serve as the baseline learning objectives for academic training. References provided shall be used during training. Academic events are one-time events unless otherwise stated.

    b. <u>Stages</u>

        (1) TACC Generics
        (2) TACC Planning
        (3) TACC Crew Positions
        (4) MACCS Agencies
        (5) Air Defense Operations
        (6) Datalink Operations
        (7) Airspace
        (8) Supporting Operations
        (9) Operational Considerations

2. <u>TACC Generics</u>

    a. <u>Purpose</u>.

    b. <u>Total Training Events</u>. 5 events, 5 hours.

ACADEMIC MODULE	T&R Code
TACC FUNDAMENTALS	ACAD-8500
TACC ORGANIZATIONS	ACAD-8501
TACC SYSTEMS	ACAD-8502
TACC OPERATIONS	ACAD-8503
TACC COMMUNICATIONS NETS AND DATALINKS	ACAD-8504

ACAD-8500 1.0   (*) B   L

        <u>Goal</u>. Review TACC fundamentals.

        <u>Requirement</u>. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

        1. Explain the MAGTF Single Battle Concept.
        2. Describe how the TACC organizations align with the MEF staff.
        3. Identify the other MAGTF elements that a baseline TACC is organized to support.

        <u>Performance Standard</u>. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

        <u>Instructor</u>. BI, SI

        <u>Reference</u>
        1. MCWP 3-25.4 TACC Handbook
        2. U-TACC-PCL-6012 TACC Pocket Checklist

ACAD-8501 1.0   (*) B   L

        <u>Goal</u>. Review TACC Organizations.

        <u>Requirement</u>. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Describe how the TACC organizations align with the ACE staff.
2. Identify the functions of the Future Plans organization.
3. Identify the functions of the Future Operations organization.
4. Identify the functions of the Current Operations organization.
5. Identify the functions of the Air Combat Intelligence organization.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

ACAD-8502 1.0   (*) B   L

Goal. Review TACC Systems.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Identify the Purpose of the Theater Battle Management Core System (TBMCS).
2. Identify the primary databases associated with TBMCS and their functions.
3. State the purpose and identify the functions of Communications Data Link Systm (CDLS).
4. Identify the Tactical Data Links (TDL) associated with the CDLS.
5. State the purpose and identify the functions of Air Defense System Integrator (ADSI).
6. State the purpose and identify the functions of Joint Tactical Terminal (JTT)/ Hybrid Three Channel (H3).
7. Identify the mapping software utilized in the TACC for displaying the Common Tactical Picture.
8. Identify the communications sub-system utilized by the TACC and the frequency spectrums it supports.
9. Identify the primary shelter utilized by the TACC.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. MCWP 3-25.4 TACC Handbook
2. U-TACC-PCL-6012 TACC Pocket Checklist

ACAD-8503 1.0   (*) B   L

Goal. Review TACC Operations.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. List the employment options for the TACC and their uses.

2. Describe the command relationships for the TACC associated with amphibious operations.
3. Identify the siting considerations for the TACC.
4. Identify the items address in a crew turnover.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1.   MCWP 3-25.4 TACC Handbook
2.   U-TACC-PCL-6012 TACC Pocket Checklist

ACAD-8504 1.0   (*) B   L

Goal. Review TACC communications nets and datalinks.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Identify and describe four of the eight MAGTF nets utilized by a doctrinal TACC.
2. Identify the primary net utilized by the following positions: CBC, DBC, ADC, and ICO.
3. Define and explain the following TDLs: Link 11, Link 11B, and Link 16.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

3. TACC Planning.

    a. Purpose.

    b. Total Training Events. 4 events, 4 hours

EVENT	T&R CODE
OPLANS AND OPORDERS	ACAD-8520
TACC EMPLOYMENT AND PLANNING	ACAD-8521
ALTERNATIVE TACC REQUIREMENTS	ACAD-8522
HANDLING AND STORAGE OF CLASSIFIED MATERIALS	ACAD-8523

ACAD-8520 1.0   (*) B   L

Goal. Review OPLANS and OPORDERS.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Define the following terms: Operations Order and Operations Plan.
2. State the two categories of planning.
3. State the definition of operational planning.
4. State what operational planning involved at the strategic, operational, and tactical level of planning.
5. State the three types of directives.
6. List the phases of planning a Joint OPLAN and the entities that are responsible for completing it.
7. Identify the main sections within the Joint Operations Plan.

Instructor. BI, SI

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Reference
1. JP 1-02 Department of Defense Dictionary of Military and Associated Terms
2. MCDP 5 Planning
3. MCDP 6 Command and Control

ACAD-8521   1.0   (*)   B   L

Goal. Review TACC Employment and Planning.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. List the eight factors to consider when selecting a tactical site for the TACC.
2. Diagram the preferred layout for a doctrinal Marine TACC to include all four functional areas.
3. List all items included in a TACC Shelter Suite.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

ACAD-8522   1.0   (*)   B   L

Goal. Review Alternative TACC Requirements.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. State the conditions that must be met to establish the Alternate TACC.

2. State the additional required radio nets for the TACC to pass control to the Alternate TACC.
3. State the operational information required to pass control to the ATACC.
4. State the role of the ATACC.
5. Describe the equipment organic to the TAOC that allows for an alternate TACC.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. MCWP 3-25.4 TACC Handbook
2. MCWP 3-25.7 TAOC Handbook

ACAD-8523 1.0   (*) B   L

Goal. Review proper handling and storage of classified materials.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. State the different levels of classification.
2. State the marking requirements for each level of classification.
3. State the two-person integrity (TPI) rule.
4. State storage procedures for each level of classification.
5. Identify transportation requirements for classified material.
6. State the sections of the SF-702.
7. Identify the approved security containers utilized for storage.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. MCO P5510.1A
2. EKMS-1

4. TACC Crew Positions.

    a. Purpose.

    b. Total Training Events. 10 events, 10 hours

EVENT CODE	TACC CREW POSITION MODULE
8540	SENIOR AIR COORDINATOR RESPONSIBILITIES
8541	CLOSE BATTLE COORDINATOR RESPONSIBILITIES
8542	AIR DEFENSE COORDINATOR RESPONSIBILITIES
8543	AIRSPACE CONTROL OFFICER RESPONSIBILITIES
8544	INTERFACE CONTROL OFFICER ACADEMIC RESPONSIBILITIES
8545	CREW CHIEF ACADEMIC RESPONSIBILITIES
8546	TRACK DATA COORDINATOR RESPONSIBILITIES
8547	SENIOR WATCH OFFICER RESPONSIBILITIES

| 8548 | DEEP BATTLE COORDINATOR RESPONSIBILITIES |
| 8549 | PERSONNEL RECOVERY COORDINATOR RESPONSIBILITIES |

ACAD-8540 1.0   (*) B   L

    Goal. Review SAC Responsibilities.

    Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

    1. State the doctrinal responsibility of the TACC SAC.
    2. Indentify the twelve responsibilities of the SAC as defined in
the reference.

    Performance Standard. Although self paced, instructors may assist
trainees as required. Upon completion of the requirement, the
student will notify the instructor who will log the event as
complete.

    Instructor. BI, SI

    Reference. MCWP 3-25.4 TACC Handbook

ACAD-8541 1.0   (*) B   L

    Goal. Review CBC Responsibilities.

    Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

    1. State the doctrinal responsibility of the TACC CBC.
    2. List the specific responsibilities of the CBC as defined in the
reference.
    3. List what doctrinal nets the CBC will monitor, guard, or assume
net control.

    Performance Standard. Although self paced, instructors may assist
trainees as required. Upon completion of the requirement, the
student will notify the instructor who will log the event as
complete.

    Instructor. BI, SI

    Reference. MCWP 3-25.4 TACC Handbook

ACAD-8542 1.0   (*) B   L

    Goal. Review ADC Responsibilities.

    Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

    1. State the doctrinal responsibility of the TACC ADC.
    2. List the specific responsibilities of the ADC defined in the
reference.
    3. List what doctrinal nets the ADC will monitor, guard, or assume
net control.

    Performance Standard. Although self paced, instructors may assist
trainees as required. Upon completion of the requirement, the

student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

ACAD-8543 1.0   (*) B   L

Goal. Review ACO Responsibilities.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. State the doctrinal responsibility of the TACC ACC.
2. List the specific responsibilities of the ACC as defined in the reference.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

ACAD-8544 1.0   (*) B   L

Goal. Review ICO Responsibilities.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. State the doctrinal responsibility of the TACC ICO.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

ACAD-8545 1.0   (*) B   L

Goal. Review CC Responsibilities.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. List the five responsibilities of the Crew Chief as defined in the reference.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

ACAD-8546 1.0   (*)   B   L

Goal. Review TDC Responsibilities.

Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

1. State who assigns the Tack Data Coordinator.
2. Understand different names for the TDC used by other branches of
service.
3. Understand the 10 responsibilities of the TDC.
4. Be familiar with the TDC's voice net and what info is passed on
it.

Performance Standard. Although self paced, instructors may assist
trainees as required. Upon completion of the requirement, the
student will notify the instructor who will log the event as
complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

ACAD-8547 1.0   (*)   B   L

Goal. Review SWO Responsibilities.

Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

1. State the doctrinal responsibility of the TACC SWO.
2. List the specific responsibilities of the SWO as defined in the
reference.

Performance Standard. Although self paced, instructors may assist
trainees as required. Upon completion of the requirement, the
student will notify the instructor who will log the event as
complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

ACAD-8548 1.0   (*)   B   L

Goal. Review DBC Responsibilities.

Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

1. State the doctrinal responsibility of the TACC DBC.

2. List nine specific responsibilities of the DBC as defined in the reference.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

ACAD-8549 1.0 (*) B   L

Goal. Review PRC Responsibilities.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. State the doctrinal responsibility of the TACC PRC.
2. List specific responsibilities of the PRC as defined in the reference.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.4 TACC Handbook

5. MACCS Agencies

   a. Purpose.

   b. Total Training Events. 11 events, 11 hours

EVENT CODE	MACCS AGENCY ACADEMIC MODULE
8560	DASC FUNDAMENTALS
8561	DASC SYSTEMS
8562	DASC OPERATIONS
8563	TAOC FUNDAMENTALS
8564	TAOC SURVEILLANCE SECTION
8565	LAAD FUNDAMENTALS
8566	LAAD EMPLOYMENT
8567	GBAD RESPONSIBILITIES
8568	MATC FUNDAMENTALS
8569	MATC AND FAA
8570	GENERAL ATC CONCEPTS

ACAD-8560 1.0 (*) B   L

Goal. Review DASC Fundamentals.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. State the role of the DASC.

2. List ten specific responsibilities of the DASC.
3. List the DASC crew members and their principal role in the system.
4. List the capabilities and limitations of the DASC.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.5 DASC Handbook

ACAD-8561 1.0   (*)   B   L

Goal. Review DASC Systems.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Identify the primary communications/operations platform for the DASC.
2. Identify the communication capabilities of the DASC(A).

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.5 DASC Handbook

ACAD-8562 1.0   (*)   B   L

Goal. Review DASC Operations.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. List the DASC employment options.
2. State three employment scenarios for the DASC(A).
3. State the difference between a DASC and an ASE.
4. State the purpose of an ASLT.
5. Identity the external agencies in which the DASC regularly conducts coordination.
6. Identify extensions of the DASC.
7. Identify with which agency the DASC collocates and the purpose.
8. List the functions of Marine Aviation the DASC supports.
9. List the types of immediate requests the DASC processes.
10. List the agencies the DASC coordinates with during amphibious ops.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.5 DASC Handbook

ACAD-8563   1.0   (*)   B   L

Goal. Review TAOC Fundamentals.

Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

1. State the role of the TAOC.
2. List the tasks of the TAOC.
3. Describe the cellular structure of the TAOC including all the
crew positions and responsibilities.
4. List the TDLs the TAOC is capable of interfacing with.
5. Describe the operating characteristics of the AN/TPS-59(v)3.
6. Describe the operating characteristics of the AN/TPS-63.
7. Identify the major end items included in the following capability
sets; TAOC, EW/C, EW, AMD.
8. Describe the relationship between the TAOC with other MACCS
agencies.
9. Describe the TAOC capability to serve as the alternate TACC.

Performance Standard. Although self paced, instructors may assist
trainees as required. Upon completion of the requirement, the
student will notify the instructor who will log the event as
complete.

Instructor. BI, SI

Reference. MCWP 3-25.7 TAOC Handbook

ACAD-8564   1.0   (*)   B   L

Goal. Review TAOC Surveillance Section.

Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

1. Of the doctrinal roles of the TAOC, state the roles that are
assisted and performed by the SID.
2. Of the doctrinal tasks of the TAOC, state the roles that are
assisted and performed by the SID.
3. State the doctrinal responsibilities of the SID.
4. State the doctrinal mission of the surveillance section.
5. State the doctrinal responsibilities of the Data Link
Coordinator.
6. State the doctrinal responsibilities of the Surveillance
Operator.
7. State the type of information that is passed over the following
nets:
    a. Track Supervision Net (TSN)
    b. Data Link Coordination Net (DCN)
    c. Combat Identification and Detection Net (CI/D)
    d. Voice Production Net (VPN)
8. State the surveillance personnel that use the following nets:
    a. TSN
    b. DCN
    c. CI/D
    d. VPN

9. State the NCS for the following nets:
   a. TSN
   b. DCN
   c. CI/D
   d. VPN

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. MCWP 3-25.7 TAOC Handbook
2. NAVMAC 3500.53 TAOC T&R
3. CJCSM 6120.01C Joint Multi-TDL Operating Procedures (JMTOP)

ACAD-8565 1.0 (*) B   L

Goal. Review LAAD fundamentals.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. State the organizational structure of the LAAD BN, to include number of batteries, platoons, sections, and teams per unit.
2. State the smallest tactical unit within a LAAD BN/BTRY.
3. State the smallest tactical element in a LAAD BN/BTRY.
4. State the geographical location of all LAAD units.
5. State primary and secondary missions of LAAD BN.
6. State the doctrinal radio nets organic to the LAAD BN.
7. State the staff sections of the LAAD BN and their functions.
8. State the levels of support the LAAD BN/BTRY provides to MAGTF.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. MCWP 3-25.10 LAAD Handbook
2. NAVMAC 3500.57 LAAD T&R

ACAD-8566 1.0 (*) B   L

Goal. Review LAAD employment in an air defense role.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Define the air defense employment guidelines.
2. Define the air defense employment principles.

3. Define the terms used to prioritize air defense assets.
4. Define command relationships.
5. Define the doctrinal four weapon applications.
6. Define the implied task of Defense of Expeditionary Strike Group Posture (DEP).
7. Define the Air Defense Weapons Conditions (ADWC).
8. Define the air defense States of Alert (SoA).
9. Define the air defense Weapons Control Statuses (WCS).
10. State or identify the basic information required in order to properly employ a LAAD unit/element:
    a. OPCON Authority
    b. ADCON Authority
    c. Mission
    d. Rules of Engagement

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. MCWP 3-25.10 LAAD Handbook
2. NAVMAC 3500.57 LAAD T&R

ACAD-8567 1.0 (*) B   L

Goal. Review GBAD Responsibilities.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Identify the doctrinal definition, establishment and information passed over the following nets:
    a. AAI/AAC (Anti-Aircraft Intel/Anti-Aircraft Control)
    b. AOC (Air Ops Control)
    c. CID (Combat ID)
    d. ADA (Air Defense Alert)
2. Identify the Data Link used by different GBAD units.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. MCWP 3-25.10 LAAD Handbook
2. MCWP 3-22 AAW
3. NAVMAC 3500.53 TAOC T&R

ACAD-8568 1.0 (*) B   L

Goal. Review MATC Fundamentals.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Identify the mission and responsibilities MATC.
2. Describe how MATC crews are typically organized.
3. Describe the responsibilities of the command section, maintenance section, tower section, and radar control section.
4. Describe the mission and functions of the MMT.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. MCWP 3-25.8 MATC Handbook

ACAD-8569 1.0   (*)   B   L

Goal. Review airspace and MATC considerations in regard to the Federal Aviation Administration (FAA) or host-nation equivalent.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Status of MATC equipment systems.
2. Operational tempo of civilian flights within local airspace.
3. Liaison between FAA and MATC representatives.
4. Information flow between civilian and military MATC personnel.
5. Control measures to deconflict military/civilian aircraft, to include:
    a. IFR / VFR routes
    b. Special use airspace
    c. Military operating areas

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. JO 7610.4 Special Operations
2. Area Planning AP/1A Special Use Airspace North and South America

ACAD-8570 1.0   (*)   B   L

Goal. Review general ATC concepts.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Describe the purpose of ATC.
2. Describe the meaning of specific terms of references.
3. Describe ATC service, duty priority, operational priority and procedural preference.
4. Describe flight plans and control information.
5. Describe team position responsibilities.
6. Describe criteria and phraseology for establishing two way communications.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference. JO 7610.65 Air Traffic Control

6. Air Defense Operations

   a. Purpose.

   b. Total Training Events. 5 events, 5 hours

EVENT CODE	AIR DEFENSE ACADEMIC MODULE
8580	CAP MANAGEMENT
8581	FIGHTER MISSIONS
8582	U.S. AND ALLIED AIR-TO-AIR MISSILES
8583	JOINT AIR DEFENSE
8584	IDENTIFICATION PROCEDURES

ACAD-8580 1.0   (*) B   1   L

   Goal. Review CAP Management.

   Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

   1. State the advantages and disadvantages of fighter strip versus fighter CAP.
   2. List the factors that determine the fighter time/distance analysis.
   3. State the considerations needed to optimize CAP effectiveness in the MAGTF IADS.
   4. State the nine factors that should be considered for Cap placement.
   5. List and define the States of Alert for fighter aircraft.
   6. State the items that comprise responsiveness to the Threat Timeline.

   Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

   Instructor. BI, SI

   Reference
   1. MCWP 3-22 AAW
   2. NAVMAC 3500.53 TAOC T&R

ACAD-8581 1.0   (*) B   L

   Goal. Review Fighter Missions.

   Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Explain DCA.
2. Explain OCA.
3. Explain self-escort.
4. Explain Drag-to-Defend tactics.
5. Explain Notch to Defend tactics.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. TOPGUN manual
2. NAVMAC 3500.53 TAOC T&R

ACAD-8582   1.0   (*)   B   L

Goal. Review U.S. and Allied Air-to-Air Missiles.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Describe the type of terminal guidance, and the unclassified max effective range of the following missiles:
   a. AIM-7
   b. AIM-9
   c. AIM-120

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. MAWTS-1 Aviation Intelligence Reference
   Located on SIPR: http://205.54.31.5/default.aspx
2. NAVMAC 3500.53 TAOC T&R

ACAD-8583   1.0   (*)   B   L

Goal. Review Joint air defense weapons systems and Joint air surveillance assets.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. US Army capabilities and limitations:
   a. Patriot
   b. SHORAD
   c. THAAD
2. US Navy capabilities and limitations:
   a. Aegis Guided Missile Cruisers and Destroyers
   b. SPY-1 Radar
   c. F/A-18C/D
   d. E-2C Hawkeye
3. US Air Force capabilities and limitations:

    a. Combat Reporting Center (CRC)
    b. AN/TPS-75 Radar
    c. F-15C/E
    d. F-16C/CJ/ADF
    e. Air Operations Center (AOC)
    f. E-3 Airborne Warning and Control
    g. Joint Surveillance, Target Attack Radar System (JSTARS)

Performance Standard. Although self paced, instructors may assist
trainees as required. Upon completion of the requirement, the
student will notify the instructor who will log the event as
complete.

Instructor. BI, SI

Reference
1. MCRP 3-25E Joint Integrated Air Defense System (JIADS)
2. JP 3-01 Joint Doctrine for Countering Air and Missile Threats
3. NAVMAC 3500.57 LAAD T&R

ACAD-8584   1.0   (*)   B   L

    Goal. Review Identification Procedures.

    Requirement. Given the references, conduct a self paced review to
    ensure understanding of the following learning objectives:

    1. Define the following:
        a. Positive Control
        b. Air Defense Identification Zone (ADIZ)
    2. Explain how the following Airspace Control Measures are used to
    identify aircraft:
        a. Control points
        b. Airspace Control Area
        c. Ingress/Egress routes/Minimum Risk Routes
        d. Flight profiles (altitude and speed)
    3. Explain how the following are used to identify aircraft:
        a. Identify Friend or Foe (IFF) (Modes 1, 2, 3, 4, and 5)
        b. Air Tasking Order (ATO)
    4. Explain the relationship between I.D. Criteria and ROE.
    5. State the OPORDER appendix that contains ROE and Identification
    Criteria.
    6. Explain the purpose and usage of the authentication table (AKAC
    1553).
    7. Define the 6 standard track identifications, in accordance with
    the Joint Multi-TDL Operating Procedures (JMTOP).
    8. List the five track environment categories, in accordance with
    the Joint Multi-TDL Operating Procedures (JMTOP).

    Performance Standard. Although self paced, instructors may assist
    trainees as required. Upon completion of the requirement, the
    student will notify the instructor who will log the event as
    complete.

    Instructor. BI, SI

    Reference
    1. MCWP 3-22 Anti-Air Warfare
    2. MCWP 3-25 Control of Aircraft and Missiles
    3. CJCSI 6120.1D JMTOP

7. Datalink Operations

    a. Purpose.

    b. Total Training Events. 11 events, 11 hours

EVENT CODE	DATALINK ACADEMIC MODULE
8600	LINK 11
8601	LINK 11B
8602	LINK 16
8603	GBDL
8604	EXTENDED INTERFACES
8605	INTERFACE COORDINATION
8606	JOINT DATALINK OPERATIONS
8607	JREAP
8608	TACTICAL DATA SYSTEM PLATFORMS
8609	NATIONAL DATA SYSTEMS
8610	LINK OPS MESSAGE

ACAD-8600 1.0   (*) B   L

          Goal. Review Link 11.

          Requirement. Given the references, conduct a self paced review to
          ensure understanding of the following learning objectives:

          1. Define Link 11.
          2. List and define the station modes of operation.
          3. List and define the net modes of operation.
          4. List the encryption devices used for Link 11 and state which one
          can be found in the AN/TYQ-23(v)4.
          5. Describe the characteristics for the following encryption modes:
               a. A1
               b. A2
               c. B
               d. Plain Text
          6. State the purpose of the KGX-40 State the supported data rates
          for Link 11 and give a brief description of each.
          7. Describe the NCS responsibilities.
          8. Describe Link 11 Gridlock.
          9. State the message format for Link.
          10. Define Data Link Reference Point.

          Performance Standard. Although self paced, instructors may assist
          trainees as required. Upon completion of the requirement, the
          student will notify the instructor who will log the event as
          complete.

          Instructor. BI, SI

          Reference
          1. TAOM tech manual
          2. CJCSM 6120.01D, Joint Multi-TDL Operating Procedures (JMTOP)
          3. NAVMAC 3500.53 TAOC T&R

ACAD-8601 1.0   (*) B   L

          Goal. Review Link 11B.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. State the definition of Link 11B.
2. State the communications mediums that Link 11B can be transmitted over.
3. State the encryption devices used for Link 11B.
4. State the interoperability differences between a KG-84A and KG-84C.
5. State the device necessary for Army LINK 11B units utilizing MSE equipment to communicate with the TAOC, who provides it, and why it is necessary.
6. State the data rates by which LINK 11B can be transmitted.
7. Give and explain the LINK 11B link states.
8. State what size "data message" is utilized for LINK 11B.
9. State the three LINK 11B data message groups.
10. State the purpose of the LINK 11B standby signal.
11. State the differences between Full Transmission of Data and Limited Transmission of Data.
12. State the valid unit address range for LINK 11B.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. TM-08565A 24/3, Tactical Air Operations Module Technical Manual
2. CJCSM 6120.01D, Joint Multi-TDL Operating Procedures (JMTOP)
3. NAVMAC 3500.53 TAOC T&R

ACAD-8602   1.0   (*)   B   L

Goal. Review Link 16.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. State the definition of Link 16.
2. State the purpose of Link 16.
3. State the characteristics of Link 16.
4. State the legal / preferred IU address range for a Link 16 C2 JU.
5. State the definitions of:
    a. Time Division Multiple Access (TDMA)
    b. Network Design Load (NDL)
    c. Network Time Reference (NTR)
    d. Coarse Synchronization (Coarse Sync)
    e. Fine Synchronization (Fine Sync)
    f. Initial Entry JTIDS Unit (IEJU)
6. Define the following terms:
    a. TSEC
    b. MSEC
    c. Stacked Net
    d. Multi-Net
7. List and explain the components found in the Class 2/2H terminal.
8. List the systems capable of utilizing Link 16.
9. List the countries capable of utilizing Link 16.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. TM-08565A 24/3, Tactical Air Operations Module Technical Manual
2. CJCSM 6120.01D, Joint Multi-TDL Operating Procedures (JMTOP)
3. NAVMAC 3500.53 TAOC T&R

ACAD-8603   1.0   (*)   B   L

Goal. Review Ground-Based Datalink.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. List and identify the standard equipment requirements for establishing GBDL.
2. List and identify all sources organic to the MACCS capable of providing for GBDL information.
3. List and describe GBDL communications configurations.
4. List and define capabilities and limitations of ground based data links.
5. Identify the two vital documents required to create GBDL communications architectures.
6. Identify planning considerations for GBDL communication architectures.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. MCRP 3-25.10B LAAD GUNNER'S HANDBOOK
2. NAVMAC 3500.53 TAOC T&R

ACAD-8604   1.0   (*)   B   L

Goal. Review Extended Interfaces.

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Link 4A.
2. ATDL-1.
3. Variable Message Format (VMF).
4. Link 16: list the systems capable of utilizing Link 16.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. MAWTS-1 GBDL Student Handout
2. NAVMAC 3500.53 TAOC T&R

ACAD-8605 1.0 (*) B   L

Goal. Review Interface Coordination.

Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

1. State who controls the establishment of the Multi-TDL interface.
2. Define the following:
    a. Data registration
    b. Sensor registration
    c. Correlation
    d. Common track
    e. Dual designation
3. List the steps of the data registration test.
4. State which unit will normally be assigned as the data
registration reference unit in a Multi-TDL environment.
5. List the five correlation restrictions for reported tracks.
6. List the eight operational contingency constraints (OCCs) for a
track.
7. List the six steps for voice resolution of a dual designation.
8. IAW the JMTOP, what is the single most important element of
information of the TDL interface.
9. Outline in detail the ID difference resolution procedures.
10. Define a Change Data Order (CDO).
11. State who on the interface may originate a CDO.

Performance Standard. Although self paced, instructors may assist
trainees as required. Upon completion of the requirement, the
student will notify the instructor who will log the event as
complete.

Instructor. BI, SI

Reference
1. CJCSM 6120.01D Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL STD 6016
3. NAVMAC 3500.53 TAOC T&R

ACAD-8606 1.0 (*) B   L

Goal. Review Joint Tactical Air Operations Datalink Operations.

Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

1. Define Joint Tactical Air Operations.
2. Define the JTAO Interface.
3. State the primary mission of the Interface Management duty
assignments:
    a. Joint Interface Control Officer (JICO)
    b. Link 11/11B Manager
    c. Link 16 Manager

d. Track Data Coordinator (TDC)

4. State who is responsible for assigning each of the above players.

5. List the interface responsibilities of the Joint Interface Control Officer/Unit.

6. List the interface responsibilities of the Track Data Coordinator.

7. State the document that contains the primary and alternate assignments for interface control and coordination responsibilities.

8. List the Seven JTAO interface planning factors.

9. List the planning factors JTAO managers require.

10. Describe the procedures for entering into a mature TDL network.

11. Define Reporting Responsibility.

12. Explain how a unit can have reporting responsibility for a track not in its track number block.

13. State the purpose of Fidelity Drills on the JTAO Interface.

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. CJCSM 6120.01D Joint Multi-TDL Operating Procedures (JMTOP)
2. NAVMAC 3500.53 TAOC T&R

ACAD-8607   1.0   (*)   B   L

Goal. Review Joint Range Extension Application Protocol (JREAP).

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Define Joint Range Extension Application Protocol (JREAP).
2. State the exchange mediums for:
   a. JREAP-A
   b. JREAP-B
   c. JREAP-C
3. State the limiting factors for:
   a. JREAP-A
   b. JREAP-B
   c. JREAP-C
4. List the characteristics of the following systems are available for JREAP operations:
   a. Join Range Extension (JRE)
   b. Air Defense System Integrator (ADSI)

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. JRE and ADSI tech manuals
2. Joint Multi-TDL Operating Procedures (JMTOP)
3. NAVMAC 3500.53 TAOC T&R

ACAD-8608   1.0   (*)   B   L

Goal. Review Tactical Data Systems (TDS) Platforms.

Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

1.   State the data link capabilities of USMC TDS Platforms.
2.   State the data link capabilities of Navy TDS Platforms.
3.   State the data link capabilities of Air Force TDS Platforms.
4.   State the data link capabilities of Army TDS Platforms.

Performance Standard. Although self paced, instructors may assist
trainees as required. Upon completion of the requirement, the
student will notify the instructor who will log the event as
complete.

Instructor. BI, SI

Reference
1.   CJCSM 6120.01D Joint Multi-TDL Operating Procedures (JMTOP)
Manual
2.   NAVMAC 3500.53 TAOC T&R

ACAD-8609   1.0   (*)   B   L

Goal. Review National Data Systems.

Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

1.   Commanders' Tactical Terminal.
2.   DATA HAWK:
     a. GaleLite
3.   Intelligence Broadcast Service:
     a. TIBS
     b. TRAP
4.   National Systems Cueing.

Performance Standard. Although self paced, instructors may assist
trainees as required. Upon completion of the requirement, the
student will notify the instructor who will log the event as
complete.

Instructor. BI, SI

Reference
1.   Guide to the USMTF User Formats - Operational Tasking Links
2.   CJCSM 6120.01D, Joint Multi-TDL Operating Procedures (JMTOP)
3.   NAVMAC 3500.53 TAOC T&R

ACAD-8610   1.0   (*)   B   L

Goal. Review Links Ops Messages.

Requirement. Given the references, conduct a self paced review to
ensure understanding of the following learning objectives:

1.   State the purpose of the OPTASKLINK.
2.   Explain the information contained in the following sets:

    a. "PERIOD" set
    b. "UNITFLTR" set
    c. "LKFREQ" set
    d. "REF" set
    e. "OPER" set
    f. "EXER" set

3. Explain the information in the following sets associated with Link 11:
    a. "DUTY" set
    b. "LSYSDATA" set
    c. "LPUDATA" set
    d. "POLLSEQ" set

4. Explain the information contained in the following sets associated with Link 11B:
    a. "DUTY" set
    b. "LRUDATA" set
    c. "LRULINK" set

5. Explain the information contained in the following sets associated with Link 16:
    a. "NETWORK" set
    b. "CRYPDAT" set
    c. "JUDATA" set
    d. "DUTY" set

Performance Standard. Although self paced, instructors may assist trainees as required. Upon completion of the requirement, the student will notify the instructor who will log the event as complete.

Instructor. BI, SI

Reference
1. Guide to the USMTF User Formats – Operational Tasking Links
2. CJCSM 6120.01D, Joint Multi-TDL Operating Procedures (JMTOP)
3. NAVMAC 3500.53 TAOC T&R

8. Airspace

    a. Purpose.

    b. Total Training Events. 2 events, 2 hours

EVENT CODE	AIRSPACE ACADEMIC MODULE
8620	AIRSPACE COORDINATING MEASURES
8621	JOINT AIRSPACE

ACAD-8620   1.0   (*)   B   L

Goal. Review Airspace Coordinating Measures (ACM).

Requirement. Given the references, conduct a self paced review to ensure understanding of the following learning objectives:

1. Identify the elements of an airspace coordination means request.
2. Describe the following classes of airspace: A, B, C, D, E, and G.
3. Given a list of 25 ACMs from the reference, provide the definition and purpose for each.