

TRAINING & READINESS SUPPLEMENT
FACILITY WATCH OFFICER
(ENLISTED)



Air Traffic Control Facility
4 Oct 2019

This supplement includes Lesson Topic Guides (LTGs) and Local Qualification Standards (LQSs) for Marine Corps Air Station Cherry Point as required by ATC NATOPS and NAVMC 3500.94B, Chapter 7, Training & Readiness Manual.

The LTGs detail the reference materials and discussion items that support the Knowledge, Skills and Abilities (KSAs) that must be satisfactorily completed in order to assign the applicable qualification or designation. The LQSs are divided into KSAs. The time allowed to complete this T&R Supplement is defined by the ATC Facility Manual and shall not exceed the requirements of the T&R Directive. The actual completion data for each position qualification, to include total number of days and total number of hours, shall be collected and analyzed by the facility's training branch. These data support Continuous Process Improvement within the facility and aid in projects and planning at the regional level.

Knowledge is checked with a written test. All Knowledge tests shall be completed with a minimum passing score of 80% prior to the trainee reaching 25% of the established OJT time limit. Skills and Abilities may be accomplished through OJT or simulation and shall be marked appropriately. LTGs and LQSs written in black are those required by the T&R Directive, those written in red are supplemental information specifically for MCAS Cherry Point.

The following events are included in this supplement and taught in the associated Lesson Plan:

Event	Description
ACAD-0551	Discuss the roles and responsibilities of the Training Chief and the training process.
ACAD-0552	Discuss the roles and responsibilities of the Tower Chief.
ACAD-0553	Discuss the roles and responsibilities of the Radar Chief.
ACAD-0554	Discuss aspects of facility management.
ACAD-0555	Discuss the roles and responsibilities of the ATC Facility Officer.
ACPM-8001	Marine Command and Control System
ACPM-8002	Tactical Air Command Center
ACPM-8003	Direct Air Support Center
ACPM-8004	Tactical Air Operations Center
ACPM-8005	Marine Air Traffic Control
ACPM-8006	Low Altitude Air Defense
ACPM-8007	Marine Unmanned Aerial Vehicles
ACPM-8008	Marine Wing Communications Squadron
ACPM-8021	Aviation Operations
ACPM-8022	Control of Aircraft and Missiles
ACPM-8023	Offensive Air Support
ACPM-8024	Assault Support
ACPM-8025	Air Reconnaissance
ACPM-8026	Electronic Warfare
ACPM-8027	Anti-air Warfare
ACPM-8028	Aviation Ground Support
ACPM-8041	Surface to Air Threat to the MAGTF
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Section II Aviation Career Progression

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Section III Progression Benchmarks

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FWO 1 - DUTIES OF THE TRAINING CHIEF (ACAD-0551)

Goal. Discuss the roles and responsibilities of the Training Chief and the training process.

Lesson Topic Guide

Requirement. During a guided discussion, and after reviewing the references, identify and discuss the following:

1. Roles and responsibilities of the facility Training Chief.
2. Facility training program requirements.
3. Indoctrination program.
4. Records maintenance.
5. Controller Evaluation Boards.
6. MOS revocation process.
7. On-the-Job Training Process.
8. MATC Training and Readiness manual and reporting.

Local Qualification Standards

Knowledge. The instructor will question and mentor the trainee throughout the discussion.

Skills and Abilities. NA

Individual has satisfactorily completed all LQS requirements for FWO 1:

Date: _____

Trainee: _____

Signature: _____

FWO/Crew Chief Signature _____

FWO 2 - DUTIES OF THE TOWER CHIEF (ACAD-0552)

Goal. Discuss the roles and responsibilities of the Tower Chief.

Lesson Topic Guide

Requirement. During a guided discussion, and after reviewing the references, identify and discuss the following:

1. Roles and responsibilities of the Tower Chief.
2. Directives maintenance.
3. Equipment maintenance checklists and logs.
4. Operational continuity.
5. Qualification process.
6. Currency management.
7. Relation to Tower Supervisors.

Local Qualification Standards

Knowledge. The instructor will question and mentor the trainee throughout the discussion.

Skills and Abilities. NA

Individual has satisfactorily completed all LQS requirements for FWO 2:

Date: _____

Trainee: _____ Signature: _____

FWO/Crew Chief Signature _____

FWO 3 - DUTIES OF THE RADAR CHIEF (ACAD-0553)

Goal. Discuss the roles and responsibilities of the Radar Chief.

Lesson Topic Guide

Requirement. During a guided discussion, and after reviewing the references, identify and discuss the following:

1. Roles and responsibilities of the Radar Chief.
2. Directives maintenance.
3. Equipment maintenance checklists and logs.
4. Ensuring operational continuity.
5. Qualification process.
6. Currency management.
7. Supervision of flight inspections.
8. Relation to Radar Supervisors.

Local Qualification Standards

Knowledge. The instructor will question and mentor the trainee throughout the discussion.

Skills and Abilities. NA

Individual has satisfactorily completed all LQS requirements for FWO 3:

Date: _____

Trainee: _____

Signature: _____

FWO/Crew Chief Signature _____

FWO 4 - ASPECTS OF FACILITY MANAGEMENT (ACAD-0554)

Goal. Discuss aspects of facility management.

Lesson Topic Guide

Requirement. During a guided discussion, and after reviewing the references, identify and discuss the following:

1. ATC Facility classification standard.
2. Requirement for, and details of, Letters of Agreement.
3. Requirement for, and details of, Memorandums of Agreement.
4. Facility Logs.
5. Personnel management.
6. Medical Certifications.
7. Procedures Evaluation Boards.
8. Facility operation.
9. Procedures following accidents/incidents.

Local Qualification Standards

Knowledge. The instructor will question and mentor the trainee throughout the discussion.

Skills and Abilities. NA

Individual has satisfactorily completed all LQS requirements for FWO 4:

Date: _____

Trainee: _____

Signature: _____

FWO/Crew Chief Signature _____

FWO 5 - DUTIES OF THE ATC FACILITY OFFICER (ACAD-0553)

Goal. Discuss the roles and responsibilities of the ATC Facility Officer.

Lesson Topic Guide

Requirement. During a guided discussion, and after reviewing the references, identify and discuss the following:

1. Roles and responsibilities of the ATCFO.
2. Relationships with higher and adjacent commands.
3. Relationship with the ATCF SNCOIC.

Local Qualification Standards

Knowledge. The instructor will question and mentor the trainee throughout the discussion.

Skills and Abilities. NA

Individual has satisfactorily completed all LQS requirements for FWO 5:

Date: _____

Trainee: _____

Signature: _____

FWO/Crew Chief Signature _____

AVIATION OPERATIONS - ACPM-8021

Lesson Topic Guide

GOAL. Demonstrate an understanding of USMC aviation operations doctrine.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the six functions of Marine Aviation to include all their subsets.
2. Identify the organization and mission of the Marine Air Wing to include each type of group and squadron.
3. Identify the purpose of the air tasking order.
4. Identify the six phases of the air tasking cycle.

INSTRUCTOR. BI, SI, WTI

REFERENCE. MCWP 3-2 Aviation Operations

CONTROL OF AIRCRAFT AND MISSILES - ACPM-8022

Lesson Topic Guide

GOAL. Demonstrate an understanding of the USMC doctrine for the control of aircraft and missiles.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the principal objectives of the MACCS.
2. Describe how the control of aircraft and missiles serves as the integrating function.
3. Describe distinctions between Marine Aviation philosophy and that of the other services.
4. Describe the methods of airspace control.
5. Describe how the COMMARFOR may serve as the JFACC, ACA, and AADC.
6. Describe the airspace coordination measures commonly employed by the MAGTF.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL

1. MAWTS-1 Control of Aircraft and Missiles Class
2. MAWTS-1 (U) Media site video

REFERENCE. MCWP 3-25 Control of Aircraft and Missiles.

OFFENSIVE AIR SUPPORT - ACPM-8023

Lesson Topic Guide

GOAL. Demonstrate an understanding of USMC offensive air support (OAS) doctrine.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the purpose of the MAGTF Commanders Single Battle Concept.
2. Define the sub-categories of Offensive Air Support.
3. Discuss the requirements for effective offensive air support.
4. Define the three types of deep air support.
5. Define the capabilities and limitations that the OAS function offers.
6. Identify the elements of a Joint Tactical Air Strike Request.
7. Identify the three types of control of close air support.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL. MAWTS-1 OAS Class

REFERENCE. MCWP 3-23 OAS

ASSAULT SUPPORT - ACPM-8024

Lesson Topic Guide

GOAL. Demonstrate an understanding of assault support.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Describe and identify the sub-categories of Assault Support.
2. Identify which aircraft conduct each of the sub-categories.
3. Identify the elements of an Assault Support Request.
4. Describe the roles of the air mission commander and helicopterborne unit commander during helicopterborne assaults.
5. Describe assault support capabilities and limitations.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL. MAWTS-1 Assault Support Class

REFERENCE. MCWP 3-24 Assault Support

AIR RECONNAISSANCE - ACPM-8025

Lesson Topic Guide

GOAL. Demonstrate an understanding of USMC air reconnaissance doctrine.

REQUIREMENT. Conduct a self paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Describe the three categories of air reconnaissance.
2. Identify the principals of air reconnaissance.
3. Identify the prerequisites for effective air reconnaissance.
4. Identify the current Marine Corps aircraft that have the mission of air reconnaissance.
5. Describe how air reconnaissance missions are tasked.
6. Describe the supporting requirement for effective air reconnaissance.
7. Identify the current sensors in the Marine Corps inventory and their capabilities.

INSTRUCTOR. BI, SI, WTI

REFERENCE. MCWP 3-26 Air Reconnaissance

ELECTRONIC WARFARE - ACPM-8026

Lesson Topic Guide

GOAL. Demonstrate an understanding of USMC electronic warfare doctrine.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the definitions of Electronic Warfare (EW), Electronic Attack (EA), Electronic Protect (EP), and Electronic Warfare Support (ES).
2. State which units in the Marine Corps have the primary responsibility of conducting EW and the EW tasks they perform.
3. Describe the role of the Electronic Warfare Coordination Cell.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL

1. MAWTS-1 (S) Electronic Warfare Class
2. MAWTS-1 (S) Media site video <http://www.mawts1.usmc.smil.mil>

REFERENCE. MCWP 3-40.5 Electronic Warfare

ANTI-AIR WARFARE - ACPM-8027

Lesson Topic Guide

GOAL. Demonstrate an understanding of USMC antiair warfare doctrine.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define antiair warfare and its two basic types.
2. Describe the principals of antiair warfare.
3. Describe the types of offensive antiair warfare missions.
4. Identify the active air defense tasks.
5. Provide three examples of passive air defense measures.
6. Define a Joint engagement zone, fighter engagement zone, missile engagement zone, and a base defense zone.
7. Define the air defense warning conditions.
8. Define the weapons control statuses.
9. Identify the responsibilities of the Regional Air Defense Commander and the Sector Air Defense Commander.

INSTRUCTOR. BI, SI, WTI

REFERENCE. MCWP 3-22 Antiair Warfare

AVIATION GROUND SUPPORT - ACPM-8028

Lesson Topic Guide

GOAL. Demonstrate an understanding of USMC aviation ground support doctrine.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the fourteen functions of AGS.
2. Identify the five activities that the MWSS performs for the ACE when deployed.
3. Identify the four classifications of Forward Operating Base (FOB) and state the distinguishing characteristics of each.
4. Identify the mission of the MWSS.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL

1. MAWTS-1 AGS Class
2. MAWTS-1 (U) Media site video

REFERENCE. MCWP 3-21.1 Aviation Ground Support

SURFACE TO AIR THREAT TO THE MAGTF - ACPM-8041

Lesson Topic Guide

GOAL. Demonstrate an understanding of the surface to air threat to the MAGTF.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the capabilities of the SA-2
2. Identify the capabilities of the SA-6
3. Identify the capabilities of the SA-7
4. Identify the capabilities of the SA-8
5. Identify the capabilities of the SA-10
6. Identify the capabilities of the SA-11
7. Identify the capabilities of the SA-14
8. Identify the capabilities of the SA-15
9. Identify the capabilities of the SA-16
10. Identify the capabilities of the SA-18
11. Identify the capabilities of the Roland II

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL

1. MAWTS-1 (S) Surface to Air Threat to the MAGTF Class.
2. MAWTS-1 (S) Media site video.
3. Air Force Tactics Techniques and Procedures 3-1 Threat Guide.

REFERENCE. MAWTS-1 Marine Aviation Intelligence Reference.

FIXED WING THREAT TO THE MAGTF - ACPM-8042

GOAL. Demonstrate an understanding of the fixed wing threat to the MAGTF.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the role of the AN-2 Colt
2. Identify the role of the F-8 Finback
3. Identify the role of the An-12 Cub
4. Identify the role of the MIG-23 Flogger
5. Identify the role of the MIG-25 Foxbat
6. Identify the role of the MIG-29 Fulcrum
7. Identify the role of the MIG-31 Foxhound
8. Identify the role of the Su-24 Fencer
9. Identify the role of the Su-25 Frogfoot
10. Identify the role of the Su-27 Flanker
11. Identify the role of the Tu-26 Backfire
12. Identify the role of the Tu-95 Bear
13. Identify the role of the Tu-160 Blackjack
14. Identify the role of the F-7 Fishbed

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL

1. MAWTS-1 (S) Fixed Wing Threat to the MAGTF Class
2. MAWTS-1 (S) Media site video
3. Air Force Tactics Techniques and Procedures 3-1 Threat Guide

REFERENCE. MAWTS-1 Marine Aviation Intelligence Reference.

ROTARY WING THREAT TO THE MAGTF - ACPM-8043

GOAL. Demonstrate an understanding of the rotary wing threat to the MAGTF.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the role of the Mi-24 Hind
2. Identify the role of the SA 342 Gazelle
3. Identify the role of the Ka-25 Harmone
4. Identify the role of the Mi-6 Hook
5. Identify the role of the Mi-28 Havoc
6. Identify the role of the Mi-8 Hip
7. Identify the role of the Ka-50 Kokum
8. Identify the role of the Ka-29 Helix B

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL

1. MAWTS-1 (S) Rotary Wing Threat to the MAGTF Class
2. MAWTS-1 (S) Media site video
3. Air Force Tactics Techniques and Procedures 3-1 Threat Guide

REFERENCE. MAWTS-1 Marine Aviation Intelligence Reference.

MISSILE AND UAS THREAT TO THE MAGTF - ACPM-8044

GOAL. Demonstrate an understanding of the missile and UAS threat to the MAGTF.

REQUIREMENT. Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the capabilities of the Ababil 2
2. Identify the capabilities of the Ababil 3
3. Identify the capabilities of the ASN-105, -105B
4. Identify the capabilities of the ASN-206
5. Identify the capabilities of the Pchela-1T
6. Identify the capabilities of the C-801
7. Identify the capabilities of the C-802
8. Identify the capabilities of the AS-10 Karen
9. Identify the capabilities of the AS-11 Kilter
10. Identify the capabilities of the AS-12 Kegler
11. Identify the capabilities of the AS-14 Kedge

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL

1. MAWTS-1 (S) Missile and UAS Threat to the MAGTF Class
2. MAWTS-1 (S) Media site
3. Air Force Tactics Techniques and Procedures 3-1 Threat Guide

REFERENCE

1. MAWTS-1 Marine Aviation Intelligence Reference.
2. Marine Corps Intelligence Activity Iran Country Handbook (appendix A)
3. Marine Corps Intelligence Activity North Korea (page 86)
4. Marine Corps Intelligence Activity China

1. Facility Watch Officer.

RECORD OF COMPLETION			
Task	T&R Event	Completion Date	OJTI Initials
Training Chief Duties	ACAD-0551		
Tower Chief Duties	ACAD-0552		
Radar Chief Duties	ACAD-0553		
Facility Management	ACAD-0554		
Facility Officer Duties	ACAD-0555		
Aviation Operations	ACPM-8021		
Control of Aircraft and Missiles	ACPM-8022		
Offensive Air Support	ACPM-8023		
Assault Support	ACPM-8024		
Air Reconnaissance	ACPM-8025		
Electronic Warfare	ACPM-8026		
Anti-Air Warfare	ACPM-8027		
Aviation Ground Support	ACPM-8028		
Surface to Air Threat to the MAGTF	ACPM-8041		
Fixed Wing Threat to the MAGTF	ACPM-8042		
Rotary Wing Threat to the MAGTF	ACPM-8043		
Missile and UAS Threat to the MAGTF	ACPM-8044		

MACCS QUALIFICATION FORM

The MACCS T&R qualification form is used to document all event training that results in a qualification. The qualification form is a tool that provides the evaluator a medium to document a trainee's qualification skill check. Both the trainee and evaluator will sign this form. The WTTP Section will ensure this form is administratively correct and logged in M-SHARP.

Trainee Rank / Name:	Billet:
Exercise / Operation:	Date:
Evaluator's Rank/Name:	Evaluator's Billet / DESG:

T&R Event Codes	U	1	2	3	4	Comments
ACAD-0551						
ACAD-0552						
ACAD-0553						
ACAD-0554						
ACAD-0555						
ACPM-8020						
ACPM-8040						
DESG-6401						

Evaluator's Overall Comments

(Comments on the trainees overall performance to include trends and recommendations for improvement)

Legend

U = UNSAT	Unsafe or complete lack of ability and/or knowledge. Requires substantial input from the evaluator for mission accomplishment.
1	Limited proficiency, does not meet the standard. Requires frequent input from the evaluator.
2	Capable. Recognizes and corrects errors. Requires occasional input from the evaluator.
3	Proficient. Correct, efficient, skillful, and without hesitation. Requires minimal input from the evaluator.
4	Unusually high degree of ability. Requires no input from evaluator

Trainee Endorsement

Trainee Signature _____ **Date** _____
I have read and discussed this evaluation with the evaluator and I understand its contents.

Approval Process

Evaluator Signature _____ **Date** _____
I certify that the trainee has completed the training as described on this form.

OIC/SNCOIC Signature _____ **Date** _____

WTTP Signature _____ **Date** _____

Evaluation form is correct, administrative actions have been completed, and event code(s) have been logged in M-SHARP.