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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
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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.

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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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AIR SUPPORT CONTROL OFFICER (ASCO)
(MOS 7208)

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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

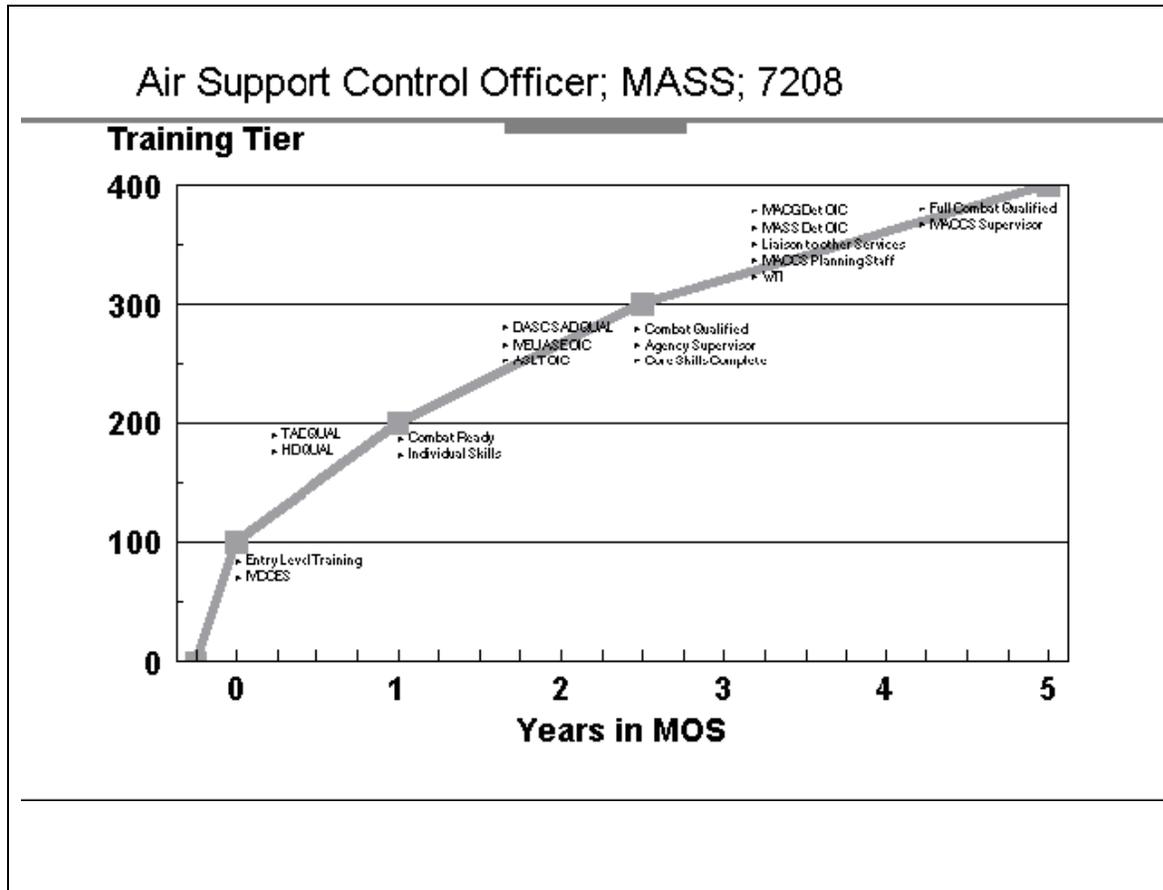
1. The Training Progression Model for the Air Support Control Officer is depicted in figure 10.1.

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

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
9	AIR SUPPORT CONTROL OFFICERS COURSE (ASCOC)/ COMBAT CAPABLE	MCCES

2. TRANSITION AIR SUPPORT CONTROL OFFICER

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
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

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
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

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
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.

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
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 Anti-air 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	
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	
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/ <u>SAM-XXX</u>	2/ <u>0.5</u>	3/ <u>T,C,R, E</u>	4/ <u>EQUIP</u>	5/ <u>L/S (NS)</u>	6/ <u>L/S (NS)</u>
-----------------------------	-------------------------	------------------------------	---------------------------	------------------------------	------------------------------

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:

<u>NUMBER</u>	<u>MCI COURSE</u>
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:

<u>NUMBER</u>	<u>MCI COURSE</u>
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.

PREREQUISITE(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. **EVENT UPDATE CHAINING.** 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	

T&R MANUAL, VOLUME 5

DIRECT AIR SUPPORT CENTER (DASC) CREW CHIEF
(MOS 7242)

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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.

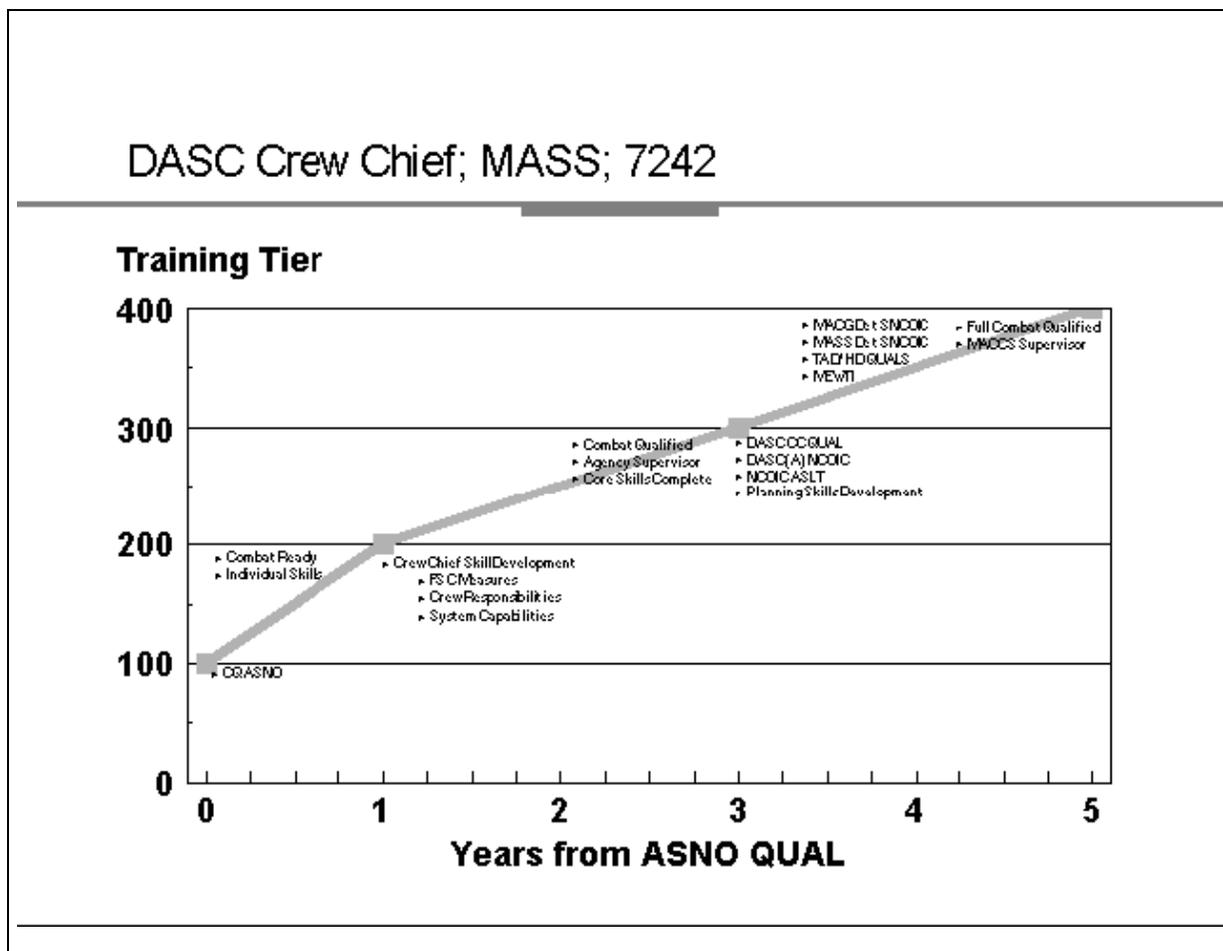


FIGURE 11.1 -- DASC CREW CHIEF TRAINING PROGRESSION MODEL

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

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
108	AIR SUPPORT NET OPERATOR (ASNO)/ COMBAT QUALIFIED	MASS

2. REFRESHER DASC CREW CHIEF

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
12	CREW CHIEF/ COMBAT QUALIFIED	MASS

3. CONVERSION DASC CREW CHIEF

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
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.

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
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.

<u>COURSE</u>	<u>ACTIVITY</u>
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 (WTP)
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/ SAM-XXX	2/ 0.5	3/ T,C,R, E	4/ EQUIP	5/ L/S (NS)	6/ 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:

<u>NUMBER</u>	<u>MCI COURSE</u>
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/maintenance 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.

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	
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AIR SUPPORT NET OPERATOR (ASNO)
(MOS 7242)

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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.

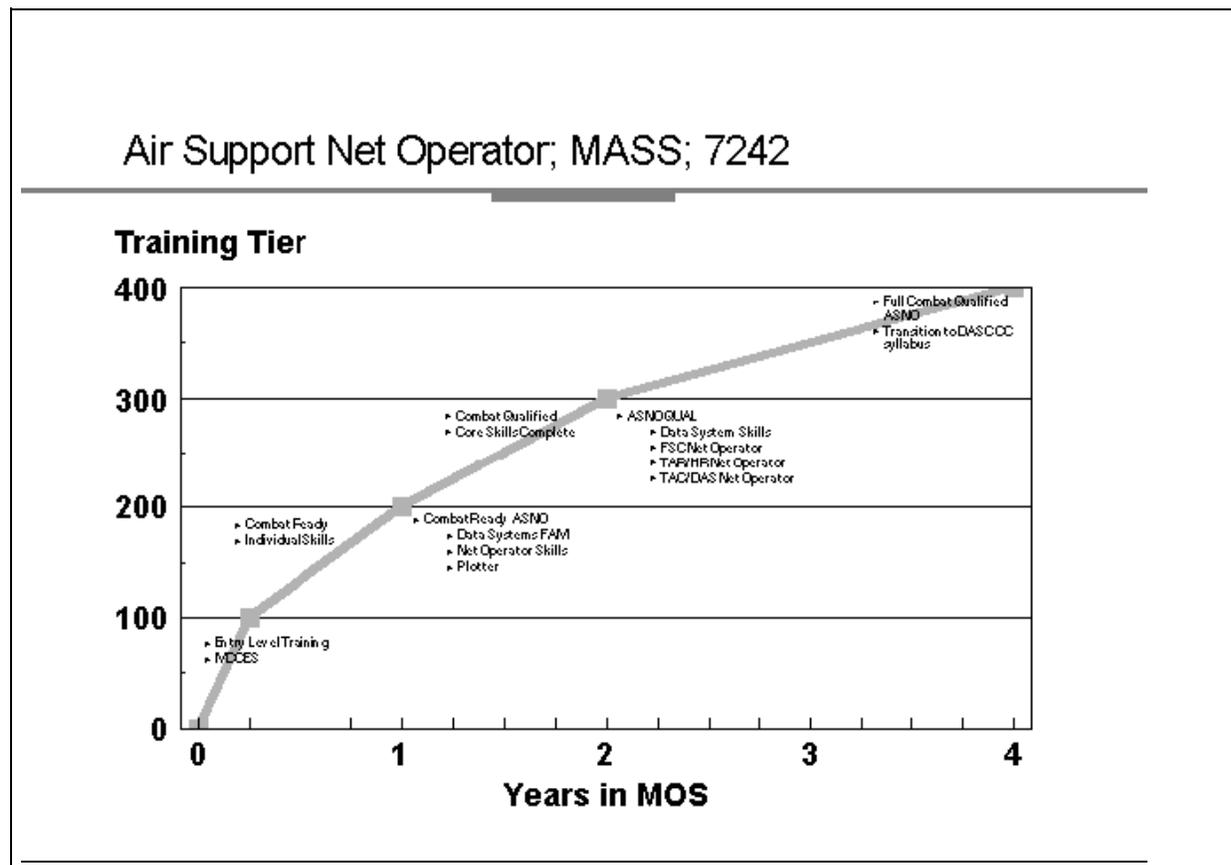
3. The Combat Capable tier (100 level) will in most cases be accomplished at the completion of initial MOS skills training. With successful completion of the combat capable tier, unit personnel are assigned basic MOS qualification and progress to the Combat Ready tier.

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

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
9	AIR SUPPORT OPERATIONS	MCCES

OPERATORS COURSE (ASOOC)/
COMBAT CAPABLE

2. **TRANSITION AIR SUPPORT NET OPERATOR**

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
26	AIR SUPPORT NET OPERATOR (ASNO)/ COMBAT CAPABLE	MASS

3. **REFRESHER AIR SUPPORT NET OPERATOR**

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
10	AIR SUPPORT NET OPERATOR (ASNO)/ COMBAT QUALIFIED	MASS

4. **CONVERSION AIR SUPPORT NET OPERATOR**

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
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.

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
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 <ul style="list-style-type: none"> • 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
B-07	MACCS Agencies	MAWTS-1
B-08	• TACC	MAWTS-1
B-10	• TAOC	MAWTS-1
B-11	• ATC Detachment	MAWTS-1
B-12	• LAAD Bn	MAWTS-1
B-13	• Air Defense Detachment	MAWTS-1
	• MWCS	

(*) 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.

<u>COURSE</u>	<u>ACTIVITY</u>
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:

<u>TITLE</u>	
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. <u>REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS</u>			
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/ <u>SAM-XXX</u>	2/ <u>0.5</u>	3/ <u>T,C,R, E</u>	4/ <u>EQUIP</u>	5/ <u>L/S (NS)</u>	6/ <u>L/S (NS)</u>
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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/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.

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

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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			

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

	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: _____

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) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: <ul style="list-style-type: none"> - 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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

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) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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			

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

	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) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

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) _____

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(EVALUATOR'S SIGNATURE) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

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) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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			

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

	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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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			

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

	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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: <ul style="list-style-type: none"> - 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			

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

	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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

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) _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____
_____.

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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(EVALUATOR'S SIGNATURE) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

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) _____

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(EVALUATOR'S SIGNATURE) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

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) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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			

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

14	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: <ul style="list-style-type: none"> - 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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

_____.

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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			

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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 _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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			

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

14	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: <ul style="list-style-type: none"> - 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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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			

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

15	Exercise authority, as may be delegated by the ACE commander, SWO, and SAC, to: <ul style="list-style-type: none"> - 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 _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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 - Weaponing 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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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			

T&R MANUAL, VOLUME V
ENCLOSURE 1

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

"I HAVE SEEN THIS EVALUATION AND BEEN DEBRIEFED ON MY PERFORMANCE."

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(EVALUATOR'S SIGNATURE) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: <ul style="list-style-type: none"> - 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			

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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 commander'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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

_____.

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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NECESSARY FOR QUALIFICATION IN THE AFOREMENTIONED BILLET."

(EVALUATOR'S SIGNATURE) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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 connectivity/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: _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

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) _____

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"I CERTIFY THAT THE ABOVE NAMED MARINE HAS COMPLETED THE REQUIREMENTS
NECESSARY FOR QUALIFICATION IN THE AFOREMENTIONED BILLET."

(EVALUATOR'S SIGNATURE) _____

T&R MANUAL, VOLUME V
ENCLOSURE 1

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: _____

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) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

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) _____

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(EVALUATOR'S SIGNATURE) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

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) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

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) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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(EVALUATOR'S SIGNATURE) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

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) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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.			

T&R MANUAL, VOLUME V
ENCLOSURE 1

	STANDARD(S) :	SAT	UNSAT	N/A
14	Maintain appropriate logs.			
15	Assist the STD as required in traffic management functions.			

COMMENTS: _____

_____.

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____
_____.

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(EVALUATOR'S SIGNATURE) _____

**T&R MANUAL, VOLUME V
ENCLOSURE 1**

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: _____

QUAL RECOMMENDATION: Y / N / NA, IF NO, EXPLAIN _____

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(EVALUATOR'S SIGNATURE) _____

T&R MANUAL, VOLUME V

ENCLOSURE 1

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