



Change 8
19 September 2003



AEGIS Training and Readiness Center

Detachment Training Catalog

September 2003



Change 8
19 September 2003

Cover photo: “Against a black sky on a stormy sea, USS HUE CITY (CG 66) shoots to kill an enemy yet unseen by own ship sensors. CEC is a true force multiplier.”

LCDR Stephen Evans
Executive Officer
USS HUE CITY (CG 66)

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SECTION 1

INTRODUCTION

INTRODUCTION

I. Afloat Training Organization (ATO) The ATO consolidates the basic level shipboard training effort into one organization under COMSURFLANT/COMSURFPAC, capable of providing “one-stop” training services to the TYCOM/ISIC/CO. The Afloat Training Group (ATG) is the central scheduling authority for afloat training during the basic phase. The AEGIS Training and Readiness Center Detachment (ATRCD) will coordinate afloat training schedules for each unit’s Command Assessment of Readiness Training II (CART II), Tailored Ship Training Availability I/II/III (TSTA I/II/III) and Final Evaluation Period (FEP) and is also responsible for maintaining training standardization between fleets.

II. AEGIS Training and Readiness Center Detachment Overview

1. Mission Provide Combat System Casualty Control Training to new construction and commissioned CG-47/DDG-51 Class ships in accordance with Combat System Operational Sequencing System (CSOSS) instructions. Train CG-47/DDG-51 Class Combat System Training Teams (CSTT) to prepare, conduct and evaluate self-training packages utilizing the ship’s embedded training devices in support of “Inside the Lifelines” training concept. Provide tactical/technical training support for Combat System Computer program upgrade deliveries to CG-47/DDG-51 Class ships as required in support of battle readiness requirements. Provide direct waterfront liaison and feedback with AEGIS Training and Readiness Center (ATRC), Dahlgren on CG-47/DDG-51 Class ship training needs.

2. General ATRC is the activity responsible for AEGIS Combat System training. The AEGIS Training and Readiness Center Detachments (ATRCD), located in Wallops Island, VA; Norfolk, VA; Mayport, FL; San Diego, CA; Pearl Harbor, HI; and Yokosuka, Japan, are the components of the ATRC and assist in accomplishing the overall AEGIS training and support mission. Training conducted by the ATRCD is normal “pipeline training” for PRECOM Units and refresher training for commissioned units. The Officer in Charge (OIC) of the ATRCD reports to the Commanding Officer, ATRC; and is accountable for, and will abide by all training and administrative requirements as delineated in ATRC/PMS 400 notices, instructions and directives.

a. The OICs of the ATRCDs are assigned additional duties and report directly to Commander Afloat Training Group (ATG), LANT/PAC/MIDPAC/WESTPAC for matters regarding AEGIS platform training and readiness while supporting ATG directed evolutions. Upon request, the OIC provides the necessary personnel to support and participate in ATG LANT/PAC/MIDPAC/WESTPAC working groups to improve processes, standardize between ATRCDs to infuse training expertise.

b. ATRCDs provide assistance to ATG LANT/PAC/MIDPAC/WESTPAC as a source of AEGIS expertise to support CG-47/DDG-51 readiness and training issues. The ATRCDs assist ATG LANT/PAC/MIDPAC/WESTPAC directed Combat Systems evolutions to include CART II, TSTA I, II, III AND FEPs. ATRCDs provide support and/or conduct training as requested and as listed in the current ATRCD approved course catalog. ATRC, will be responsible for providing TAD travel and per diem funds for ATRCD personnel for all training missions except CART IIs and FEPs. ATG LANT/PAC/MIDPAC/WESTPAC will provide support for CART II and FEP.

c. Any organization or activity may request training assistance from an ATRCD. Scheduling authority for training occurring outside the TSTA training windows for the requesting ship is accomplished via the OIC, ATRCD. When deemed necessary, the OIC, ATRCD may request personnel augmentation from ATRC or its activities to accomplish scheduled training, evolutions, or assessment evolutions. Schedule priorities due to conflicts that exceed manpower availability will be a function of Commanding Officer, ATRC. Phone numbers and Message Plain Language Addresses for the ATRCDs are listed in Appendix A of this document.

SECTION 2

COURSES OF INSTRUCTION

Course Title: AEGIS TRAINING SUPERVISOR (TRASUP) MK 29

CIN: S-221-0031 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: During Overhaul/SRA or prior to CART II/TSTA, and as requested.

Purpose: Provides selected CIC personnel the knowledge and skills required to perform the duties of a Training Supervisor.

Audience: Selected enlisted CIC Team members (source ratings OS, FC, EW, STG) (E4-E9) or selected Officers (maximum class capacity: 6)

Scope: Provides the trainee with a general description of the AEGIS Combat Training System (ACTS). The physical, functional, interface, and operational description of ACTS and OBT will be discussed. The course also includes the practical application to support the normal operations of ACTS. Provides OBT and EW interface training.

Prerequisites: 1. AEGIS Console experience.

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP. (Day 1)
2. Dedicated system time: SPY, WCS, C&D, OBT, AWCS, SQQ-89, SLQ-32, SIMAS in addition to ACTS tapes, and ECGs. (Days 2, 3, 4 & 5)
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T3400/1 AEGIS COMBAT TRAINING SYSTEM (ACTS) B/L 1.4

Section 1. Introduction to and Basic Operation of ACTS

- Topic 1. General, Operational, and Documentation Description of ACTS
- Topic 2. Physical Description of ACTS
- Topic 3. Interface Description of ACTS
- Topic 4. Operational Description of ACTS
- Topic 5. Basic Operation of ACTS

PART T3400/2 AEGIS COMBAT TRAINING SYSTEM (ACTS) B/L 2.10/3.3

Section 1. Introduction to and Basic Operation of ACTS

- Topic 1. General, Operational, and Documentation Description of ACTS
- Topic 2. Physical and Functional Description of ACTS
- Topic 3. Interface Description of ACTS
- Topic 4. Operational Description of ACTS
- Topic 5. Basic Operation of ACTS

PART T3400/3 AEGIS COMBAT TRAINING SYSTEM (ACTS) B/L 5.3, 3A

Section 1. Introduction to and Basic Operation of ACTS

- Topic 1. General, Operational, and Documentation Description of ACTS
- Topic 2. Physical Description of ACTS
- Topic 3. Interface Description of ACTS
- Topic 4. Operational Description of ACTS
- Topic 5. Basic Operation of ACTS

Course Title: AEGIS COMBAT SYSTEMS MAINTENANCE TEAM (CSMT)

CIN: S-121-0484 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: During Overhaul/SRA or prior to CART II/TSTA, and as requested.

Purpose: Provides an AEGIS CSMT/SERT with the knowledge to effectively assist the Combat Systems Test Officer/Combat System Maintenance Manager in implementing a Combat System Maintenance program and resolving interface problems as they relate to the AEGIS Combat System.

Audience: Ship's CSMT/SERT members (minimum class capacity: 6, maximum class capacity: 12)

Scope: Familiarizes the maintenance team members with the technical characteristics, functional relationships, operational capabilities and maintenance requirements of the AEGIS Combat Systems. Includes practical application in fault detection and isolation.

Prerequisites: Senior technician or supervisor designated as a member of the AEGIS CSMT/SERT.

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system, VAP, and television/VCR (VHS).
2. Classified material storage for overnight storage of publications.
3. Student roster to include name, rate/rank, SSN, and clearance data.

Topical Outline:

PART T0012/1 AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 1 (Baseline 1)

Section 1. AEGIS Combat Systems Management

- Topic 1. Knowledge of Documentation
- Topic 2. Knowledge of CSOSS
- Topic 3. Knowledge of Readiness Assessment and Alignment
- Topic 4. General Description of Ticonderoga Class
- Topic 5. Knowledge of the AEGIS Combat System (ACS)
- Topic 6. Knowledge and Comprehension of Detection
- Topic 7. Knowledge and Comprehension of Control
- Topic 8. Knowledge and Comprehension of Engagement
- Topic 9. Knowledge and Comprehension of Support
- Topic 10. Knowledge and Comprehension of Support Auxiliaries
- Topic 11. OCSOT/CSOT
- Topic 12. Knowledge and Comprehension of Element Level Testing

PART T0012/2 AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 2 (Baseline 2)

Section 1. AEGIS Combat Systems Management

- Topic 1. Knowledge of Documentation
- Topic 2. Knowledge of CSOSS
- Topic 3. Knowledge of Readiness Assessment and Alignment
- Topic 4. General Description of Ticonderoga Class
- Topic 5. Knowledge of the AEGIS Combat System (ACS)
- Topic 6. Knowledge and Comprehension of Detection
- Topic 7. Knowledge and Comprehension of Control
- Topic 8. Knowledge and Comprehension of Engagement
- Topic 9. Knowledge and Comprehension of Support
- Topic 10. Knowledge and Comprehension of Support Auxiliaries
- Topic 11. OCSOT/CSOT
- Topic 12. Knowledge and Comprehension of Element Level Testing

Course Title: AEGIS COMBAT SYSTEMS MAINTENANCE TEAM (continued)

PART T0012/3 AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 3 (Baseline 3/3A)

Section 1. AEGIS Combat Systems Management

- Topic 1. Knowledge of Documentation
- Topic 2. Knowledge of CSOSS
- Topic 3. Knowledge of Readiness Assessment and Alignment
- Topic 4. General Description of Ticonderoga Class
- Topic 5. Knowledge of the AEGIS Combat System (ACS)
- Topic 6. Knowledge and Comprehension of Detection
- Topic 7. Knowledge and Comprehension of Control
- Topic 8. Knowledge and Comprehension of Engagement
- Topic 9. Knowledge and Comprehension of Support
- Topic 10. Knowledge and Comprehension of Support Auxiliaries
- Topic 11. OCSOT/CSOT
- Topic 12. Knowledge and Comprehension of Element Level Testing

PART T0012/4 AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 4 (Baseline 5 CG)

Section 1. AEGIS Combat Systems Management

- Topic 1. Knowledge of Documentation
- Topic 2. Knowledge of CSOSS
- Topic 3. Knowledge of Readiness Assessment and Alignment
- Topic 4. General Description of Ticonderoga Class
- Topic 5. Knowledge of the AEGIS Combat System (ACS)
- Topic 6. Knowledge and Comprehension of Detection
- Topic 7. Knowledge and Comprehension of Control
- Topic 8. Knowledge and Comprehension of Engagement
- Topic 9. Knowledge and Comprehension of Support
- Topic 10. Knowledge and Comprehension of Support Auxiliaries
- Topic 11. OCSOT/CSOT
- Topic 12. Knowledge and Comprehension of Element Level Testing

PART T0012/5 AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 5 (Baseline 5 DDG)

Section 1. AEGIS Combat Systems Management

- Topic 1. Knowledge of Documentation
- Topic 2. Knowledge of CSOSS
- Topic 3. Knowledge of Readiness Assessment and Alignment
- Topic 4. General Description of Ticonderoga Class
- Topic 5. Knowledge of the AEGIS Combat System (ACS)
- Topic 6. Knowledge and Comprehension of Detection
- Topic 7. Knowledge and Comprehension of Control
- Topic 8. Knowledge and Comprehension of Engagement
- Topic 9. Knowledge and Comprehension of Support
- Topic 10. Knowledge and Comprehension of Support Auxiliaries
- Topic 11. OCSOT/CSOT
- Topic 12. Knowledge and Comprehension of Element Level Testing

PART T0012/6 AEGIS COMBAT SYSTEMS MANAGEMENT - VOL. 6

Section 1. AEGIS Combat Systems Management - VOL. 6 (Baseline 6PI)

- Topic 1. Knowledge of Documentation
- Topic 2. Knowledge of CSOSS
- Topic 3. Knowledge of Readiness Assessment and Alignment
- Topic 4. General Description of Ticonderoga Class
- Topic 5. Knowledge of the AEGIS Combat System (ACS)
- Topic 6. Knowledge and Comprehension of Detection
- Topic 7. Knowledge and Comprehension of Control
- Topic 8. Knowledge and Comprehension of Engagement

Course Title: AEGIS COMBAT SYSTEMS MAINTENANCE TEAM (continued)

Topic 9. Knowledge and Comprehension of Support

Topic 10. Knowledge and Comprehension of Support Auxiliaries

Topic 11. OCSOT/CSOT

Topic 12. Knowledge and Comprehension of Element Level Testing

Section 2. AEGIS Combat Systems Management - VOL. 6 (Baseline 6PIII)

Topic 1. Knowledge of Documentation

Topic 2. Knowledge of CSOSS

Topic 3. Knowledge of Readiness Assessment and Alignment

Topic 4. General Description of Ticonderoga Class

Topic 5. Knowledge of the AEGIS Combat System (ACS)

Topic 6. Knowledge and Comprehension of Detection

Topic 7. Knowledge and Comprehension of Control

Topic 8. Knowledge and Comprehension of Engagement

Topic 9. Knowledge and Comprehension of Support

Topic 10. Knowledge and Comprehension of Support Auxiliaries

Topic 11. OCSOT/CSOT

Topic 12. Knowledge and Comprehension of Element Level Testing

Course Title: AEGIS COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD)

CIN: S-221-0028 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: Determined by ship's force, as often as necessary. Should be conducted prior to CART II or during early TSTA phase of training. CICTT may also be conducted during pre-com, post ROH/RAV, or when there is a significant turnover of Combat Information Center (CIC) watchstanders.

Purpose: Provide the knowledge and skills required to enable all members of the CIC team to perform the duties and responsibilities of their assigned stations while operating in a multi-warfare environment.

Audience: All Condition III CIC watchstanders (OS, FC, ST, EW, IS, and Officer).

Scope: Course will provide the CIC watch team with the background knowledge in a classroom environment reinforced by Detect to Engage labs and ACTS scenarios.

Prerequisites: Basic CIC console familiarization.

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP. (Days 1-2)
2. Dedicated system time: SPY, WCS, C&D, ACTS, SLQ-32, SQQ-89, ASWCS, BFTT, BEWT, EWOBT.
3. ACTS scenario tapes and ECG(s). (Days 2-5)
4. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0044/1 COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) BL 1.4

Section 1. CICTT (Shipboard)

- Topic 1. AEGIS Combat System (ACS) Overview
- Topic 2. Identification Friend or Foe (IFF) Management
- Topic 3. Data Links Overview
- Topic 4. AEGIS Doctrine Fundamentals
- Topic 5. Detect To Engage Fundamentals

Section 2. CICTT (Shipboard)

- Topic 1. Performance of CICTT (Shipboard)

PART T0044/2 COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) BL 2.10

Section 1. CICTT (Shipboard)

- Topic 1. AEGIS Combat System (ACS) Overview
- Topic 2. Identification Friend or Foe (IFF) Management
- Topic 3. Data Links Overview
- Topic 4. AEGIS Doctrine Fundamentals
- Topic 5. Detect To Engage Fundamentals

Section 2. CICTT (Shipboard)

- Topic 1. Performance of CICTT (Shipboard)

PART T0044/3 COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) BL 3A/5.3

Section 1. CICTT (Shipboard)

- Topic 1. AEGIS Combat System (ACS) Overview
- Topic 2. Identification Friend or Foe (IFF) Management
- Topic 3. Data Links Overview
- Topic 4. AEGIS Doctrine Fundamentals
- Topic 5. Detect To Engage Fundamentals

Section 2. CICTT (Shipboard)

- Topic 1. Performance of CICTT (Shipboard)

Course Title: AEGIS COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD)
(continued)

PART T0044/4 COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) BL 6.1

Section 1. CICTT (Shipboard)

- Topic 1. AEGIS Combat System (ACS) Overview
- Topic 2. Identification Friend or Foe (IFF) Management
- Topic 3. Data Links Overview
- Topic 4. AEGIS Doctrine Fundamentals
- Topic 5. Detect To Engage Fundamentals

Section 2. CICTT (Shipboard)

- Topic 1. Performance of CICTT (Shipboard)

PART T0044/5 COMBAT INFORMATION CENTER TRAINING TEAM (CICTT) (SHIPBOARD) BL 6.3

Section 1. CICTT (Shipboard)

- Topic 1. AEGIS Combat System (ACS) Overview
- Topic 2. Identification Friend or Foe (IFF) Management
- Topic 3. Data Links Overview
- Topic 4. AEGIS Doctrine Fundamentals
- Topic 5. Detect To Engage Fundamentals

Section 2. CICTT (Shipboard)

- Topic 1. Performance of CICTT (Shipboard)

Course Title: BASIC MULTI-TADIL SYSTEM TEAM TRAINING (BMTT)

CIN: S-221-1290 Course Security: UNCLASSIFIED

Location: Exportable (Inport) Length: 5 Days

Periodicity: During TSTA, and as requested.

Purpose: To provide technicians, operators and support personnel with the knowledge and skills for effective execution of data-link operations.

Audience: IT, ET, FC, 08

Scope: This course trains all applicable personnel the team concept of Basic Multi-TADIL communications utilizing existing publications, troubleshooting techniques and common shipboard equipment.

Prerequisites: None

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP. (Days 1-3)
2. Dedicated system time: Ship-coordinated live TADIL support. (Days 3-5)
3. Student roster to include name, rate/rank and SSN.

Topical Outline:

PART T0035 TACTICAL DIGITAL INFORMATION LINK (TADIL) C SYSTEM

Section 1. Introduction to TADIL C System

- Topic 1. General, Physical, and Documentation Description of TADIL C System
- Topic 2. Functional Description of TADIL C System
- Topic 3. Interface Description of TADIL C System
- Topic 4. Operational Description of TADIL C System

Section 2. Operation of TADIL C System

- Topic 1. Operation of TADIL C System

PART T0036 TACTICAL DIGITAL INFORMATION LINK (TADIL) A SYSTEM

Section 1. Introduction to TADIL A System

- Topic 1. General, Physical, and Documentation Description of TADIL A System
- Topic 2. Functional Description of TADIL A System
- Topic 3. Interface Description of TADIL A System
- Topic 4. Operational Description of TADIL A System

Section 2. Operation of TADIL A System

- Topic 1. Operation of TADIL A System

PART T0037 TACTICAL DIGITAL INFORMATION LINK (TADIL) J SYSTEM

Section 1. Introduction to TADIL J System

- Topic 1. General, Physical, and Documentation Description of TADIL J System
- Topic 2. Functional Description of TADIL J System
- Topic 3. Interface Description of TADIL J System
- Topic 4. Operational Description of TADIL J System

Section 2. Operation of TADIL J System

- Topic 1. Operation of TADIL J System

Course Title: BATTLE GROUP MULTI-TADIL TEAM TRAINING (BGMTT)

CIN: S-221-4001 Course Security: SECRET

Location: Exportable (U/W and Inport) Length: 3 Days Inport, 3-5 Days U/W

Periodicity: Inport prior to COMPTUEX, U/W prior to JTFEX

Purpose: To train Battle Group TADIL managers and tactical warfighters to effectively design, employ and manage TADIL architectures.

Audience: Battle Group Staffs, CVW, and shipboard TADIL Management Team, Technicians (RM, ET, FC/DS) and Operators (TAO, FADC, ICO, AWC, CSC, TIC/Track Sup, and ID Operator). The Executive Overview is designed for Battle Group Commander, Battle Group Staff, and Commanding/Executive Officers.

Scope: This course provides the requisite knowledge and skills necessary to operate in BG/AOR specific Multi-TADIL environments. Inport topics will be reinforced by live underway Multi-TADIL operations and training.

Prerequisites: Post-FEP, established Battle Group units, operators, and staff.

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP. (Days 1-3)
2. Dedicated system time: Battle Group-coordinated live TADIL support. (U/W)
3. Student roster to include name, rank/rank and SSN.

Topical Outline:

PART T0038 TACTICAL DIGITAL INFORMATION LINK (TADIL) SYSTEMS

Section 1. Familiarization with TADIL Systems

- Topic 1. Executive Overview
- Topic 2. Battle Group Capabilities and Limitations
- Topic 3. Data Registration (Gridlock) and Correlation - Navy Only
- Topic 4. Cooperative Engagement Capability (CEC) Tracking and Composite ID
- Topic 5. Battle Group Multi-TADIL Architecture
- Topic 6. Joint Interface Control Officer
- Topic 7. Track Data Coordination (TDC) and Management
- Topic 8. Area of Responsibility Multi-TADIL Architecture
- Topic 9. Underway Training

Course Title: TRAINING SUPERVISOR AEGIS COMBAT TRAINING SYSTEM (TRASUP) MK 50

CIN: S-221-4000 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: During Overhaul/SRA or prior to CART II/TSTA, and as requested.

Purpose: Provides selected CIC personnel the knowledge and skills required to perform the duties of a Training Supervisor.

Audience: Selected enlisted CIC Team members (source ratings OS, FC, EW, STG) (E4-E9) or selected officers (maximum class capacity: 6)

Source: Provides AEGIS Console Operators with the skill and knowledge necessary to operate the AEGIS Combat System as it pertains to training. The practical application to support the normal operations of AEGIS Combat Training System (ACTS) and Battle Force Tactical Training System (BFTT) including system interfaces, displays, controls, and indicators.

Prerequisites: 1. AEGIS Console experience
2. Initial BFTT Operations Console (BOPC) Operator Course (for waterfront Detachments courses only).

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP. (Day 1.)
2. Dedicated system time: ACTS Computer, BOPC, BFTT Computer, LAUs and OBTs, SPY, WCS, C&D, OBT, AWCS, SQQ-89, SLQ-32, in addition to ACTS MOS and ECGs. (Days 2-5)
3. Student roster to include name, rate/rank, SSN, and clearance data.

Topical Outline:

PART T3400/1 AEGIS COMBAT TRAINING SYSTEM (ACTS)

Section 1. Introduction to ACTS MK 50 (B/L 5.0.Z)

- Topic 1. General, Functional, Operational, and Documentation Description of ACTS
- Topic 2. Physical and Functional Description of ACTS
- Topic 3. Interface Description of ACTS
- Topic 4. Operational Description of ACTS
- Topic 5. Basic Operation of ACTS
- Topic 6. Operational Description of Battle Force Tactical Trainer
- Topic 7. Basic Operation of Battle Force Tactical Trainer*

PART T3400/2 AEGIS COMBAT TRAINING SYSTEM (ACTS)

Section 1. Introduction to AEGIS Combat Training System MK 50 (B/L 6.0 OJ-663)

- Topic 1. General, Functional, Operational, and Documentation Description of ACTS
- Topic 2. Physical and Functional Description of ACTS
- Topic 3. Interface Description of ACTS
- Topic 4. Operational Description of ACTS MK 50 System
- Topic 5. Basic Operation of ACTS MK 50 System
- Topic 6. Operational Description of Battle Force Tactical Trainer
- Topic 7. Basic Operation of Battle Force Tactical Trainer*

*NOTE: Initial BFTT Operator Console (BOPC) operations will not be taught by the waterfront detachments. Installation teams, Wallops Island and Non-ATRC agencies will teach basic BOPC operations.

Course Title: TRAINING SUPERVISOR AEGIS COMBAT TRAINING SYSTEM (TRASUP) MK 50
(continued)

PART T3400/3 AEGIS COMBAT TRAINING SYSTEM (ACTS)

Section 1. Introduction to ACTS MK 50 (B/L 6.0, OJ-719)

Topic 1. General, Functional, Operational, and Documentation Description of ACTS

Topic 2. Physical and Functional Description of ACTS

Topic 3. Interface Description of ACTS

Topic 4. Operational Description of ACTS MK 50 System

Topic 5. Basic Operation of ACTS MK 50 System

Topic 6. Operational Description of Battle Force Tactical Trainer

Topic 7. Basic Operation of Battle Force Tactical Trainer*

PART T3400/4 AEGIS COMBAT TRAINING SYSTEM (ACTS)

Section 1. Introduction to ACTS MK 50 (B/L 6.3, OJ-719)

Topic 1. General, Functional, Operational, and Documentation Description of ACTS

Topic 2. Physical and Functional Description of ACTS

Topic 3. Interface Description of ACTS

Topic 4. Operational Description of ACTS MK 50 System

Topic 5. Basic Operation of ACTS MK 50 System

Topic 6. Operational Description of Battle Force Tactical Trainer

Topic 7. Basic Operation of Battle Force Tactical Trainer*

*NOTE: Initial BFTT Operator Console (BOPC) operations will not be taught by the waterfront detachments. Installation teams, Wallops Island and Non-ATRC agencies will teach basic BOPC operations.

SECTION 3

SPECIALIZED BRIEFS

Course Title: COMBAT SYSTEMS OPERATIONAL SEQUENCING SYSTEM (CSOSS)
FUNDAMENTALS

SBIN: T0012-9-04 Course Security: UNCLASSIFIED

Location: Exportable (U/W or Inport) Length: Variable

Periodicity: Pre-commissioning Units, during Overhaul/SRA, 24 Months

Purpose: Provides technical watchteams with introduction/refresher knowledge/skill training in CSOSS concepts, publications, and procedures.

Audience: Technical CSOSS users.

Scope: Course is a prerequisite for CSOSS II. Modules 1, 2, and 3 are presented to Pre-commissioning Units. Modules 1 and 3 are presented to commissioned units (Module 2 is available for commissioned units on request).

Module 1 - Classroom lecture covering Knowledge and Comprehension of CSOSS organization and procedures. 1 ½ hour lecture, repeated over two-days for CSOOW/Area Supervisors and Maintenance Personnel. Maximum class size 15. Module 1 is a prerequisite for Modules 2 and 3.

Module 2 - CSOSS Casualty Walk-Through: Provides technical watchstanders basic hands-on in a casualty environment. Emphasis is on the use of CSOSS Space Books and proper reporting/tracking of Combat Systems casualties. CSOOW, Area Supervisor, and equipment space watchstanders are trained on individual casualties during four lab periods. (2 Days)

Module 3 - Combat System Casualty Control Exercises (CSCCE): Provides intermediate hands on training in a non-tactical environment. Drills are executed by CSOOW, Area Supervisor, and equipment space watchstanders manned in Condition III. Two multi-casualty drill sets are executed during a one-day lab.

Prerequisites: Combat Systems Training Team (CSTT) training.

Support Requirements:

1. Student roster to include name, rate/rank, and SSN.
2. Module 1. a. Classroom with PowerPoint projection system and visual aid panel (VAP)/chalkboard.
3. Module 2. a. Access to CSMC and various equipment spaces.
b. Five (5) IVCS Headsets.
c. Access to Preliminary or Training CSOSS books.
4. Module 3. a. CSOSS books located in spaces IAW Installation Record.
b. IVCS headsets located in equipment spaces.

Topical Outline:

PART T0012 AEGIS COMBAT SYSTEM MANAGEMENT

Section 1. AEGIS Combat System Management (CSOSS)

Topic 1. Knowledge and Comprehension of AEGIS Combat System Management Area Supervisor, CSOOW and Maintenance Person

Course Title: FORCE AIR DEFENSE COMMANDER

SBIN: T0025-9-01 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: After completion of basic training cycle, prior to COMPTUEX

Purpose: Provides CIC watchstanders with the basic knowledge and skills required to function as a Battle Group/Force Air Defense Commander Team. The training will be accomplished onboard AEGIS Class ships using the AEGIS Combat System, ACTS, BFTT, BEWT, EW OBT, AN/SQQ-89 OBT, and simulated/live TADIL and communication circuits.

Audience: Force Air Defense Team including TAO, Force TAO, AAWC, Force AAWC, CSC, TIC, IDS, MSS, AIC, EW, RSC and FADIZ Operator.

Scope: Course will train ship's CIC Condition III watch teams in Battle Group/Force AD procedures, providing the AD team with the requisite knowledge and skills for the ship to function as Battle Group/Force ADC in a multi-threat environment.

Prerequisites: 1. Team members should have basic console operator skills.
2. Required completion of CIC Team Training (Shipboard) S-221-0028

Support Requirements:

1. Classroom with PowerPoint projection system with VAP. (Day 1)
2. Qualified TRASUP to assist trainers for training system initialization.
3. Dedicated system time: SPY, WCS, OBT, AN/SLQ-32(), ADS, ACTS, BFTT, IFF, simulated TADIL, C&D, six dummy R/T Circuits.
4. Require the following Watchstations attend both the classroom lessons and scenarios; Force TAO, Force AIR, Red Crown/Green Crown, TAO, CSC, RSC, AIR, AIC, TIC, IDS, EWS, EWCO, ARC, MSS. Goal is train Condition III Watchstanders.
5. Student roster to include name, rate/rank, SSN, clearance data, and PRD.

Topical Outline:

PART T0025 FORCE AIR DEFENSE COMMANDER (FADC)

Section 1. Force Air Defense Commander

- Topic 1. General and Administrative, Documentation Description
- Topic 2. Air Defense Concepts
- Topic 3. Carrier Operations
- Topic 4. Aircraft Capabilities & Limitations
- Topic 5. TADIL Management
- Topic 6. Identification Management
- Topic 7. Force Air Defense Identification Zone (FADIZ) Execution
- Topic 8. Joint Structure
- Topic 9. TBMD (Currently not taught)
- Topic 10. ATO/SPINS

Section 2. FADC

- Topic 1. FADC Execution Description
- Topic 2. FADC Execution

Course Title: AEGIS CORE DOCTRINE

SBIN: T0010-9-01 Course Security: SECRET

Location: Exportable (U/W or Inport) Length: 1 Day

Periodicity: As requested.

Purpose: AEGIS Core Doctrine familiarization.

Audience: CO, XO, TAO, OPS, CSO, WEPS, STO, RSC Operators, AWC, CSC, TIC, and CICWO personnel.

Scope: Course emphasizes the complex human, SPY-1 Radar, and C&D doctrine interaction against various high threat targets. Outlines Doctrine Review Board organization and processes.

Prerequisites: Familiarization with CIC operations during target engagements, utilizing SPY-1 radar and C&D doctrine methodology.

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system VAP.
2. Classified material storage for overnight storage of publications.
3. Commanding Officer's Doctrine Notebook.
4. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0010 AEGIS COMBAT SYSTEM

Section 1. Introduction to and Theory of AEGIS COMBAT SYSTEM Core Doctrine (Tactics)

Topic 1. Functional Description of the AEGIS Combat System SPY Core Doctrine (Tactics)

Topic 2. Functional and Operational Description of the Aegis Combat System C&D Core Doctrine (Tactics)

Course Title: ACS DATA EXTRACTION/DATA REDUCTION - TACTICAL UTILITY FUNCTION (DX/DR-TUF)

SBIN: T0010-9-08 Course Security: SECRET

Location: Exportable (Inport) Length: 3 Days

Periodicity: Prior to CART II/TSTA/POT&T/PRT&T, and as requested.

Purpose: Provide Computer Central Operators/Technicians with the knowledge to utilize the AEGIS Tactical Executive System (ATES) and Tactical Utility Function (TUF) in support of normal and casualty computer room operations. Provide the knowledge to utilize the Data Recording Function utility to perform and decode octal dumps in support of AEGIS Combat System analysis.

Audience: FC Computer Technicians (NEC 1144) (AN/UYK-43 Computers)

Scope: Course is designed to provide refresher training to fleet units during or after a significant crew changeover or when refresher training is deemed necessary. Training covers the capabilities and limitations of the AEGIS Tactical Executive System and Tactical Utility Function incorporated into the computer program.

Prerequisites: Recommended NEC 1144

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Dedicated system time (Computer Room) and scratch pack for Tactical Disk Initialization/Restore. C&D, SPY and WCS pre-recorded data tapes.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0010 AEGIS COMBAT SYSTEM

Section 1. Introduction to the ACS DXDR-ATES-TUF

Topic 1. General Description of the ACS DXDR-ATES-TUF

Topic 2. Documentation Description of the ACS DXDR-ATES-TUF

Section 2. Introduction to and Basic Operation of the ACS ATES

Topic 1. General and Functional Description of the ACS ATES

Topic 2. Operational Description of ACS ATES/DATA RECORDING

Topic 3. Basic Operation of ACS ATES/DATA RECORDING

Section 3. Introduction to and Basic Operation of ACS TUF

Topic 1. General and Functional Description of the ACS TUF

Topic 2. Operational Description of ACS TUF/DATA REDUCTION

Topic 3. Basic Operation of ACS TUF/DATA REDUCTION

Section 4. Introduction to and Basic Operation of ACS PMA

Topic 1. General, Functional and Operational Description of the ACS PMA

Topic 2. Basic Operation of ACS PMA

Course Title: COMBAT SYSTEMS TRAINING TEAM (CSTT)

SBIN: T0040-9-01 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: During Overhaul/SRA, provided ACS is operational or prior to CART II/TSTA. Note for PRECOM units: CSTT will be taught prior to PRECOM CICTT, and as requested.

Purpose: Provide the CSTT (Tactical and Technical) with the information required to effectively develop and conduct scenario training exercises. Includes CIC and Combat Systems preparation, package development, and evaluation of training evolution's utilizing embedded training devices.

Audience: All Tactical and Technical CSTT members designated in writing IAW COMNAVSURFLANT/PAC 3502.2 Series (Surface Force Training Manual)

Scope: Provide the CSTT with knowledge and practical instruction to include: CSTT duties and responsibilities; training device assets and setup; content/development of scenario exercise packages; briefing, execution, debriefing, and record keeping.

Prerequisites: CSTT personnel designated in writing or under instruction.

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Student roster to include name, rate/rank and SSN.
3. Dedicated system time for days three through five.
4. Note taking materials for all trainees. Training Guide provided.

Topical Outline:

PART T0040 AEGIS COMBAT SYSTEMS MANAGEMENT

Section 1. AEGIS Combat Systems Training Team

- Topic 1. Introduction/Overview
- Topic 2. Knowledge and Comprehension of Organization
- Topic 3. Knowledge and Comprehension of Available Training Assets
- Topic 4. Knowledge and Comprehension of Current Fleet Issues
- Topic 5. Knowledge and Comprehension of CSOSS and Casualty Drill Guides
- Topic 6. Knowledge and Comprehension of Tactical Scenario Development/Briefing
- Topic 7. Knowledge and Comprehension of CSCCE Scenario Development/Briefing
- Topic 8. Knowledge and Comprehension of Scenario Execution
- Topic 9. Knowledge and Comprehension of Scenario Debriefing
- Topic 10. Application of Scenario Development/Brief
- Topic 11. Application of Scenario Set-Up
- Topic 12. Application of Scenario Brief, Execution and Debrief

Course Title: COMBAT SYSTEMS OPERATIONAL SEQUENCING SYSTEM (CSOSS) STAGE II

SBIN: T0012-9-02 Course Security: SECRET

Location: Exportable (U/W or Inport) Length: 5 Days

Periodicity: During TSTA, and as requested.

Purpose: Provide the Combat Systems Training Team (Tactical and Technical) the knowledge to develop, plan, brief, execute and debrief a scripted Combat Systems Tactical Exercise (CSTE) utilizing the AEGIS Combat Training System (ACTS) in conjunction with Combat Systems Casualty Control Exercises (CSCCEs). Course includes classroom instruction on the CSOSS organization and procedures to be followed during casualty control training.

Audience: Ships CSTT (Tactical and Technical), Condition III CIC watchstanders, CSOOWs, Area Supervisors, Maintenance Men and CSOSS users.

Scope: Train the ship's CSTT in development and conduct of training packages, evaluation, critiquing and walk-through training on casualty insertion. During Condition III, CIC teams are provided with tactical training, response to casualties and development of communication skills.

Prerequisites: 1. Combat Systems Training Team (CSTT) training.

Support Requirements:

1. Notify ATRCD of any required/missing ACTS scenarios.
2. Classroom with overhead projector/PowerPoint projection system and VAP.
3. Condition III, Two- section watchbill to be provided at inbrief.
4. Dedicated system time: Entire ACS for days two through five.
5. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0012 AEGIS COMBAT SYSTEMS MANAGEMENT

Section 1. AEGIS Combat Systems Management

- Topic 1. Knowledge and Comprehension of AEGIS Combat System Maintenance Person
- Topic 2. Knowledge and Comprehension of AEGIS Combat System Management CSOOW/Area Supervisor
- Topic 3. Knowledge and Comprehension of AEGIS Combat System CIC Watchstander
- Topic 4. Knowledge and Comprehension of AEGIS Combat System Battleshort (CG)
- Topic 5. Knowledge and Comprehension of AEGIS Combat System (DDG)

Section 2. AEGIS Combat Systems Management

- Topic 1. AEGIS Combat Systems Management

Course Title: AEGIS ELECTRONIC COOLING WATER SYSTEMS

SBIN: T2305-9-01 Course Security: UNCLASSIFIED

Location: Exportable (Inport) Length: 2 Days

Periodicity: During TSTA, or as requested.

Purpose: Provide Combat Systems technicians with the knowledge required to effectively operate and maintain AEGIS water cooling systems.

Audience: FC, ST and ET personnel responsible for maintenance of the Cooling Skids.

Scope: Introduction to the AEGIS water skids to include: maintenance philosophy, water systems, heat exchanger and pump changeover, operational description of the control panel and lessons learned.

Prerequisites: None

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Operational Water Skids on day two.
3. Student roster to include name, rate/rank and SSN.

Topical Outline:

PART T2305 AEGIS ELECTRONIC EQUIPMENT WATER COOLER

Section 1. Theory of the AEGIS Electronic Equipment Water Cooler

Topic 1. General, Physical and Functional Description of AEGIS Electronic Equipment Water Cooler

Topic 2. Interface Description of AEGIS Electronic Equipment Water Cooler

Topic 3. Operational Description of AEGIS Electronic Equipment Water Cooler

Topic 4. Maintenance Description of AEGIS Electronic Equipment Water Cooler

Course Title: MK 84 FREQUENCY CONVERTER CABINET OPERATION AND MAINTENANCE

SBIN: T2301-9-01 Course Security: UNCLASSIFIED

Location: Exportable (Inport) Length: 5 Days

Periodicity: Prior to CART II/TSTA, and as requested.

Purpose: Provide refresher training to the FCS/ORTS Technicians (NEC 1106/1143) on the operation and maintenance of the MK 84 Static Frequency Converter Group. Designed to provide the technician with the knowledge to operate, troubleshoot, repair and maintain the MK 84 Static Frequency Converter (SFC).

Audience: FCS/ORTS Technician (NEC 1106/1143)

Scope: Course is designed to provide refresher training to fleet units during or after a significant crew changeover or when refresher training is deemed necessary. NOTE: This course does NOT support the air-cooled solid-state frequency converters.

Prerequisites: None

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Student roster to include name, rate/rank and SSN.

Topical Outline:

PART T2301 400HZ POWER SUPPLY MK 84

Section 1. Introduction to and Theory of the 400 HZ Power Supply MK 84

- Topic 1. General, Documentation and Maintenance Description of 400 HZ Power Supply MK 84
- Topic 2. Physical and Functional Description of 400 HZ Power Supply MK 84
- Topic 3. Interface Description of 400 HZ Power Supply MK 84
- Topic 4. Maintenance Description of 400 HZ Power Supply MK 84

PART 2307 400 HZ POWER PROTECTION EQUIPMENT (PPE) MK 205

Section 1. Introduction to and Theory of the 400 HZ PPE MK 205

- Topic 1. General and Documentation Description of PPE MK 205 Split Bus Controller
- Topic 2. Physical and Functional Description of PPE MK 205 Split Bus Controller
- Topic 3. Functional Description of PPE MK 205 Split Bus Controller
- Topic 4. Interface Description of PPE MK 205 Split Bus Controller
- Topic 5. General and Documentation Description of 400 HZ PPE
- Topic 6. Physical and Functional Description of 400 HZ PPE
- Topic 7. Maintenance Description of 400 HZ PPE

Course Title: AEGIS RADIO COMMUNICATION SYSTEM TEAM TRAINING (ARCSTT) Shipboard

SBIN: T0028-9-01 Course Security: SECRET

Location: Exportable (U/W or Inport) Length: 5 or 10 Days

Periodicity: During TSTA and as requested.

Purpose: To provide selected Officer and Enlisted personnel with the knowledge and skills required to operate and perform basic corrective maintenance on the AEGIS Radio Communication System (ARCS).

Audience: COMMO, EMO, ITs and ETs (Communications)

Scope: Provide the knowledge and skills required to enable all members of the Radio Communications Team to efficiently operate and conduct basic corrective maintenance on the ARCS under normal, reduced, degraded, and abnormal conditions.

Prerequisites: None

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system, VCR and VAP.
2. Dedicated system time: ARCS.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0028 AEGIS RADIO COMMUNICATION SYSTEM MANAGEMENT (ARCS)

Section 1. ARCS Management

- Topic 1. Comprehension of (ARCS)
- Topic 2. Comprehension of Voice Circuits and Operational Description of ARCS
- Topic 3. Application of Voice Circuits
- Topic 4. Comprehension of Teletype Circuits
- Topic 5. Application of Teletype Circuits
- Topic 6. Comprehension of High Data Rate Circuits
- Topic 7. Application of High Data Rate Circuits and Performance of ARCS Management

Course Title: ACS DATA EXTRACTION/DATA REDUCTION/AEGIS TACTICAL UTILITY SYSTEM (DX/DR-ATUS)

SBIN: T0010-9-10 Course Security: SECRET

Location: Exportable (Inport) Length: 3 Days

Periodicity: Prior to CART II/TSTA/PRT&T, and as requested.

Purpose: Provide Computer Central Operators/Technicians with the knowledge to utilize the AEGIS Tactical Executive System (ATES) and AEGIS Tactical Utility System (ATUS) in support of normal and casualty computer room operations. Provides the knowledge to utilize the Data Recording Function utility to perform and decode recorded data in support of AEGIS Combat System analysis.

Audience: Recommended NEC 1114

Scope: Course is designed to provide refresher training to fleet units during or after a significant crew changeover or when refresher training is deemed necessary. Training covers the capabilities and limitations of the ATES and ATUS incorporated into the computer program.

Prerequisites: None

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Dedicated system time: Computer Room and scratch pack for Tactical Disk Initialization/Restore.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0010 AEGIS COMBAT SYSTEM (ACS)

Section 1. Introduction to ACS DXDR-ATES-ATUS

Topic 1. General and Functional Description of ACS DXDR-ATES-ATUS

Topic 2. Documentation Description of the ACS DXDR-ATUS-ATES

Topic 3. Operational Description of the ACS DXDR-ATES

Topic 4. Operational Description of the ACS DXDR-ATUS

Section 2. Basic Operation of the ACS DXDR-ATES-ATUS

Topic 1. Basic Operation of the ACS DXDR-ATES

Topic 2. Basic Operation of the ACS DXDR-ATUS

Course Title: AN/SPY-1 (SERIES) RADAR SYSTEM ADVANCED OPERATIONS

SBIN: T0100-9-04 Course Security: SECRET

Location: Part 1: Exportable (Inport) Length: Varies
Part 2: Exportable (Underway)

Periodicity: Prior to CART II/TSTA, and as requested.

Purpose: Part 1: Provides operators with numerous displays of Electronic Attack (EA) and the effects on console displays and target tracking capabilities.
Part 2: Provides one on one instruction during live operation of radar.

Audience: RSC and CSC operator recommended.

Scope: Trains operators on the capabilities and limitations of the AN/SPY-1 Radar in adverse environments. Onboard (Inport) instruction includes showing the effects of EA on the AN/SPY-1 RADAR through the Basic Electronic Environmental Simulator (BEES) Box and/or the Distributed Sensor Simulation System (DS3).

Prerequisites: None

Support Requirements:

- Part 1: 1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. AN/SPY-1 Radar System operational (not in radiate) for day two and three.
3. Student roster to include name, rate/rank, SSN and clearance data.
- Part 2: 1. Underway operation with AN/SPY-1 Radar on-line, radiating and available for trainees to experiment with various settings.

Topical Outline:

PART T0100 RADAR SYSTEM AN/SPY-1 (Series)

- Section 1. Introduction to Radar System AN/SPY-1 (Series)
 - Topic 1. Operational, Documentation, and Interface Description of Radar System AN/SPY-1 (SERIES)
 - Topic 2. Functional Description of Radar System AN/SPY-1 (Series) Search Processing
 - Topic 3. Functional Description of Radar System AN/SPY-1 (Series) Detection Processing
 - Topic 4. Functional Description of Radar System AN/SPY-1 (Series) Moving Target Indicator (MTI)
 - Topic 5. Functional Description of Radar System AN/SPY-1 (Series) Track Processing
- Section 2. Operational Description and Operation of the Radar System AN/SPY-1 (Series)
 - Topic 1. Operational Description of Radar System AN/SPY-1 (Series) Loading
 - Topic 2. Operational Description of Radar System AN/SPY-1 (Series) Control Features
 - Topic 3. General Description of Radar System AN/SPY-1 (Series) Electronic Attack/Protection

Course Title: NON-TACTICAL DATA COLLECTION (NTDC) PATCH

SBIN: T0012-9-05 Course Security: SECRET

Location: Exportable (Inport) Length: 3 Hours

Periodicity: As requested.

Purpose: Familiarization with Non-Tactical Data Collection Patch and associated missions.

Audience: CO, XO, DEPT HEADS, STO, CSMM, TAO, AWC, CSC, RSC, CICO, TIC, and Computer Room personnel.

Scope: 1. Provide overview of NTDC operational mission, history, lessons learned, organization and support.
2. Emphasizes SPY-1 radar, C&D, and ADS. Computer program changes to support detection, tracking, data recording, and display of TBM tracks.

Prerequisites: None

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Security container for storage of SECRET training material.
3. Student roster to include names, rate/rank, SSN and clearance data.

Topical Outline:

PART T0100/1 RADAR SYSTEM AN/SPY-1 (Series)

Section 1. Theory of the Radar System AN/SPY-1 (Series)

Topic 1. General, Functional, and Operational Description of the Radar System AN/SPY-1 (Series)

PART T0100/2 RADAR SYSTEM AN/SPY-1 (Series)

Section 1. Theory of the Radar System AN/SPY-1 (Series)

Topic 1. General, Functional, and Operational Description of the Non-Tactical Data Collection (NTDC) Patch

PART T0200 AEGIS COMMAND AND DECISION SYSTEM

Section 1. Theory of the AEGIS Command and Decision System

Topic 1. General, Functional, and Operational Description of the Command and Decision System

PART T3300 AEGIS DISPLAY SYSTEM

Section 1. Introduction to AEGIS Display System

Topic 1. General, Functional, and Operational Description of the AEGIS Display System

Course Title: EHF SATCOM OPERATOR COURSE

SBIN: D1678-10-01 Course Security: SECRET

Location: Exportable (U/W or Inport) Length: 5 Days

Periodicity: As requested.

Purpose: Provide selected Officers and Enlisted personnel with the knowledge and skills required to operate the NAVY EHF SATCOM PROGRAM (NESP).

Audience: COMMO, EMO, RMs and ETs (Communications)

Scope: Provide refresher training to enable all members of the Radio Communications Team to efficiently operate the EHF SATCOM system under normal conditions.

Prerequisites: Graduate of ET/RM "A" school and Extremely High Frequency (EHF) SATCOM Program (NESP) Operator Course A-260-0066.

Support Requirements:

1. Classroom with PowerPoint projection system, VCR and VAP/chalkboard.
2. Dedicated system time: EHF System/Ship coordinated live EHF support.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART D1678/1 NAVY EHF SATCOM PROGRAM (NESP)

Section 1. Introduction to NESP

- Topic 1. General and Functional Description of NESP
- Topic 2. Operational Description of NESP (Setup and Satellite Acquisition)
- Topic 3. Operational Description of NESP (Establishing Communications)
- Topic 4. Operational Description of NESP (Managing Communications)

PART D1679 COMMUNICATIONS EQUIPMENT GROUP (CEG)

Section 1. Introduction to Communications Equipment Group (CEG)

- Topic 1. General, Physical, and Functional Description of Communications Equipment Group (CEG)

PART D1680 HIGH POWER AMPLIFIER

Section 1. Introduction to High Power Amplifier

- Topic 1. General, Physical, and Functional Description of High Power Amplifier

PART D1681 ANTENNA GROUP OE-499, 500, 501/USC-38

Section 1. Introduction to Antenna Group OE-499, 500, 501/USC-38

- Topic 1. General and Physical Description of Antenna Group OE-499, 500, 501/USC-38 NESP

PART D1678/2 NAVY EHF SATCOM PROGRAM (NESP)

Section 1. Basic Operation of NESP

- Topic 1. Basic Operation of NESP

Course Title: AMPHIBIOUS AIR DEFENSE OPERATIONS

SBIN: T0032-9-01 Course Security: CONFIDENTIAL

Location: Exportable (Inport) Length: 4 Days

Periodicity: After FEP, FADC (Shipboard Training), Prior to COMPTUEX, or as requested.

Purpose: CIC Watchstanders who have received training as CIC operators for AEGIS ships with required knowledge to function as an Amphibious Readiness Group Air Defense ship.

Audience: FADC (Shipboard Training), TAO, Green Crowns, and all AW watchstanders.

Scope: Course will train CIC condition III watch teams in Amphibious Air Defense procedures, providing the AW team with requisite knowledge and skills for the ship to function as Amphibious Readiness Group Air Defense ship in a multi-threat environment.

Prerequisites: Force Air Defense Commander (Shipboard Training), OCI.

Support Requirements:

1. Classroom with overhead projector/PowerPoint projections system and VAP. (Day 1)
2. Dedicated system item: SPY, WCS, OBT, AN/SLQ-32, ADS, ACTS, and C&D.
3. Dummy R/T circuits: TF/TG Command, FAW C&R, SAW C&R, MAD/IAD, AW Intersector Net, TAD Net.
4. Require the following Watchstations attend both the classroom lessons and scenarios; Force TAO, Force AIR, Red Crown/Green Crown, TAO, CSC, RSC, AIR, AIC, TIC, IDS, EWS, EWCO, ARC, MSS. Goal is train Condition III Watchstanders.
5. Student roster to include name, rate/rank, SSN, clearance data, and PRD.

Topical Outline:

PART T0032 AMPHIBIOUS AIR DEFENSE COORDINATOR

Section 1. Amphibious Air Defense Knowledge

- Topic 1. Amphibious Air Defense Overview
- Topic 2. Amphibious Aircraft Capabilities and Limitations
- Topic 3. Amphibious Platforms Capabilities and Limitations
- Topic 4. Amphibious Air Space Management

Section 2. Amphibious Air Defense Application

- Topic 1. Performance of Amphibious Air Defense

Course Title: 400HZ AIR COOLED SOLID STATE FREQUENCY CONVERTER

SBIN: T2308-9-01 Course Security: UNCLASSIFIED

Location: Exportable (Inport) Length: 5 Days

Periodicity: Prior to CART II/TSTA, and as requested.

Purpose: Provide refresher training to the FCS/ORTS Technicians (NEC 1106/1143) on the operation and maintenance of the MK 84 Static Frequency Converter Group. Designed to provide the technician with the knowledge to operate, troubleshoot, repair and maintain the MK 84 Static Frequency Converter (SFC).

Audience: FCS/ORTS Technician (NEC 1106/1143)

Scope: Course is designed to provide refresher training to fleet units during or after a significant crew changeover or when refresher training is deemed necessary. NOTE: This course does NOT support the Water Cooled Solid State Frequency Converters.

Prerequisites: N/A

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Student roster to include name, rate/rank and SSN.
3. A minimum of two working ACSSFC (Certified operational in a split bus configuration).

Topical Outline:

PART T2308 400HZ AIR COOLED SOLID STATE FREQUENCY CONVERTER

Section 1. Theory of the 400HZ Air Cooled Solid State Frequency Converter

Topic 1. General and Documentation Description of the 400HZ Air Cooled Solid State Frequency Converter

Topic 2. Physical and Functional Description of the 400HZ Air Cooled Solid State Frequency Converter

Topic 3. Interface Description of the 400HZ Air Cooled Solid State Frequency Converter

Section 2. Theory and Operation of the 400HZ Air Cooled Solid State Frequency Converter

Topic 1. Operational Description of the 400HZ Air Cooled Solid State Frequency Converter

Topic 2. Basic Operation of the 400 HZ Air Cooled Solid State Frequency Converter

Section 3. Theory and Maintenance of 400HZ Air Cooled Solid State Frequency Converter

Topic 1. Maintenance Description of 400HZ Air Cooled Solid State Frequency Converter

Topic 2. Preventive Maintenance of 400HZ Air Cooled Solid State Frequency Converter

Topic 3. Basic Corrective Maintenance of the 400HZ Air Cooled Solid State Frequency Converter

Course Title: AN/SPY-1 PERSONAL COMPUTER (PC) APPLICATIONS

SBIN: T0041-9-01 Course Security: SECRET

Location: Exportable (Inport) Length: 1 Day

Periodicity: As requested

Purpose: This will provide Radar System Controller (RSC) operators the knowledge and skills to create, modify, and display Dynamic Test Targets (DTT) using personal computer (PC)-based programs: DYNAMIC TEST TARGET GENERATOR, DYNAMIC TEST TARGET DRAW, THEATER BALLISTIC MISSILE GENERATOR, SPY SLIDERULE, EVAPORATIVE DUCT PROGRAM, AND ADVANCED REFRACTIVE EFFECTS PREDICTIONS SYSTEM in order to support normal operations, baseline testing, and tactical planning missions.

Audience: RSC and CSC operator recommended.

Scope: This course was developed with the Radar System Controller (RSC) operator in mind, but is applicable to other operators who need to plan and execute detailed target tracking missions.

Prerequisites: NEC 1107/1119/1108/1104.

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. AN/SPY-1 Radar System operational (not in radiate).
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0041 AN/SPY-1 PERSONAL COMPUTER APPLICATIONS

Section 1. AN/SPY-1 Personal Computer Applications

- Topic 1. General Description of AN/SPY-1 Applications
- Topic 2. Operational Description and Operation of AN/SPY-1 PC Applications Target (DTT) Single Leg
- Topic 3. Operational Description and Operation of AN/SPY-1 PC Applications Dynamic Test Target (DTT) Draw Program
- Topic 4. Operational Description and Operation of AN/SPY-1 PC Applications Theater Ballistic Missile Generator (TBMGEN)
- Topic 5. Operational Description and Operation of AN/SPY-1 PC Applications (SPY TOOLS) Utilities
- Topic 6. Operational Description and Operation of AN/SPY-1 PC Applications (SPY SLIDERULE) Application
- Topic 7. Operational Description and Operation of AN/SPY-1 PC Applications Application (Advanced Refractive Effects Prediction System)

Course Title: AEGIS UNIX TRAINING

SBIN: T0034-9-01

Course Security: SECRET

Location: Exportable (Inport)

Length: 5 Days

Periodicity: As requested

Purpose: This will provide an understanding of the knowledge required to perform all tasks/function skills on the UNIX OPERATING SYSTEM. This specialized brief will describe the theory and associated documentation to understand the performance of normal operational tasks with the AEGIS Combat System to include the AEGIS Operational Readiness Test System (ORTS), Shipboard Gridlock System (SGS), Advanced Display System Console OJ-720(V)UYQ-70(V) and associated components.

Audience: AEGIS Computer (NEC 1143) and Display (NEC 1335) personnel recommended.

Scope: This course was developed with the intent to support networking validity and maintenance of UNIX based LANS. The course includes networking standards, protocols, and the UNIX operating system and its tools to support casualty maintenance of the AWS LAN and its associated interfaces.

Prerequisites: NEC 1143/1119/1108/1104/1118/1335

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Dedicated system time: C&D and ADS.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0034 AEGIS UNIX Training

Section 1. Introduction and Operation of the UNIX Operating System

Topic 1. General, Functional, Operational, and Documentation Description of UNIX Operating System

Topic 2. Performance of UNIX Operating System

Section 2. Introduction and Operation of UNIX Operating System

Topic 1. Functional and Operational Description of UNIX Operating System

Topic 2. Performance of UNIX Operating System

Topic 3. Interface Description of UNIX Operating System

Topic 4. Maintenance Description of UNIX Operating System

Topic 5. Performance of UNIX Operating System

Course Title: AEGIS COMMON DATA LINK MANAGEMENT SYSTEM (CDLMS) MANAGEMENT SYSTEM

SBIN: T0227-9-01 Course Security: SECRET

Location: Exportable (Inport) Length: 5 Days

Periodicity: As requested

Purpose: This will provide an understanding of the knowledge required to operate and maintain the Common Data Link Management System. This specialized brief will describe the theory and associated documentation to understand the performance of normal operational and maintenance tasks with the AEGIS Combat System.

Audience: AEGIS Computer (NEC 1143) and Display (NEC 1335) personnel recommended.

Scope: This course was developed with the intent to support the tasks involved in CDLMS setup, initialization, JTIDS operation, data extraction and corrective maintenance of the system and its' consoles.

Prerequisites: NEC 1143/1119/1108/1104/1118/1335

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Dedicated system time: C&D, ADS, EXCOM
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0227-9-01 COMMON DATA LINK MANAGEMENT SYSTEM (CDLMS)

Section 1. CDLMS

- Topic 1. Introduction and Theory of the CDLMS
- Topic 2. Physical and Functional Description of the CDLMS
- Topic 3. Interface Description of the CDLMS

Section 2. Introduction and Theory of the CDLMS

- Topic 1. Operational Description of CDLMS
- Topic 2. Operation of CDLMS

Section 3. Introduction, Theory and Maintenance of the CDLMS

- Topic 1. Maintenance Description of CDLMS
- Topic 2. Preventive Maintenance of CDLMS
- Topic 3. Basic Corrective Maintenance of CDLMS

Course Title: AIR DEFENSE PLANNER

SBIN: T0025-9-02 Course Security: SECRET

Location: Exportable (Inport) Length: 1 Day

Periodicity: As requested

Purpose: This will provide training to senior Battle Group Air Defense Planners the required knowledge and resources to execute the duties as Air Defense Commander.

Audience: Senior Battle Group Staff and shipboard Air Defense Planners.

Scope: This course was developed to train Senior Battle Group Staff Air Defense Planners the required knowledge and resources to execute the duties as Air Defense Commander.

Prerequisites: None

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0025 AIR DEFENSE PLANNING (ADP)

Section 1. ADP for Force Air Defense Commander (FADC)

Topic 1. ADP Duties and Responsibilities

Topic 2. Air Defense Plan

Topic 3. TADIL Considerations

Topic 4. Identification Considerations

Topic 5. ADP Notional Timeline/Wrap-up

Section 2. ADP Execution for FADC

Topic 1. ADP Execution

Course Title: TUF/X UTILITIES

SBIN: T0010-9-11 Course Security: SECRET

Location: Exportable (Inport) Length: 1 Day

Periodicity: As requested

Purpose: Provide AEGIS Computer Network Technicians and supervisors with the knowledge to utilize TUF/X Utilities in support of normal and casualty operations.

Audience: NEC 1104/1105/1335

Scope: This training will provide a method of easily performing routine administrative tasks listed below:
- Synchronizing system date and time,
- Mounting and dismounting removable devices,
- Formatting optical disks,
- Selecting compact disk changer compact disks,
- Backing up and restoring operator-entered files,
- Viewing and killing selected application processes,
- Rebooting adjunct processors and consoles,
- Updating the Airway database,
- Back up log files

Prerequisites: None

Support Requirements:

1. Classroom with overhead projector/PowerPoint projection system and VAP.
2. Dedicated system time: AEGIS Combat System and ORTS TMCL console, and LITT laptop computer.
3. Student roster to include name, rate/rank, SSN and clearance data.

Topical Outline:

PART T0010 AEGIS Combat System Tactical Utilities Function (TUF/X)

Section 1. Theory of the AEGIS Combat System TUF/X Utilities

Topic 1. General and Maintenance Description of the AEGIS Combat System TUF/X Utilities

Topic 2. Basic Corrective Maintenance Description of the AEGIS Combat System TUF/X Utilities

SECTION 4

RESPONSIVE TRAINING

Course Title: ATRCD RESPONSIVE TRAINING

SBIN: S-920-0006 Operation Course Security: Up to SECRET
S-920-0007 Maintenance

Location: Exportable Length: Variable

Periodicity: As requested.

Purpose: Provides the ship specific, flexible training not covered by the formal training offered in this catalog. Briefs available, not all inclusive:

1. Introduction and How to Use your Interactive Electronic Training Manuals
2. CPR Qualification
3. Training Officer Overview/Indoctrination
4. Disclosure/Releaseability Brief
5. SM-2 Performance Brief
6. SQQ-89 OBT Set-up Brief & Guidebook
7. Afloat Staff Aegis Training Brief (ASAT)
8. MK 53 Decoy Launching System (NULKA) Brief

Audience: Officer and Enlisted personnel.

Scope: All facets of the AEGIS Combat System and its operation.

Prerequisites: None

Support Requirements:

1. Training Devices: Various
2. Support Equipment or Publications Required: Various

AEGIS TRAINING AND READINESS CENTER & DETACHMENTS

POINTS OF CONTACT

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