

TRAINING & READINESS SUPPLEMENT
FACILITY WATCH OFFICER



Air Traffic Control Facility
26 Sep 2019

Name

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 |
|-----------|----------------------------------------------------------------------------------------|
| FWO-2600 | Perform as a Tower Local Controller (TLC) . |
| FWO-2602 | Perform as the Arrival/Departure Controller (ADC) . |
| FWO-2604 | Conduct a standard ATC crew brief. |
| ACAD-0550 | Describe the duties and responsibilities applicable to supervisor positions. |
| 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. |
| ACAD-0556 | Discuss waiver request to required ATC regulations. |
| ACAD-0557 | Discuss NATOPS Evaluations. |
| 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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FWO 1 - DUTIES OF LOCAL CONTROL (FWO-2600)

Goal. Perform as a Tower Local Controller (TLC).

Requirement. Complete the following.

1. All academic training requirements in the Local Control T&R Supplement.
2. Conduct six hours of familiarization time, monitoring TLC.
3. Conduct six hours of tower simulator training.
4. Conduct six hours of training on TLC.

Performance Standard. Complete the requirement items per the references. Live training will be conducted during both day and night conditions, with at least one hour of training at night. Written exams will be closed-book.

Reference.

1. FAA JO 7110.65, Air Traffic Control.
2. NAVAIR 00-80T-114, ATC NATOPS.
3. ATC Facility Manual.

Local Qualification Standards

Knowledge. Satisfactorily complete all academic training requirements in the Local Control T&R Supplement.

Skills and Abilities.

| Skill/Ability | Date | OJTI |
|------------------------------------------------|------|------|
| 1. Conduct 6 hours of OJF on Local Control | | |
| 2. Conduct 6 hours of tower simulator training | | |
| 3. Conduct 6 hours of OJT on Local Control | | |

Individual has satisfactorily completed all LQS requirements for FWO 1:

Date: _____

Trainee: _____

Signature: _____

FWO/Crew Chief Signature _____

FWO 2 - DUTIES OF ARRIVAL/DEPARTURE CONTROL (FWO-2602)

Goal. Perform as the Arrival/Departure Controller.

Requirement. Complete the following.

1. All academic training requirements in the Arrival Control T&R Supplement.
2. Conduct six hours of familiarization time, monitoring Arrival Control.
3. Conduct six hours of tower simulator training.
4. Conduct six hours of training on Arrival Control.

Performance Standard. Complete the requirement items per the references. Written exams will be closed-book.

Reference.

1. FAA JO 7110.65, Air Traffic Control.
2. NAVAIR 00-80T-114, ATC NATOPS.
3. ATC Facility Manual.

Local Qualification Standards

Knowledge. Satisfactorily complete all academic training requirements in the Arrival Control T&R Supplement.

Skills and Abilities.

| Skill/Ability | Date | OJTI |
|------------------------------------------------|------|------|
| 1. Conduct 6 hours of OJF on Arrival Control | | |
| 2. Conduct 6 hours of radar simulator training | | |
| 3. Conduct 6 hours of OJT on Arrival Control | | |

Individual has satisfactorily completed all LQS requirements for FWO 2:

Date: _____

Trainee: _____ Signature: _____

FWO/Crew Chief Signature _____

FWO 3 - ATC CREW BRIEF (FWO-2604)

Goal. Conduct a standard ATC crew brief.

Requirement. Prior to the start of a standard watch shift, conduct a crew brief to include the following information per the references:

1. Current/forecast weather.
2. Current/projected airport conditions.
3. Equipment status.
4. New facility directives.
5. Special operations.
6. Operating position/training assignments.
7. Conduct a brief.

Reference.

1. FAA JO 7110.65, Air Traffic Control.
2. NAVAIR 00-80T-114, ATC NATOPS.
3. ATC Facility Manual.

Local Qualification Standards

Skills and Abilities.

| Skill/Ability | Date | OJTI |
|--------------------------------------|------|------|
| 1. Conduct a standard ATC crew brief | | |

Individual has satisfactorily completed all LQS requirements for FWO 3:

Date: _____

Trainee: _____ Signature: _____

FWO/Crew Chief Signature _____

FWO 4 - DUTIES OF A SUPERVISOR POSITION (ACAD-0550)

Goal. Describe the duties and responsibilities applicable to supervisor positions.

Requirement. Describe the following per the references:

1. Control authority.
2. Daily operations log.
3. Operating positions.
4. Human performance and medical qualifications.
5. Use of intoxicating drugs and alcoholic beverages.
6. Blood donors.
7. Workload planning.
8. Time Standards.
9. Communications.
10. Security of facilities.
11. Incidents, mishaps, and hazards.
12. ATC Hazards (severe/routine).
13. Air Traffic Activity report.
14. Billet descriptions, USMC.
15. Workload planning.
16. FAA Form 7230-4, Daily Operations log.
17. Tower Team position responsibilities.
18. Applicable information contained in local directives.

Reference.

1. FAA JO 7110.65, Air Traffic Control.
2. FAA JO 7210.3, Facility Operation and Administration.
3. NAVAIR 00-80T-114, ATC NATOPS.
4. ATC Facility Manual.

Lesson Topic Guide

1. Control authority.
2. Daily operations log.
3. Operating positions.
4. Human performance and medical qualifications.
5. Use of intoxicating drugs and alcoholic beverages.
6. Blood donors.
7. Workload planning.
8. Time Standards.
9. Communications.
10. Security of facilities.
11. Incidents, mishaps, and hazards.
12. ATC Hazards (severe/routine).
13. Air Traffic Activity report.
14. Billet descriptions, USMC.
15. Workload planning.
16. FAA Form 7230-4, Daily Operations log.
17. Tower Team position responsibilities.
18. Applicable information contained in local directives.

Local Qualification Standards

Knowledge. Satisfactorily complete test FWO 4.

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 TRAINING CHIEF (ACAD-0551)

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

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

1. Training and standardization (USMC).
2. Suspension and revocation.
3. Roles and responsibilities of the facility Training Chief.
4. Records maintenance.
5. Controller Evaluation Boards.

Reference.

1. NAVAIR 00-80T-114, ATC NATOPS.
2. ATC Facility Manual.

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 _____

FWO 6 - DUTIES OF THE TOWER CHIEF (ACAD-0552)

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

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

1. Billet description, Control Tower Chief.
2. Relationship to Tower Supervisors.
3. Equipment maintenance checklists and logs.

Reference.

1. NAVAIR 00-80T-114, ATC NATOPS.
2. ATC Facility Manual.

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 6:

Date: _____

Trainee: _____

Signature: _____

FWO/Crew Chief Signature _____

FWO 7 - DUTIES OF THE RADAR CHIEF (ACAD-0553)

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

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

1. Billet description, Radar Chief.
2. Relationship to Radar Supervisors.
3. Equipment maintenance checklists and logs.

Reference.

1. NAVAIR 00-80T-114, ATC NATOPS.
2. ATC Facility Manual.

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 7:

Date: _____

Trainee: _____

Signature: _____

FWO/Crew Chief Signature _____

FWO 8 - ASPECTS OF FACILITY MANAGEMENT (ACAD-0554)

Goal. Comprehend aspects of facility management.

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. Facility Logs.
4. Personnel management.
5. Procedures Evaluation Boards.
6. Facility operation.
7. Incidents, mishaps and hazards.
8. Operational capability improvement request (OCIR) process.

Reference.

1. FAA JO 7110.65, Air Traffic Control
2. NAVAIR 00-80T-114, ATC NATOPS.
3. OPNAVINST 3750.6, Naval Aviation Safety Management System.
4. OPNAVINST 3721.5, Naval Air Traffic Control Air Navigation Aid and Landing Systems Program.
5. ATC Facility Manual.

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 8:

Date: _____

Trainee: _____ Signature: _____

FWO/Crew Chief Signature _____

FWO 9 - DUTIES OF THE ATC FACILITY OFFICER (ACAD-0555)

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

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 to the ATCF SNCOIC.

Reference.

1. NAVAIR 00-80T-114, ATC NATOPS.
2. ATC Facility Manual.

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 9:

Date: _____

Trainee: _____ Signature: _____

FWO/Crew Chief Signature _____

FWO 10 - WAIVER REQUEST TO REQUIRED ATC REGULATIONS (ACAD-0556)

Goal. Discuss waiver request to required ATC regulations.

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

1. Purpose.
2. Content.
3. Justification.
4. Controlling agencies involved.
5. Distribution.
6. Applicability.
7. Alternate and safe procedures.
8. Routing process.

Reference.

1. SECNAVINST 5216.5, Correspondence Manual.
2. NAVAIR 00-80T-114, ATC NATOPS.
3. FAA JO 7110.65, Air Traffic Control.

Local Qualification Standards

Knowledge. Demonstrate an understanding of the steps in the requirement. The instructor will question and mentor the trainee throughout the discussion.

Skills and Abilities. NA

Individual has satisfactorily completed all LQS requirements for FWO 10:

Date: _____

Trainee: _____ Signature: _____

FWO/Crew Chief Signature _____

FWO 11 - NATOPS EVALUATIONS (ACAD-0557)

Goal. Discuss NATOPS evaluations.

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

1. Air Traffic Control NATOPS program.
2. Unit NATOPS evaluation.
3. Evaluation Team.
4. Schedule.
5. Orientation briefing.
6. Competency testing/evaluation.
7. Definitions.
 - a. Finding.
 - b. Discrepancy.
 - c. Commendatory.
8. Reports.
9. Inspection Checklist.

Reference.

1. NAVAIR 00-80T-114, ATC NATOPS.

Local Qualification Standards

Knowledge. Demonstrate an understanding of the steps in the requirement. The instructor will question and mentor the trainee throughout the discussion.

Skills and Abilities. NA

Individual has satisfactorily completed all LQS requirements for FWO 11:

Date: _____

Trainee: _____

Signature: _____

FWO/Crew Chief Signature _____

MARINE AIR COMMAND AND CONTROL SYSTEM (MACCS) - ACPM-8001

Lesson Topic Guide

GOAL. Demonstrate an understanding of the Marine Air Command and Control System (MACCS).

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

1. Describe how the control of aircraft and missiles relates to the other five functions of USMC aviation.
2. Define the control of aircraft and missiles and each of its subcomponents.
3. Define the Marine aviation's philosophy of centralized command and decentralized control.
4. Differentiate between Marine aviation philosophy and Joint aviation philosophy.
5. Identify the principle objectives of the MACCS.
6. Recall the primary role of each agency of the MACCS.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL. MAWTS-1 MACCS Agencies, Functions and the Control of Aircraft and Missiles Class

REFERENCE

1. MCWP 3-25.3 MACCS Handbook
2. MCWP 3-25 Control of Aircraft and Missiles

Local Qualification Standards

KNOWLEDGE. Satisfactorily complete test ACPM-8001.

Individual has satisfactorily completed all LQS requirements for ACPM-8001:

Date: _____

Trainee: _____

Signature: _____

Instructor Signature _____

TACTICAL AIR COMMAND CENTER (TACC) - ACPM-8002

Lesson Topic Guide

GOAL. Demonstrate an understanding of the Tactical Air Command Center (TACC).

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

1. State the mission of the TACC.
2. Identify the four organizations of the TACC.
3. List the primary responsibilities of Air Combat Intelligence (ACI).
4. List the primary responsibilities of Future Operations (FOPS).
5. List the primary responsibilities of Future Plans (FPLANS).
6. List the primary responsibilities of Current Operations (COPS).
7. List the major end items used by the TACC.
8. List the system limitations of the TACC.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL

1. MAWTS-1 TACC Class
2. MAWTS-1 MTACS Class

REFERENCE. MCWP 3-25.4 TACC Handbook

Local Qualification Standards

KNOWLEDGE. Satisfactorily complete test ACPM-8002.

Individual has satisfactorily completed all LQS requirements for ACPM-8002:

Date: _____

Trainee: _____

Signature: _____

Instructor Signature _____

DIRECT AIR SUPPORT CENTER (DASC) - ACPM-8003

Lesson Topic Guide

GOAL. Demonstrate an understanding of the Direct Air Support Center (DASC).

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 DASC.
2. List the structure and task organization of the DASC.
3. Identify the major end items and their characteristics used by the DASC.
4. List the capabilities and limitations of the DASC.
5. Identify how the DASC is doctrinally employed as part of the MACCS.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL. MAWTS-1 DASC Class

REFERENCE. MCWP 3-25.5 DASC Handbook

Local Qualification Standards

KNOWLEDGE. Satisfactorily complete test ACPM-8003.

Individual has satisfactorily completed all LQS requirements for ACPM-8003:

Date: _____

Trainee: _____

Signature: _____

Instructor Signature _____

TACTICAL AIR OPERATIONS CENTER (TAOC) - ACPM-8004

Lesson Topic Guide

GOAL. Demonstrate an understanding of the Tactical Air Operations Center (TAOC).

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

1. Define the mission of the TAOC.
2. Identify the Mission Essential Tasks (METs) for the TAOC.
3. Identify the structure and task organization of the TAOC.
4. Identify the major end items and their characteristics used by the TAOC.
5. Identify the capabilities and limitations of the TAOC.
6. Identify how the TAOC is doctrinally employed as part of the MACCS.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL. MAWTS-1 TAOC Class

REFERENCE. MCWP 3-25.7 TAOC Handbook

Local Qualification Standards

KNOWLEDGE. Satisfactorily complete test ACPM-8000.

Individual has satisfactorily completed all LQS requirements for ACPM-8000:

Date: _____

Trainee: _____ Signature: _____

Instructor Signature _____

MARINE AIR TRAFFIC CONTROL (MATC) - ACPM-8005

Lesson Topic Guide

GOAL. Demonstrate an understanding of Marine Air Traffic Control (MATC).

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

1. Identify the mission of MATC.
2. Identify the Mission Essential Tasks (METs) for MATC.
3. List the structure and task organization of MATC.
4. Identify the major end items and their characteristics used by MATC.
5. Identify the capabilities and limitations of MATC.
6. Identify how MATC is doctrinally employed as part of the MACCS.

INSTRUCTOR. BI, SI, WTI.

ACADEMIC SUPPORT MATERIAL

1. MAWTS-1 MATC Class
2. MAWTS-1 MMT Class

REFERENCE. MCWP 3-25.8 MATC Detachment Handbook

Local Qualification Standards

KNOWLEDGE. Satisfactorily complete test ACPM-8005.

Individual has satisfactorily completed all LQS requirements for ACPM-8005:

Date: _____

Trainee: _____

Signature: _____

Instructor Signature _____

LOW ALTITUDE AIR DEFENSE (LAAD) - ACPM-8006

Lesson Topic Guide

GOAL. Demonstrate an understanding of Low Altitude Air Defense (LAAD).

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

1. Identify the mission of the LAAD battalion.
2. Identify the structure and task organization of the LAAD battalion.
3. Identify the primary vehicle and surface-to-air weapon used by the LAAD battalion.
4. Define the LAAD employed guidelines.
5. List the LAAD weapon applications.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL. MAWTS-1 LAAD Class

REFERENCE

1. MCWP 3-25.10 LAAD BN Handbook
2. MCRP 3-25.10A LAAD Gunner's Handbook.

Local Qualification Standards

KNOWLEDGE. Satisfactorily complete test ACPM-8006.

Individual has satisfactorily completed all LQS requirements for ACPM-8006:

Date: _____

Trainee: _____

Signature: _____

Instructor Signature _____

MARINE UNMANNED AERIAL VEHICLE SQUADRON (VMU) - ACPM-8007

Lesson Topic Guide

GOAL. Demonstrate an understanding of Marine Unmanned Aerial Vehicle Squadron VMU.

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

1. Identify the mission of the VMU.
2. Identify the VMU Mission Essential Tasks (METs).
3. Identify the three Table of Organization (T/O) sections unique to the VMU.
4. Identify the major end items and their characteristics used by the VMU.
5. Identify the endurance, ceiling, and gross weight of the RQ-7B aircraft.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL. MAWTS-1 VMU Class Academic Support Package (ASP)

REFERENCE

1. NTPP 3-22.3 VMU
2. NAVMC 3500.34A

Local Qualification Standards

KNOWLEDGE. Satisfactorily complete test ACPM-8007.

Individual has satisfactorily completed all LQS requirements for ACPM-8007:

Date: _____

Trainee: _____

Signature: _____

Instructor Signature _____

MARINE WING COMMUNICATIONS SQUADRON (MWCS) - ACPM-8008

Lesson Topic Guide

GOAL. Demonstrate an understanding of the Marine Wing Communications Squadron (MWCS).

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

1. Identify the mission of the MWCS.
2. Identify the structure and task organization of the MWCS.
3. Identify the Mission Essential Tasks (METs) for the MWCS.
4. Identify the major end items and their characteristics used by MWCS.
5. Identify the capabilities and limitations of the MWCS.
6. Identify how the MWCS is doctrinally employed as part of the MACCS.

INSTRUCTOR. BI, SI, WTI

ACADEMIC SUPPORT MATERIAL. MAWTS-1 MWCS Class

REFERENCE

1. MCWP 3-25 Control of Aircraft and Missiles
2. MCWP 3-40.3 MAGTF Communications System (Ch 2)
3. MARCORSYSCOM Program Manager, Communications, and Networking System (PM CNS) Handbook

Local Qualification Standards

KNOWLEDGE. Satisfactorily complete test ACPM-8008.

Individual has satisfactorily completed all LQS requirements for ACPM-8008:

Date: _____

Trainee: _____ Signature: _____

Instructor 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 |
| Local Control Duties | FWO-2600 | | |
| Arrival/Departure Duties | FWO-2602 | | |
| Conduct a Crew Brief | FWO-2604 | | |
| Supervisor Duties | ACAD-0550 | | |
| Training Chief Duties | ACAD-0551 | | |
| Tower Chief Duties | ACAD-0552 | | |
| Radar Chief Duties | ACAD-0553 | | |
| Facility Management | ACAD-0554 | | |
| ATCFO Duties | ACAD-0555 | | |
| Waiver Request Process | ACAD-0556 | | |
| NATOPS Evaluations | ACAD-0557 | | |
| Marine Command and Control System | ACPM-8001 | | |
| Tactical Air Command Center | ACPM-8002 | | |
| Direct Air Support Center | ACPM-8003 | | |
| Tactical Air Operations Center | ACPM-8004 | | |
| Marine Air Traffic Control | ACPM-8005 | | |
| Low Altitude Air Defense | ACPM-8006 | | |
| Marine Unmanned Aerial Vehicles | ACPM-8007 | | |
| Marine Wing Communications Squadron | ACPM-8008 | | |
| 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 |
|-----------------|---|---|---|---|---|----------|
| FWO-2600 | | | | | | |
| FWO-2602 | | | | | | |
| FWO-2604 | | | | | | |
| ACAD-0550 | | | | | | |
| ACAD-0551 | | | | | | |
| ACAD-0552 | | | | | | |
| ACAD-0553 | | | | | | |
| ACAD-0554 | | | | | | |
| ACAD-0555 | | | | | | |
| ACAD-0556 | | | | | | |
| ACAD-0557 | | | | | | |
| ACPM-8000 | | | | | | |
| ACPM-8020 | | | | | | |
| ACPM-8040 | | | | | | |
| CERT-6500 | | | | | | |

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.