TMD planning, as required			
5	Assist in the planning of emissions control measures, as required			
6	Assist in the planning for MEDEVAC operations, as required			
7	Coordinate with external agencies for information flow requirements			
8	Conduct the Close Battle Cell portion of the TACC crew briefing			
9	Acquire and maintain current information concerning the status and operations of air missions supporting the MAGTF close battle			
10	Advise the SWO/SAC concerning employment of air assets supporting the MAGTF close battle			
11	Coordinate the synchronization of air operations in support of the MAGTF close battle within the current-day ATO cycle			
12	Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required			
13	Coordinate with the DASC for receipt of immediate JTAR/ASR/MEDEVAC information			
14	Recommend courses of action to support JTARs/ASRs/MEDEVACs to the SAC/SWO based upon asset availability			

15	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: - Cancel missions and launches of preplanned missions in cases where requirements no longer exist - Divert preplanned missions and provide mission briefings - Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations - Direct launches of unscheduled missions and provide mission briefings - Coordinate the scramble and reconstitution of on-call (strip alert) missions			
16	Ensure that information is kept current and that the SAC is updated concerning the close battle situation			
17	Coordinate the modification of ACMs/FSCMs, as required			
18	Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action			
19	Coordinate with the ground watch section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures			
20	Supervise the conduct of the Close Battle Cell			
21	Monitor the equipment status and operational posture of C3 agencies relative to the close battle, as required			
22	Maintain appropriate logs			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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“I HAVE SEEN THIS EVALUATION AND BEEN DEBRIEFED ON MY PERFORMANCE.”

(MARINE’S INITIALS)_____ (EVALUATOR’S INITIALS) _____

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(EVALUATOR’S SIGNATURE)_____

75XX OFFICER - AIR DEFENSE COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Prepare the air defense portion of the TACC crew briefing			
2	Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, etc.) and assist in the development of the air defense plan for the MAGTF			
3	Perform threat analysis for designated air defense priorities			
4	Review and make recommendations for modification of airspace/air defense control measures, as required			
5	Conduct TMD planning, as required			
6	Participate in the planning of emissions/radiation control measures			
7	Conduct the air defense portion of the TACC crew briefing			
8	Monitor, supervise and coordinate the control of aircraft and missiles for air defense by subordinate/adjacent C3 agencies			
9	Coordinate the air defense operations of MACCS agencies with external agencies, as directed			
10	Initiate orders to MACCS agencies for air defense and countermand subordinate agency actions, as required			
11	Monitor the equipment status and operational posture of C3 agencies relative to air defense, as required			
12	Coordinate the establishment and dissemination of air defense warning conditions/weapons control status/states of alert			
13	Coordinate with the SAAWC/TAOC concerning the execution of air defense missions			

14	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: - Cancel missions and launches of preplanned missions in cases where requirements no longer exist - Divert preplanned missions and provide mission briefings - Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations - Direct launches of unscheduled missions and provide mission briefings - Coordinate the scramble and reconstitution of on-call (strip alert) missions			
15	Ensure that information is kept current and that the SAC is updated concerning the air defense situation			
16	Coordinate: - The modification of ADCMs, as required - Changes to sectors of responsibility, as required - Changes to established ROE, as required - Changes to EMCON/RADCON status, as required - The flow of air defense information/reports			
17	Ensure that established cross-tell procedures are utilized by the air defense section, as required			
18	Maintain appropriate logs			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

75XX OFFICER - ORDERS DEVELOPMENT PLANNER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Assist in the development of ACE operations orders/frag orders based upon ACE support plans prepared by the Future Plans Section			
2	Plan and coordinate aviation requirements to meet planned aviation needs beyond the ATO timeline, but short of the next major change to the major subordinate command mission being developed by future plans: - Helicopter Operations (tasking, routes, escort) - Projected strike packages - CSAR/TRAP operations - Suppression of Enemy Air Defense (SEAD) operations - Air command and control support requirements - Aviation support requirements			
3	Coordinate with the Orders Development Officer in matters pertaining to aviation orders development and near-term plans and requirements			
4	Prepare plans associated with reorganization, liaison, augmentation, and connectivity required to assume JFACC/JAOC responsibilities, as required			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

75XX OFFICER - CLOSE BATTLE COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Prepare the Close Battle Cell portion of the TACC crew briefing			
2	Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the close/rear battle plans for the MAGTF			
3	Review and make recommendations for modification of airspace/fire support coordination measures, as required			
4	Assist in TMD planning, as required			
5	Assist in the planning of emissions control measures, as required			
6	Assist in the planning for MEDEVAC operations, as required			
7	Coordinate with external agencies for information flow requirements			
8	Conduct the Close Battle Cell portion of the TACC crew briefing			
9	Acquire and maintain current information concerning the status and operations of air missions supporting the MAGTF close battle			
10	Advise the SWO/SAC concerning employment of air assets supporting the MAGTF close battle			
11	Coordinate the synchronization of air operations in support of the MAGTF close battle within the current-day ATO cycle			
12	Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required			
13	Coordinate with the DASC for receipt of immediate JTAR/ASR/MEDEVAC information			
14	Recommend courses of action to support JTARs/ASRs/MEDEVACs to the SAC/SWO based upon asset availability			

15	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: - Cancel missions and launches of preplanned missions in cases where requirements no longer exist - Divert preplanned missions and provide mission briefings - Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations - Direct launches of unscheduled missions and provide mission briefings - Coordinate the scramble and reconstitution of on-call (strip alert) missions			
16	Ensure that information is kept current and that the SAC is updated concerning the close battle situation			
17	Coordinate the modification of ACMs/FSCMs, as required			
18	Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action			
19	Coordinate with the ground watch section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures			
20	Supervise the conduct of the Close Battle Cell			
21	Monitor the equipment status and operational posture of C3 agencies relative to the close battle, as required			
22	Maintain appropriate logs			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

75XX OFFICER - ATO MISSION PLANNER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Receive and review the MAGTF master attack plan			
2	Prepare worksheets to be used in the creation of the ACE master attack plan to include: - Sequencing and deconflicting allocated air assets against the MAGTF prioritized target list - Weaponeering and packaging air assets, as required, based on the threat, desired level of destruction and timeliness - Deconflicting simultaneous missions between other MAGTF lethal/non-lethal assets			
3	Prepare sortie availability charts			
4	Prepare aircraft flow sheets			
5	Separate the MAGTF prioritized target list according to target sourcing (direct support targets/common sourced targets) for submission to the Joint Force Commander			
6	Review and input any database changes to the aircraft laydown, standard configuration loads, and aircraft parametric data			
7	Prepare the target planning worksheets and submit them to the ATO Plans Officer for forwarding to the ATO production cell for input into the applicable electronic planning system			
8	Prepare the special instructions (SPINS), and any changes to the airspace control plan and air defense plan for incorporation into the ATO			
9	Adjust force packaging, routing, weapons loadout, aircraft survivability equipment configurations, or other tactics, as a result of the combat assessment board analysis			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

75XX OFFICER - CLOSE BATTLE ANALYST

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Review MAGTF targeting guidance and combat assessment data (e.g. BDA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution			
2	Coordinate with the intelligence watch section concerning updated targeting and BDA information			
3	Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action			
4	Monitor MAGTF targeting guidance updates			
5	Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required			
6	Advise the SWO on the real-time employment of air assets to support the close battle			
7	Maintain current situational awareness concerning air missions in support of the MAGTF close battle			
8	Analyze in-flight reports/BDA's and coordinate with the intelligence watch section for simultaneous review and processing			
9	Assess the close battle and the requirement to shift ATO assets to support the ongoing battle			
10	Coordinate with the Close Battle Coordinator, the MAGTF air officer, the Combat Service Support Element, and the Force Fires Coordination Center to maintain situational awareness			
11	Coordinate with the Close Battle Cell concerning asset availability for JTARs/ASRs before jointly recommending a course of action to the SWO			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(MARINE'S INITIALS)_____ (EVALUATOR'S INITIALS) _____

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(EVALUATOR'S SIGNATURE)_____

75XX OFFICER - ATO/ACO PLANNER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S): Complete either section A, B, or C	**SAT**	**UNSAT**	**N/A**
A	**AIRSPACE/ CONTROL MEASURES PLANNING**			
1	Coordinate and assist in the establishment of Letters of Agreement/Memoranda of Agreement with external agencies (FAA, ICAO, host nation) to define and delegate areas of control jurisdiction and conditions of use: - Special Operating Conditions - Detailed Air Traffic Control Procedures			
2	Coordinate airspace requirements and utilization procedures between the GCE, ACE, CSSE, and external agencies to ensure safe and orderly control and movement of aircraft within the JTF/MAGTF AO			
3	Develop, review and standardize air traffic control procedures within the AO			
4	Coordinate and publish an ATC contingency plan to allow for continuity of aircraft operations			
5	Coordinate all requirements for ATC flight certification			
6	Delegating responsibility for control of aircraft within the OPORD/ATO			
7	Develop routing procedures for the AO that are deconflicted with FSCMs/ADCMs/ACMs to allow safe and efficient movement of aircraft throughout the AO			
8	Establish high density air control zones (HIDACZ) and low level transit routes (LLTRs) within the AO, as required			
9	Entering required C2 information into the applicable CTAPS database(s)			
B	**AIR DEFENSE PLANNING**			
1	Review applicable planning documents (OPORD, ATO, ACO, ADP, OPTASKAAW, TACOPDAT, etc.) and assist in the development of the air defense plan for the MAGTF			
2	Review and make recommendations for modification of airspace/air defense control measures, as required			
3	Conduct TMD planning, as required			
4	Participate in the planning of emissions/radiation control measures			
5	Assist in the development of BDZ/HVAA protection plans			
6	Recommend changes to air defense asset positioning and weapons resupply procedures			

C	AIR SUPPORT PLANNING			
1	Review applicable planning documents (OPORD, ATO, ACO, ACP, etc.) and assist in the development of the MAGTF battle plan			
2	Review and make recommendations for modification of airspace/fire support coordination measures			
3	Assist in TMD planning, as required			
4	Assist in the planning of emissions control measures			
5	Assist in the planning for MEDEVAC operations			
6	Recommend changes to asset positioning and logistical/communications requirements (e.g. FARP/FOB)			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

75XX OFFICER - ATO PRODUCTION OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Receive and review the target planning worksheets from the ATO planning cell and input listed targets into the applicable electronic planning medium.			
2	Prepare ATO, SPINS, and ACP/ADP changes in accordance with the information, data, and guidance provided by the ATO planning cell.			
3	Print and deliver draft copies of the ATO for review by the ATO planning cell prior to release or forwarding.			
4	Maintain electronic connectivity with the JFACC for the submission of common sourced target nominations and the merging of the MAGTF direct support ATO into the joint ATO.			
5	Publish/transmit the ATO to higher, adjacent, and subordinate commands using available electronic means in accordance with the dissemination plan.			
6	Monitor the status of the theater directed electronic planning and execution medium associated equipment to identify maintenance requirements and equipment problems.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

75XX OFFICER - ATO DEVELOPMENT OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Production of a timely and executable ATO.			
2	Ensure aviation and intelligence databases required for ATO planning and production are current and accurate.			
3	Coordinate with the deep and close battle cells in current operations to receive feedback on published ATO.			
4	Coordinate with the SWO in current operations to ensure timely receipt of current battle information and monitor changes to the ATO being executed which could affect the ATO(s) under development.			
5	Maintain contact with the ACE augmentation cell in the joint air operations center (JAOC) combat plans division.			
6	Head the combat assessment board with BDA input from the ACE target intelligence officer and munitions effectiveness and strike profiles from the flying units.			
7	Provide results of combat assessment board to the MAGTF air officer and JAOC combat plans division.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

75XX OFFICER - DEEP BATTLE COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Conduct the Deep Battle Cell portion of the TACC crew briefing			
2	Acquire and maintain current information on the status and operations of air missions in support of the MAGTF deep battle			
3	Advise the SWO/SAC on the employment of air assets in support of the MAGTF deep battle			
4	Coordinate the synchronization of air operations in support of the MAGTF deep battle within the ATO cycle			
5	Maintain communications with the DASC, MAGTF air officer, the MAGTF fire support coordinator, or other agencies, as required			
6	Coordinate with the DASC, and other C3 agencies, for receipt of immediate JTAR/ASR/MEDEVAC information			
7	Recommend courses of action to support JTAR/ASR/MEDEVACs to the SAC/SWO based upon asset availability			
8	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: - Cancel missions and launches of preplanned missions in cases where requirements no longer exist - Divert preplanned missions and provide mission briefings - Adjust scheduled launch times to meet new time-on-station requirements generated by changing tactical situations - Direct launches of unscheduled missions and provide mission briefings - Coordinate the scramble and reconstitution of on-call (strip alert missions)			
9	Ensure that information is kept current and that the SAC is updated concerning the deep battle situation			
10	Coordinate the modification of ACMs/FSCMs, as required			
11	Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action			

12	Coordinate with the ground watch section for current/projected ground scheme of maneuver/fire support plan and ground boundaries/fire support coordination measures			
13	Monitor the equipment status and operational posture of C3 agencies relative to the close battle, as required			
14	Review MAGTF targeting guidance and combat assessment data in order to provide ATO refresh input to planned events at least 4 hours prior to execution			
15	Coordinate with ACI target intelligence section to receive updated targeting and BDA information			
16	Receive in-flight reports for passage to the intelligence watch section for review and processing			
17	Recommend, in conjunction with the ACI target intelligence section, to the SWO dynamic retasking of air assets in response to emergent targets in the deep battle area			
18	Provide the SWO the impact on the deep battle of shifting assets during the current ATO			
19	Recommend changes to, or identify preplanned ordnance configurations in response to target changes or weather conditions			
20	Supervise the conduct of the Deep Battle Cell			
21	Maintain appropriate logs			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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“I HAVE SEEN THIS EVALUATION AND BEEN DEBRIEFED ON MY PERFORMANCE.”

(MARINE’S INITIALS)_____ (EVALUATOR’S INITIALS) _____

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(EVALUATOR’S SIGNATURE)_____

75XX OFFICER - AIR BATTLE TASKER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Participate in CBC-210, DBC-220, ADC-600 planning events as appropriate			
2	Build a report in CAFMS X or FLEX			
3	Execute MSN replanning, change TOS, TGT, Tanking information, Kill box and MSN info			
4	Submit a MSN change to the ATO			
5	Demonstrate proficiency with TK Talk & Applix			
6	Submit other MSN info as required			
7	Add, change, delete mission in CAFMS X or FLEX			
8	Coordinate asset availability, mission changes, launch information, and other critical information as appropriate with the supporting aviation units			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

75XX OFFICER - SEARCH AND RESCUE COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Prepare the SRCC portion of the TACC crew briefing			
2	Assist in the development of the CSAR plan			
3	Assist in the development of the TRAP plan			
4	Assist in the planning for SAR communications			
5	Assist in the development and preparation of execution checklists, as required			
6	Coordinate with the Joint Search and Rescue Center (JSRC) concerning CSAR aircraft availability and requirement for TRAP assets that exceed ACE platform capabilities/survivability for SAR operations			
7	Conduct the SRCC portion of the TACC crew brief			
8	Supervise the activation and monitoring of SAR communications and execution checklists, as required			
9	Draft messages pertaining to MAGTF CSAR/TRAP operations (i.e. Search and Rescue Incident Report (SARIR)and SAR Situation Report (SAR SIT))			
10	Notify the SWO of supporting aircraft requirements for CSAR/TRAP operations, the progress of CSAR/TRAP operations, and any situations that restrict or hinder CSAR/TRAP operations			
11	Coordinate CSAR/TRAP efforts with units and/or agencies external to the ACE (i.e. JFACC Joint SAR Center (JSRC))			
12	Coordinate CSAR/TRAP efforts with the DASC, provided such efforts transit that battlespace short of the FSCL			
13	Ensure that CSAR/TRAP case folders are completed and maintained			
14	Monitor and update location/availability of CSAR/TRAP assets			
15	Provide feedback to future operations on changes required for subsequent ATOs concerning SAR/TRAP support (i.e. packaging, SPINS, checklists, etc.)			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

75XX OFFICER - DEEP BATTLE ANALYST

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Review MAGTF targeting guidance and combat assessment data (e.g. BDA, munitions effectiveness) in order to provide ATO input to planned events at least four hours prior to execution			
2	Coordinate with the intelligence watch section concerning updated targeting and BDA information			
3	Coordinate with the intelligence watch section for current/projected enemy capabilities, critical vulnerabilities, and potential enemy courses of action			
4	Monitor MAGTF targeting guidance updates			
5	Recommend ordnance configuration changes, in response to changes to target priorities and weather conditions, as required			
6	Advise the SWO on the real-time employment of air assets to support the deep battle			
7	Maintain current situational awareness concerning air missions in support of the MAGTF deep battle			
8	Analyze in-flight reports/BDA's and coordinate with the intelligence watch section for simultaneous review and processing			
9	Assess the deep battle and the requirement to shift ATO assets to support the ongoing battle			
10	Coordinate with the Deep Battle Coordinator, the Ground Watch Section, the MAGTF air officer, and the Force Fires Coordination Center to maintain situational awareness			
11	Coordinate with the Deep Battle Cell concerning asset availability for JTARs/ASRs before jointly recommending a course of action to the SWO			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

75XX OFFICER - ATO PLANS OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Receive and review the MAGTF master attack plan			
2	Prepare the ACE master attack plan to include: - Sequencing and deconflicting apportioned air assets against the MAGTF prioritized target list - Weaponeering and packaging air assets, as required, based on the threat, desired level of destruction and timeliness - Deconflicting simultaneous missions by other MAGTF lethal/non-lethal assets			
3	Prepare sortie availability charts			
4	Prepare aircraft flow sheets			
5	Separate the MAGTF prioritized target list according to target sourcing (direct support targets/common sourced targets) for submission to the joint force commander			
6	Review and input any database changes to the aircraft laydown, standard configuration loads, and aircraft parametric data			
7	Prepare the target planning worksheets and submit them to the ATO production cell for input into the applicable electronic planning system			
8	Prepare the special instructions (SPINS), and any changes to the airspace control plan and air defense plan for incorporation into the ATO			
9	Perform the final review of the ATO before release/forwarding			
10	Ensure that sortie available aircraft flow and target planning worksheets, as applicable, are forwarded to the Marine liaison cell in the JAOC combat plans division			
11	Make adjustments to force packaging, routing, weapons loadout, aircraft survivability equipment configurations, or other tactics, as a result of the combat assessment board analysis			

COMMENTS: _____
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75XX OFFICER - SENIOR WATCH OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Supervise the execution of the ATO by: - Ensuring that situation and status displays are current and accurate - Evaluating the capability of available forces to fulfill ATO tasking and recommending a course of action to the Current Operations Officer when there is a shortfall - Keeping the Current Operations Officer informed on unanticipated developments or problems that may impact planned operations - Recommending adjustments to the published ATO when required by the current situation - Issuing and documenting ATO adjustments approved by the Current Operations Officer			
2	Demonstrate familiarity with all aspects of air operations, to include force beddown, sortie availability, airspace control measures, communications, rules of engagement, aircraft capabilities/limitations, and munitions capabilities			
3	Effect coordination with senior watch officers of subordinate, adjacent, and senior air/ground agencies			
4	Monitor reporting of events by agencies subordinate to the TACC			
5	Adjudicate with the MAGTF/JFACC any immediate JTARs/JTASRs that exceed the current planned allocation			
6	Determine reporting responsibilities and establish procedures for preparing reports from Current Operations for the commander’s situation report, commander’s daily briefing, and as directed by the Current Operations Officer			
7	Perform the functions of the Current Operations Officer, as required			

COMMENTS: _____
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(EVALUATOR'S SIGNATURE)_____

75XX OFFICER - ORDERS DEVELOPMENT OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Stand up of the ACE operational planning team			
2	Development of ACE operations orders/frag orders based upon ACE support plans prepared by the future plans section			
3	Plan and coordinate the following to meet planned aviation needs beyond the ATO timeline, but short of the next major change to the major subordinate command mission being developed by future plans: - Helicopter Operations (tasking, routes, escort) - Projected strike packages - CSAR/TRAP operations - Suppression of Enemy Air Defense (SEAD) operations - Air command and control support requirements - Aviation support requirements			
4	Assist with those functions required to meet ATO timelines			
5	Coordinate with the ATO Development Officer and the Future Operations Officer in matters pertaining to orders development and near-term plans and requirements			
6	Prepare plans associated with reorganization, liaison, augmentation, and connectivity required to assume JFACC/JAOC responsibilities, as required			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

75XX OFFICER - FUTURE OPERATIONS OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Draft preliminary targeting guidance for presentation to the ACE targeting board when the ACE is employed as a maneuver unit			
2	Supervise the preparation and set up of Future Ops			
3	Issue the approved planning guidance and direct and monitor development of the ATO based on that guidance			
4	Develop the ACE master air attack plan (MAAP)			
5	Prepare the air allocation request (ALLOREQ)/air support request (AIRSUPREQ) messages, as required			
6	Prepare the sortie allotment (SORTIEALOT) message (if JFACC)			
7	Develop the ACE apportionment recommendation			
8	Review the results of previous air operations and ensure that applicable tactics or procedures are developed as the dynamic combat situation requires (combat assessment)			
9	Consult with the Current Ops Officer to determine significant problems in managing the current ATO to improve the quality and effectiveness of future ATO tasking			
10	Prepare reports from future operations for the comander’s situation report, commander’s daily briefing, and as directed by the ACE G-3.			
11	Ensure that backup procedures are prepared and can be rapidly implemented if automated planning systems fail			
12	Attend briefings to the ACE commander and ACE G-3 concerning upcoming operations about to be put into an ATO			
13	Keep Future Ops informed of the JFC/MAGTF/ACE commander’s guidance, intent, and objectives			
14	Receive (transition) the developed ACE support plan and provide to the Orders Development Section for direction to stand up an OPT to prepare a detailed ACE OPORD/FRAGO			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

75XX OFFICER - CURRENT OPERATIONS OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Supervise the preparation and set up of Current Operations			
2	Supervise the execution of the current ATO by: - Evaluating the capability of available assets to fulfill ATO tasking and recommending a course of action to the ACE Operations Officer when there is a shortfall - Keeping the ACE Operations Officer informed on unanticipated developments or problems that may impact planned operations - Approving adjustments to the published ATO when required by the current situation			
3	Demonstrate familiarity with all aspects of air operations, to include force beddown, sortie availability, airspace control measures, communications, rules of engagement, aircraft capabilities/limitations, and munitions capabilities			
4	Effect coordination with adjacent and senior air/ground agencies			
5	Provide the Future Operations Officer with a summary of significant problems encountered in executing the current ATO to improve the quality and effectiveness of future ATO tasking			
6	Ensure that backup procedures are prepared and can be rapidly implemented if automated support systems fail			
7	Prepare reports from Current Operations for the commander's situation report, commander's daily briefing, and as directed by the ACE Operations Officer			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

75XX OFFICER - FUTURE PLANS OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Maintaining close and continuous liaison with MAGTF Future Plans			
2	Conducting deliberate planning for MAGTF operation plans (OPLANs) and follow-on MAGTF missions associated with the current operation			
3	Developing aviation courses of action (COAs) for each follow-on MAGTF mission under development			
4	Developing ACE estimates of supportability for each follow-on MAGTF mission under development			
5	Developing and refining OPLANs/OPORDs associated with each follow-on MAGTF mission			
6	Providing detailed and fully integrated deployment, employment, mobilization, and sustainment plans for follow-on MAGTF mission			
7	Preparing necessary briefs for COA and/or supportability decision briefs			
8	Assisting Future Ops, as required, after the ACE Support Plan is transitioned to the operational planning team (OPT) for OPORD/FRAGO detailed preparation			

COMMENTS: _____
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TAOC - SENIOR TRAFFIC DIRECTOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Effectively manage the Traffic Section IAW the SAD's direction.			
2	Supervise all Traffic DB entries.			
3	Ensure effective employment and adherence to published ACMs and RIO procedures.			
4	Establish TADIL-C/LINK4A as briefed.			
5	Manage the control of Aerial Refueling (AR) operations.			
6	Assist in the coordination of SAR/TRAP missions in assigned sector.			
7	Ensure adherence to established Traffic Section emergency procedures.			
8	Conduct handovers with the Weapons Section and external agencies.			
9	Perform appropriate VFS/OS functions associated with Traffic.			
10	Assist the Surveillance Section in the identification of friendly aircraft in assigned sector.			
11	Compile and forward applicable reports.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

TAOC - SENIOR IDENTIFICATION DIRECTOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Conduct a detailed crew brief developed IAW pertinent air operations information received via the TAOC Operations Brief/MACCS Commander's brief. The brief will be conducted IAW the TAOC PCL and MCCRES standards.			
2	Supervise surveillance data base entries including EMCON, data links, radar performance, MRRs, and ID corridors.			
3	Supervise the air surveillance of assigned sector.			
4	Supervise the accurate implementation of established ID criteria and subsequent classification process.			
5	Supervise initialization and management of data links.			
6	Perform detailed casualty procedure planning in order to assume the functions of the track Data Coordinator (TDC) or Interface Coordination Officer (ICO) when operating as the alternate TACC.			
7	Manage the EP/EMCON plan for the TAOC and subordinate agencies.			
8	Perform appropriate VFS/OS functions associated with surveillance.			
9	Implement the published manual crosstell procedures.			
10	Manage the Surveillance Section IAW the SAD's direction.			
11	Compile and forward applicable reports.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

TAOC - SENIOR WEAPONS DIRECTOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Manage the employment of assigned weapons systems IAW established ROE.			
2	Conduct a detailed crew brief developed IAW air operations information received via the TAOC operations brief/MACCS commander's brief. The brief will be conducted IAW the TAOC PCL and MCCRES Standards.			
3	Supervise Weapons related DB entries to include WEZs, Weapons Control Boundaries, TAORs, and special points.			
4	Manage the Weapons Section IAW the SAD’s direction.			
5	Exercise system capabilities to assist in the ID process and the conduct of overall threat evaluation.			
6	Maintain status of assigned weapons systems and ensure critical information is relayed to appropriate agencies.			
7	Maintain SA on WEZ engagements, WCS, ADWC, and SOA and make recommended changes as required.			
8	Make timely requests of Strip Launch Alert (SLA) aircraft as the threat dictates.			
9	Ensure maximum use of data links to minimize voice communications.			
10	Ensure emergency procedures are fully understood and effectively implemented as required.			
11	Compile and forward applicable reports.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR’S SIGNATURE)_____

TAOC - SENIOR AIR DIRECTOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Given a list of operator alerts OCU error codes, and printer error codes, demonstrate the ability to interpret them and take appropriate action.			
2	Demonstrate the ability to fault isolate components of the seven major equipment groups of the TAOM to the LRI.			
3	Demonstrate the skills necessary to reconfigure the system around failed units.			
4	Ensure proper system configuration and DB inputs.			
5	Direct and manage crew functions.			
6	Properly maintain records and logs.			
7	Prepare the SAD brief IAW the TAOC PCL and MCCRES Standards.			
8	Oversee the planning of the Traffic, Weapons, and Surveillance sections.			
9	Supervise and manage the Traffic, Weapons, and Surveillance Sections.			
10	Plan the emplacement of the TAOC to include radar and EW/C employment.			
11	Coordinate with the SAAWC in planning overall TAOC employment.			
12	Supervise the conduct of a detailed threat analysis.			
13	Develop a crew watch schedule and change over procedures.			
14	Develop a detailed system and crew casualty and degradation plan, and detailed restoration priorities plan.			
15	Ensure communication requirements are identified that will allow for mission accomplishment.			
16	Identify system limitations for input to the ACE Commander.			
17	Ensure the SCC is conducting appropriate system maintenance/management and required interfacing with maintenance personnel.			
18	Coordinate integration of senior, adjacent, and subordinate agencies and ensure accurate and timely critical information flow is being conducted.			
19	Tactically disperse TAOMs.			
20	Effectively use passive defense measures.			
21	Ensure proper cabling of the TAOC.			
22	Echelon in/out TAOMs and external units as required.			

COMMENTS: _____

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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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(EVALUATOR'S SIGNATURE)_____

TAOC - SAAWC OPERATIONS OFFICER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Prepare the TAOC Operations brief IAW the pertinent air operations information received via MACG Commander's brief, OP Orders, ACP's, ACO's and other applicable directives to allow TAOC crews to brief and execute the plan.			
2	Develop an exercise specific SAAWC crew (Crew Chief, Plotters, GBAD Rep, FW Rep, and Intel Rep) and delineate their responsibilities IAW the squadron SOP's.			
3	Develop the SAAWF requirements/layout IAW SAAWC direction.			
4	Identify and plan the SAAWF communications requirements.			
5	Conduct a detailed time-distance analysis to determine CAP manning/Strip Alert requirements for Fighter aircraft allocated to the Destruction Area.			
6	Conduct detailed tanker planning to correspond to the fighter plan.			
7	Conduct coordination with subordinate, adjacent and higher units for connectiveity/critical information flow requirements, direction and dissemination of individual unit/agency responsibility.			
8	Conduct the detailed planning for the integration of MACCS AAW/C3 Agencies (AEW and TACS/NTDS).			
9	Develop plan in preparation for assuming the ATACC role.			
10	Conduct a SAAWC brief develop IAW the pertinent air operations information received via a MACG Commanders brief, the SAAWC's direction and applicable orders.			
11	Conduct interface between the TAOC crew and required external agencies to ensure effective/timely flow of critical air defense/airspace management information.			
12	Effectively manage the SAAWC Staff/facility IAW the SAAWC's direction.			

COMMENTS: _____
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(MARINE'S INITIALS)_____ (EVALUATOR'S INITIALS) _____

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(EVALUATOR'S SIGNATURE)_____

TAOC - AICI

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Conduct a comprehensive flight brief with the AIC prior to controlling the mission.			
2	Monitor the AIC during the mission focusing on evaluating the students performance for debriefing purposes.			
3	Ensure safety of flight considerations are adhered to by the AIC.			
4	Conduct a comprehensive debrief focusing on air control comm and tactical lessons learned.			

COMMENTS: _____
_____
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_____.

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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(MARINE’S INITIALS)_____ (EVALUATOR’S INITIALS) _____

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(EVALUATOR’S SIGNATURE)_____

TAOC - MISSILE CONTROLLER - GROUND BASED AIR DEFENSE

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Brief the MC portion of the TAOC crew brief IAW the TAOC Pocket Checklist.			
2	Ensure all related DB entries are entered and correct.			
3	Maintain an accurate/critical information flow to the FU via the appropriate net.			
4	Conduct simultaneous assignments between two FUs against a credible air threat.			
5	Ensure effective cross-boundary coordination between engagement zones IAW the SWD's direction.			
6	Disseminate appropriate WCS, ADWC, and SOA to the FUs.			
7	Perform appropriate OS functions.			

COMMENTS: _____
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_____.

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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(MARINE'S INITIALS)_____ (EVALUATOR'S INITIALS) _____

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(EVALUATOR'S SIGNATURE)_____

TAOC - AIR INTERCEPT CONTROLLER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Ensure all AIC related DB entries are entered and correct.			
2	Initiate and employ TADIL-C/Link 4A as briefed.			
3	Utilize briefed GCI procedures to control CAP aircraft using Broadcast/Tactical control methods.			
4	Ensure effective cross-boundary coordination between engagement zones IAW SWD's direction.			
5	Disseminate the current threat status and appropriate WCS, ADWC, and SOA to the fighters.			
6	Utilization of an AWC.			
7	Perform appropriate VFS/OS functions.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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(EVALUATOR'S SIGNATURE)_____

TAOC - ASSISTANT WEAPONS CONTROLLER

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Entering all DB items required for the mission.			
2	Symbol management to include assignments, join-ups, and TADIL-C/Link 4A functions.			
3	Update all aircraft information in the ADS-1 display.			
4	Provide AIC with following threat information: - Number of groups - Target altitude - Target heading - Formation and tactics - Target aspect (hot, cold, capping, etc.)			
5	Update threat ranking as directed.			
6	Advise the AIC of any items affecting flight safety, i.e. factor traffic/airspace boundaries.			
7	All applicable function in the AT/WPS FFS.			
8	In the event of an emergency, be prepared to assist the AIC to successfully complete the squadron SOP checklist.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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(EVALUATOR’S SIGNATURE)_____

TAOC - SURVEILLANCE OPERATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Enter all appropriate Surveillance DB entries to include: - Local/Remote radars - Special points or corridors - IFF/SIF codes - Auto ID parameters - Applicable map/overlay features			
2	Execute briefed ID and classification procedures to include: - Correlating SIF codes with published directives. - Interrogate Mode IV and post results as required. - Adhering to the published ID criteria/ROE when evaluating unknown tracks. - Timely classification of tracks IAW SIDs direction.			
3	Symbol management focusing on data entry/updating, classification of tracks and dual track resolution.			
4	Conduct manual crosstell as directed.			
5	Compile and forward any applicable reports.			
6	Operating in a data link environment.			
7	Respond to data link orders as directed by the DLC/SID.			
8	Assist the DLC/SID with link management functions as directed.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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(EVALUATOR’S SIGNATURE)_____

TAOC - DATA LINK COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	Brief the link critical information during the TAOC crew brief.			
2	Ensure data link DB entries are entered and correct.			
3	Ensure TAOC data link equipment is set up/keyed.			
4	Ensure required DL filters are entered and activated.			
5	Perform link trouble shooting and take corrective action as required.			
6	Perform link management functions IAW the SID's direction.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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(EVALUATOR'S SIGNATURE)_____

TAOC - TACTICAL AIR TRAFFIC COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	SAT	UNSAT	N/A
1	Local operating procedures to include: - Emergency - Search and Rescue (SAR) - Warning/Restricted Areas			
2	Local check in procedures and proper use of air control communications.			
3	Providing inflight following with an emphasis on traffic deconfliction.			
4	TADIL-C/Link 4A initialization and usage with all capable aircraft.			
5	Proper symbology management until a handover is accomplished.			
6	Enter and maintain the Traffic DB IAW the STD's directions.			
7	RIO aircraft, to include a SALT brief.			
8	Conduct SIF/Mode IV checks on all applicable aircraft.			
9	Initiate and maintain TADIL-C/Link 4A for all capable aircraft until a handover is accomplished, as directed.			
10	Conduct external/internal handovers of all aircraft as required.			
11	Coordinate Aerial Refueling (AR) operations. - Place tanker on the appropriate track and provide flight following as required. - Execute the Slide/Retrograde plan as the threat dictates or by the direction of the STD. - Maintain tanker fuel giveaway. - Vector aircraft to the tanker and continue to monitor the fuel state of the enroute aircraft. - Coordinate Aerial Refueling (AR) operations. - Place tanker on the appropriate track and provide flight following as required. - Execute the Slide/Retrograde plan as the threat dictates or by the direction of the STD. - Maintain tanker giveaway, fuel. - Vector aircraft to the tanker and continue to monitor the fuel state of the enroute aircraft.			
12	Vector aircraft departing the tanker to a fragged, or coordinated control point (CP) and initiate a handover to the aircraft's terminal controller.			
13	Maintain proper symbol management.			

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
14	Maintain appropriate logs.			
15	Assist the STD as required in traffic management functions.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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(EVALUATOR’S SIGNATURE)_____

TAOC - SYSTEM CONFIGURATION COORDINATOR

DATE:_____

NAME:_____ RANK:_____ SSN:_____ MOS:_____

EVALUATOR:_____ BILLET:_____ EXERCISE:_____

	STANDARD(S):	**SAT**	**UNSAT**	**N/A**
1	System set up and initialization.			
2	Keying of all crypto.			
3	Appropriate DB is loaded.			
4	Ability to trouble shoot and fault isolate the components of the seven major equipment groups of the TAOC to the LRI and take appropriate actions on all operator alerts, OCU errors, and printer codes.			
5	Knowledge and skills necessary to ensure continuity of operations by reconfiguring the system around faulted units.			
6	Maintaining all SCC/crew maintenance logs.			
7	Proper pack up of the TAOM and all associated equipment.			
8	Staging and loading of the TAOM/ECU pallets.			
9	Off loading and placement of the TAOM/ECU pallets.			
10	Unpacking of the TAOM/ECU pallets and the set up and cabling of equipment to include external communications and RADAR.			
11	Correctly cable the CBR.			
12	Set up TAOM and pallet assembly for NBC operations.			
13	Activate/deactivate CBR equipment.			
14	Remove and packup CBR equipment.			
15	Brief the system configuration portion of the TAOC crew brief IAW the TAOC PCL.			

COMMENTS: _____
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QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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(EVALUATOR’S SIGNATURE)_____

ATC EVALUATION

1. Event: (Number) _____

2. TASK: (enter the T&R Syllabus task)
_____
_____
_____
_____.

3. CONDITION(s): (enter the T&R condition for the Event)
_____
_____
_____.

4. STANDARD(S): (enter the T&R Standard(s) and how they were met for the Event)
_____
_____
_____.

5. PREREQUISITE(S) MET: Evaluator Int:_____

6. ADDITIONAL COMMENTS:
_____
_____
_____.

_____ _____
Evaluators Signature Date SNM's Signature Date

_____
Detachment Commander/ATC Facility Officer Date