

## AFSC 2A9X3X

# BOMBER/SPECIAL (B/S) ELECTRONIC WARFARE & RADAR SURVEILLANCE INTEGRATED AVIONICS



# CAREER FIELD EDUCATION AND TRAINING PLAN

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B/S ELECTRONIC WARFARE & RADAR SURVEILLANCE INTEGRATED  
AVIONICS  
AFSC 2A9X3X**

*Table of Contents*

	<i>Page</i>
<b>Preface .....</b>	<b>4</b>
<b>Abbreviations/Terms Explained.....</b>	<b>5</b>
 <b><u>PART I</u></b>	
<b><i>Section A--General Information.....</i></b>	<b>8</b>
Purpose of the CFETP	
Use of the CFETP	
Coordination and Approval of the CFETP	
<b><i>Section B--Career Progression and Information.....</i></b>	<b>9</b>
Specialty Descriptions	
Career Skill Progression	
Apprentice (3) Level	
Journeyman (5) Level	
Craftsman (7) Level	
Superintendent (9) Level	
Training Decisions	
Higher Education and Advanced Certification Opportunities	
Career Field Path	
Base/Unit Education and Training Manager Checklist	
<b><i>Section C--Skill Level Training Requirements .....</i></b>	<b>14</b>
Purpose	
Specialty Qualification Requirements	
Apprentice Level Training	
Journeyman Level Training	
Craftsman Level Training	
Superintendent Level Training	
<b><i>Section D--Resource Constraints .....</i></b>	<b>15</b>
<b><i>Section E--Transitional Training Guide .....</i></b>	<b>16</b>
 <b><u>PART II</u></b>	
<b><i>Section A--Specialty Training Standard.....</i></b>	<b>17</b>
<b><i>Section B--3-Level Course Training .....</i></b>	<b>18</b>
<b><i>Section C--Support Materials .....</i></b>	<b>19</b>
<b><i>Section D--Training Course Index.....</i></b>	<b>19</b>
<b><i>Section E--MAJCOM Unique Requirements.....</i></b>	<b>21</b>

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**B/S ELECTRONIC WARFARE & RADAR SURVEILLANCE INTEGRATED  
AVIONICS  
CAREER FIELD EDUCATION AND TRAINING PLAN  
AFSC 2A9X3X**

**PREFACE**

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources, and minimum core task requirements for 2A9X3X, B/S Electronic Warfare & Radar Surveillance Integrated Avionics specialty. The CFETP will provide personnel a clear career path to success and instills rigor in all aspects of career field training.

**NOTE:** Civilians occupying associated positions will use Part II to support duty position qualification training.

2. The CFETP consists of two parts. Supervisors will use both parts to plan, manage, and control training.

**2.1.** Part I provides information necessary for overall management of the specialty. Section A explains how everyone will use the plan. Section B identifies career field progression information, duties and responsibilities, training strategies, and career field path. Section C associates each level with specialty qualifications (knowledge, education, experience, training, and other). Section D indicates resource constraints to accomplishing this plan, such as funds, manpower, equipment, and facilities. Section E identifies transition training plans for the career field.

**2.2.** Part II includes the following: Section A identifies the Specialty Training Standard (STS) and includes duties, tasks, and technical references to support training. Air Education and Training Command (AETC) conducted training, core task and correspondence course requirements. Section B provides an explanation of AETC 3-Level Course Training. Section C identifies available proficiency training support materials. Section D identifies the Specialty Training Standard (STS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, wartime course/core task, and Career Development Course (CDC) requirements. Section E identifies MAJCOM unique training requirements supervisors can use to determine additional training required for the associated qualification needs. At unit level, supervisors and trainers will use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

## ABBREVIATIONS/TERMS EXPLAINED

**Advanced Training:** Formal course, which provides individuals who are qualified in their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of an AFS.

**Air Force Job Qualification Standard (AFJQS):** A comprehensive task list that describes a particular job type or duty position. Supervisors use the AFJQS to document task qualifications. The tasks of AFJQS are common to all persons serving in the described duty position.

**Bridge Course:** A formal or informal course, which allows the individual to expand their knowledge in another area of expertise.

**Career Development Course (CDC):** Self-study correspondence course to provide Airmen with fundamental knowledge of their AFSC.

**Career Field Education and Training Plan (CFETP):** A CFETP is a comprehensive, multipurpose document covering the entire spectrum of education and training for a career field. It outlines a logical growth plan that includes training resources and is designed to make career field training identifiable, to eliminate duplication, and to ensure this training is budget defensible.

**Certification:** A formal indication of an individual's ability to perform a task to required standards.

**Certification Official:** A person authorized by appropriate commander to determine an individual's ability to perform a task to required standards.

**Continuation Training:** This is additional training that exceeds minimum upgrade requirements and has an emphasis on present or future duty assignments.

**Core Task:** Tasks the AFSCM identify as minimum qualification requirements for everyone within an AFSC, regardless of duty position.

**Course Training Standard (CTS):** A formal course document that identifies in board terms the training members will receive in a specific course.

**Enlisted Specialty Training (EST):** A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade Airmen in each skill level of a specialty.

**Exportable Training:** Additional training via computer assisted, paper text, interactive video, or other necessary means to supplement training.

**Go/No Go Level:** In OJT, the stage at which an individual has gained enough skill, knowledge and experience to either be qualified to perform an identified task without assistance, or not.

**Field Technical Training (Type 4):** Special or regular on-site training conducted by a training detachment (TD) or by a mobile training team (MTT).

**Initial Skills Training:** A formal school course that results in the award of a 3-skill level AFSC.

**Instructional System Development (ISD):** A deliberate and orderly process for developing, validating, and reviewing instructional programs that ensures personnel are taught the knowledge and skills essential for successful job performance.

**Maintenance Information System (MIS):** Systems and applications that support and enable maintenance business processes. Used to document maintenance actions. Provides maintenance supervisors with products to evaluate organizational effectiveness and to aid in decision-making processes at all levels.

**Maintenance Supply Liaison (MSL):** Monitors overall maintenance and supply interface, resolves supply support problems, and coordinates supply-related training needs.

**Master Task Listing (MTL):** Document maintained within the workcenter that identifies all tasks performed in a workcenter. This includes core, critical position qualification and wartime tasks. This document can be automated.

**Master Training Plan (MTP):** A comprehensive workcenter training plan that may include MTLs QTPs, AFJQS, CFETP, task breakdowns, commercial publications and any other document that supports training.

**Mobile Training Team (MTT):** Instructors, trainers, training aids and operational equipment that formal schools send to bases or operating locations used to perform formal training.

**Occupational Analysis Report (OAR):** A detailed report showing the results of an occupational analysis of tasks performed within a particular AFSC.

**On-the-Job Training (OJT):** Hands-on, over-the-shoulder training at the duty location used to certify personnel for both skill level upgrade and duty position qualification.

**Position Qualification Training:** Training designed to qualify an airman in a specific position and is accomplished after upgrade training.

**Proficiency Training:** Additional training either in residence or exportable advanced training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade.

**Qualification Training (QT):** Actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skill/knowledge training required to do the job.

**Resource Constraints:** Resource deficiencies, such as money, facilities, time, manpower, or equipment that preclude desired training from being accomplished.

**Specialty Training Standard (STS):** An Air Force publication that describes an Air Force Specialty in terms of tasks and knowledge an airman may be expected to perform or to know on the job. It serves as a contract between AETC and the functional user to show which of the overall training requirements for an AFSC are taught in formal schools, Career Development Courses, and exportable courses.

**Standard:** An exact value, a physical entity, or abstract concept, established and defined by authority, custom, or common consent, to serve as a reference, model, or rule in measuring quantities or qualities. Standards are used to establish practices or procedures and to evaluate results.

**Supplemental Training:** Formal, standardized training within an AFSC that is in addition to required initial skills training and skill level upgrade training. It may support new/newly assigned equipment, methods, and/or technology.

**Task Certifier:** See Certification Official

**Training Detachment (TD):** An AETC detachment that provides maintenance oriented technical training, at an operational location, on specific systems and their aerospace ground equipment. A TD aims to qualify personnel on new equipment or in new techniques and procedures, maintain proficiency and increase skill and knowledge, acquaint personnel with specific systems, and keep personnel aware of changing concepts and requirements.

**Training Setting:** The type of forum in which training is provided (formal resident school, on-the-job, field training, mobile training team, self-study, etc.)

**Upgrade Training (UGT):** A mixture of mandatory courses, task qualification, QTPs, and CDCs required for award of the 3-, 5-, 7-, or 9-skill levels.

**Utilization and Training Workshop (U&TW):** A forum, co-chaired by the AF Career Field Manager and Training Pipeline Manager consisting of MAJCOM Air Force Specialty Code (AFSC) functional managers, Subject Matter Experts (SMEs), and AETC training personnel that determine career ladder training requirements.

## **PART I**

### ***Section A - GENERAL INFORMATION***

**1. Purpose of the CFETP.** This CFETP provides the information necessary for the AFCFM, MFMs, commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. The plan outlines the training that individuals in this AFSC should receive in order to develop and progress throughout their career. This plan identifies initial skills, upgrade, qualification, advanced and proficiency training. The CFETP also:

**1.1.** Lists training courses available in the specialty, identifies sources of training and the training delivery method.

**1.2.** Identifies major resource constraints that impact full implementation of the desired career field training process.

**2. Use of the CFETP.** This plan will be used by MFMs and supervisors at all levels to ensure comprehensive and cohesive training programs are available for each individual in the specialty.

**2.1.** AETC training personnel will develop or revise formal resident, non-resident, field, and exportable training based upon requirements established by the users and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.

**2.2.** MFMs will ensure their training programs complement the CFETP mandatory initial, upgrade, and proficiency requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable courseware/courses. MAJCOM developed training to support this AFSC must be identified for inclusion in this plan and must not duplicate other available training resources.

**2.3.** Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.

**3. Coordination and Approval of the CFETP.** The AFCFM is the approval authority. Also, the AFCFM will initiate an annual review of this document to ensure currency and accuracy. MFMs and AETC training personnel will identify and coordinate career field training requirements.

## **Section B - CAREER FIELD PROGRESSION AND INFORMATION**

### **4. Specialty Descriptions.**

#### **4.1. Specialty Shreds:**

*Suffix Portion of AFSC to Which Related*

- A..... E-3 Radar Surveillance
- B..... E-3 Computer/Electronic Warfare systems
- C..... E-8
- D..... RC-135/AFISRA and Carry-on EW Systems
- E..... B-1
- F..... B-2
- G..... B-52
- H..... EC-130 Compass Call
- J..... VC-25

\*Shreds drop at CAFSC 7-level

\*\*Avionics maintainers for the VC-25 may be directly hired from all heavy avionics AFSCs (2A2XX, 2A8XX and 2A9XX). There is no 3-level pipeline for this aircraft shred. When hired into the position their DAFSC will become the 2A9X2B shred. Upon release from VC-25 duty they can stay in the E-4 community or revert back to their original PAFSC.

**4.2. Specialty Summary.** Analyzes malfunctions, inspects, removes, maintains, and installs integrated avionics systems. Performs and supervises avionics maintenance and general aircraft servicing and handling. Related DoD Occupational Subgroup: 119800.

#### **4.2.1. Duties and Responsibilities.**

**4.2.1.1. B/S Electronic Warfare & Radar Surveillance Integrated Avionics Apprentice and Journeyman.** Operates and maintains electronic warfare, radar surveillance and computer systems on E-3, E-8, VC-25, RC-135, B-1, B-2, and B-52, EC-130 Compass Call aircraft and operates and maintains Air Force Intelligence, Surveillance and Reconnaissance Agency Systems as well as carry-on electronic warfare systems. Analyzes equipment operating characteristics to isolate malfunctions in avionics systems, radar, integrated test systems built-in-test (BIT), multiplexed data bus systems, recording systems, video display systems, mission computer systems, electronic warfare (EW) systems, sensors, communication, airborne warning and control systems (AWACS), networking systems, surveillance radar, joint surveillance target attack radar systems (JSTARS), and interrogator systems. Removes, installs, checks, and repairs avionics/ computer systems and line replaceable units (LRU). Diagnoses malfunctions using technical orders, schematics, wiring diagrams, integrated test systems and other test equipment. Removes, replaces, and repairs faulty system wiring, electrical connectors, antennas, transmission lines, and multiconductor cables. Modifies avionics systems according to technical publications. Updates operational logs, inspection records, aircraft forms, and automated maintenance systems. Performs and supervises alignment, calibration, and boresight of avionics systems. Uploads ground maintenance and operational software. Performs off-equipment maintenance on selected avionics LRUs and maintains peculiar support equipment (SE). Inspects and evaluates aircraft maintenance activities. Inspects and verifies operational status and configuration of

avionics systems and software. Records and ensures validity of entries into maintenance data collection and inspection systems. Resolves and assists units in solving maintenance and supply problems. Interprets and recommends corrective action to inspection findings. Plans, organizes and directs aircraft maintenance activities. Establishes methods and performance standards. Analyzes reports and maintenance plans. Directs operation and modification of standard operating procedures. Establishes priorities. Evaluates activities for compliance with directives. Supervises and assists in aircraft ground servicing, and launch/recovery operations. Reviews maintenance data collection summaries to determine trends and production effectiveness.

**5. Career Skill Progression.** Adequate training and timely progression from the apprentice to the superintendent skill level play an important role in the Air Force's ability to accomplish its mission. It is essential that everyone involved in training do their part to plan, develop, manage and conduct an effective training program. The guidance provided in this part of the CFETP will ensure each individual receives viable training at appropriate points in their career. Use table 8.1 **Enlisted Career Path** in conjunction with information below to manage career skill progression.

**5.1. Apprentice (3-level).** Upon completion of initial skills training, a trainee will work with a trainer to enhance their knowledge and skills. The apprentice will enter UGT using the CDC, and QT to progress in the career field. Minimum training times will be a total of 12 months for normal UGT and 9 months for retrainees. Once task certified, a trainee may perform the task unsupervised. Apprentices can be considered for appointment as unit trainers after completion of a formal trainer course.

**5.2. Journeyman (5-level).** Once upgraded to the 5-level, the journeyman will enter into continuation training to broaden their experience base by increasing their knowledge and skill in troubleshooting and solving more complex problems. Five-levels may be assigned job positions such as quality assurance and various staff positions. After having 48 months in the Air Force, 5-levels will attend Airman Leadership School (ALS) to enhance their Professional Military Education (PME). Five-levels will be considered for appointment as unit trainers. Individuals will use their CDCs to prepare for Weighted Airman Promotion testing. They should also consider continuing their education toward a Community College of the Air Force (CCAF) degree.

**5.3. Craftsman (7-level).** A craftsman can expect to fill various supervisory and management positions such as shift leader, element NCOIC, flight/section chief, and task certifier. They are the primary trainers of those trainees working toward advancement to the 5- and 7-skill levels. They can also be assigned to work in staff positions. Craftsmen should take courses to obtain added knowledge on management of resources and personnel. Minimum training times for UGT to the craftsman 7-skill level will be a total of 12 months for normal UGT and 6 months for retrainees. Continued academic education through CCAF and higher degree programs is encouraged. In addition, when promoted to TSgt, individuals will complete the Noncommissioned Officer Academy and MSgt selects are highly encouraged to complete the Senior NCO Academy by correspondence.

**5.4. Superintendent (9-level).** Before attaining the 9-skill level, individuals must be SMSgt. A 9-skill level is expected to fill positions such as flight chief, production supervisor, and various staff NCOIC jobs. Additional training in the areas of budget, manpower,

resources, and personnel management should be pursued through continuing education. Additional higher education and completion of courses outside their career AFSC are also recommended.

**6. Training Decisions.** The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the B/S Integrated Electronic Warfare & Radar Surveillance Systems Career Field. The spectrum includes a strategy for when, where, and how to meet these training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training. Refer to paragraph 10 of this document for a complete list of specialty qualification requirements.

**7. Higher Education and Advanced Certification Opportunities.** Higher education and advanced certification is a personal choice that is encouraged for the professional development of the entire Enlisted Force. Listed below are some current opportunities:

**7.1. Community College of the Air Force (CCAF) Academic Programs.** Enrollment in CCAF occurs upon completion of basic military training (BMT). CCAF provides the opportunity to obtain an Associate in Applied Sciences Degree. In addition to its associate degree program, CCAF offers the following:

**7.1.1. CCAF Instructor Certification.** CCAF offers the CCAF Instructor Certification (CIC) Program for qualified instructors who teach CCAF collegiate-level credit awarding courses at a CCAF affiliated school. The CIC is a professional credential that recognizes the instructor's extensive faculty development training, education and qualification required to teach a CCAF course, and formally acknowledges the instructor's practical teaching experience. Qualified officer, enlisted, civilian and other service instructors are eligible for this certification. The CIC Program replaced the CCAF Occupational Instructor Certification (OIC) Program, which officially closed on 1 January 2011.

**7.1.2. Professional Manager Certification (PMC) Program.** CCAF offers the PMC for qualified senior Air Force enlisted personnel who have demonstrated an advanced level of professional accomplishment. The purpose of the certification is to recognize the individual's outstanding education and training required to lead and manage Air Force personnel and critical national defense assets. The certification also formally acknowledges the individuals management qualifications and experience. Qualified Air Force enlisted personnel are eligible for this certification. To learn more and enroll in the program, visit CCAF's website at <http://www.au.af.mil/au/ccaf/certifications.asp>.

**7.1.3. FAA Airframe and Power Plant (A&P) Certification.** CCAF offers the Air Force A&P Certification Program for active duty, guard and reserve aircraft maintenance technicians in specific AFSCs. The program is designed to bridge gaps between Air Force education, training and experience and FAA eligibility requirements per Title 14, Code of Federal Regulations (CFR), Part 65.77. The program benefits the Air Force by broadening the skill sets and professional development of our technicians, producing a more skilled and diverse aircraft maintenance professional. The program directly supports the mission of CCAF in that FAA certification of our aircraft maintenance technicians enhances combat readiness, contributes to recruiting and retention and supports career transition of highly

skilled technicians. To learn more and enroll in the program, visit CCAF's website at <http://www.au.af.mil/au/ccaf/certifications.asp>.

**7.1.4. Other Certification Programs.** CCAF is actively pursuing other licensure and certification opportunities related to specific career fields. To learn more about other certification opportunities visit CCAF's website at <http://www.au.af.mil/au/ccaf/certifications.asp>.

**7.2. Degree Requirements:** All airmen are automatically entered into the CCAF program. Prior to completing an associate degree, the 5-level must be awarded and the following requirements must be met:

	Semester Hours
Technical Education.....	24
Leadership, Management, and Military Studies .....	6
Physical Education.....	4
General Education.....	15
Program Elective.....	15
Technical Education; Leadership, Management, and Military Studies; or General Education	
Total .....	64

**7.2.1. Technical Education (24 Semester Hours):** Credits earned through technical courses taken from AETC, including technical training and Field Training Detachment (FTD) classes.

**7.2.2. Leadership, Management, and Military Studies (6 Semester Hours):** Professional military education and/or civilian management courses.

**7.2.3. Physical Education (4 Semester Hours):** This requirement is satisfied by completion of Basic Military Training.

**7.2.4. General Education (15 Semester Hours):** Applicable courses must meet the criteria for application of courses to the General Education Requirements (GER) and be in agreement with the definitions of applicable General Education subjects/courses as provided in the *CCAF General Catalog*.

**7.2.5. Program Elective (15 Semester Hours):** Satisfied with applicable Technical Education; Leadership, Management, and Military Studies; or General Education subjects and courses, including natural science courses meeting GER application criteria. Six semester hours of CCAF degree-applicable technical credit otherwise not applicable to this program may be applied. See the *CCAF General Catalog* for details regarding the Associates of Applied Science for this specialty.

**7.3. AETC Instructor.** Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an AETC Instructor must possess as a minimum an associate degree or should be actively pursuing an associate degree. Special Duty Assignment (SDA) requires an AETC instructor candidate to have a CCAF degree or be within one year of completion (45 semester hours). A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools.

## 8. Career Field Path.

**8.1. Enlisted Career Path.** Table 8.1 identifies career milestones for the 2AXXX Air Force Specialty.

<b>Table 8.1 Enlisted Career Path</b>				
	<b>Grade Requirements</b>			
<b>Education and Training Requirements</b>	Rank	Average Sew-On	Earliest Sew-On	High Year Of Tenure (HYT)
<b>Basic Military Training School</b>				
<b>Apprentice Technical School (3-Skill Level)</b>	Amn A1C	6 months 16 months		
<b>Upgrade To Journeyman (5-Skill Level)</b> - Minimum 12 months on-the-job training. - Minimum 9 months on-the-job training for retrainees. - Complete all 5-level core tasks on one MDS. - Complete appropriate CDC if/when available.	Amn A1C SrA	6 months 16 months 3 years	28 months	8 Years
<b>Airman Leadership School (ALS)</b> - Must be a SrA with 48 months time in service or be a SSgt Selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).				
<b>Trainer</b> - Qualified and certified to perform the task to be trained. - Must attend formal OJT Trainer Course			<b>Certifier</b> - Be at least a 5-skill level SSgt; and qualified and certified to perform the task being certified - Attend formal OJT Trainer Course - Be a person other than the trainer except for AFSCs, duty positions, units and/or work centers with specialized training standardization and certification requirements.	
<b>Upgrade To Craftsman (7-Skill Level)</b> - Minimum rank of SSgt. - Minimum 12 months on-the-job training. - Minimum 6 months on-the-job training for retrainees. - Complete all 5- and 7-level core tasks on one mission design aircraft. - Complete appropriate CDC if/when available. - Attend Craftsman course, if applicable.	SSgt	5.1 years	3 years	15 Years
<b>Noncommissioned Officer Academy (NCOA)</b> - Must be a TSgt or TSgt Selectee. - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt MSgt	11.1 years 16.8 years	5 years 8 years	20 Years 24 Years
<b>USAF Senior NCO Academy (SNCOA)</b> - Must be a MSgt or SMSgt Selectee. - Resident graduation is a prerequisite for SMSgt sew-on (Active Duty Only).				
<b>Upgrade To Superintendent (9-Skill Level)</b> - Minimum rank of SMSgt.	SMSgt	21 years	11 years	26 Years
<b>Chief Leadership Course</b> - CMSgt or CMSgt selectee	CMSgt	24 years	14 years	30 Years

## ***Section C - SKILL LEVEL TRAINING REQUIREMENTS***

**9. Purpose.** Skill level training requirements in this specialty are defined in terms of tasks and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in broad, general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific tasks and knowledge training requirements are identified in the STS, Part II, Section A and B of this CFETP.

**10. Specialty Qualification Requirements.** MAF Integrated Electronic Warfare Systems apprentice, journeyman, craftsman, and superintendent (ref. AFECD found on the AFPC website).

**10.1. Knowledge.** Knowledge is mandatory of: interpreting and applying mechanical, wiring, and electronic circuit diagrams; electronic, micro-processor, data bus, and mechanical principles theory and application; theory of flight; gyros, synchros, indicators, memory storage devices, antennas, servomechanisms, electromechanical, electro-hydraulic, and electro-optical devices; radar, radio frequency communication, surveillance radar and interrogator systems, pulse Doppler radar theory, dependent navigation aids, inertial and radar navigation, electronic countermeasure transmitters and receivers; lasers, infrared/ultraviolet receivers; optics, automatic flight controls, instruments, multiplexing, fire control, video display, and digital computer systems working principles; subsystem tie-in between integrated avionics systems; using and interpreting testing and measuring devices; principles of motion and power transmission by fluid, mechanical and electrical means; and concepts and application of maintenance directives.

**10.2. Education.** For entry into this specialty, completion of high school with courses in physics, computers, and mathematics is desirable.

**10.3. Training.** The following training is mandatory for award of the AFSC indicated:

**10.3.1. 2A933X.** Completion of the applicable basic avionics systems courses is mandatory.

**10.3.2. 2A953X.** Requirements for the Journeyman level require completion of the 5-level CDC and qualification on the core tasks specified in the STS.

**10.3.3. 2A973.** Requirements for the Craftsman level require completion of the 7-level CDC (2AX7X), completion of Advanced Wiring Maintenance Course J4AMP3000 A48A, PDS ZIZ (per MMCL as it becomes available at the local FTD) and qualification on the core tasks specified in the STS.

**10.3.4. 2A590.** No formal training requirements established.

**10.4. Experience.** The following experience is mandatory for award of the AFSC indicated:

**10.4.1. 2A953X:** Qualification in and possession of AFSC 2A933X. Also, experience isolating malfunctions, removing and installing LRUs, and use of test and ground SE.

**10.4.2. 2A973:** Qualification in and possession of AFSC 2A953X, experience performing or supervising functions such as analyzing and isolating integrated avionics systems malfunctions and using test equipment..

**10.4.3. 2A590:** Qualification in and possession of AFSC 2A973 is mandatory. Also, experience is mandatory managing or directing functions such as inspecting or maintaining aircraft, helicopters, or avionics systems

#### **10.5. Other.**

**10.5.1.** Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*. Specialty requires routine access to Secret material or similar environment.

**10.5.2.** For award and retention of AFSCs 2A9X3X, requires completion of a current National Agency Check, Local Agency Checks and Credit (NACLC) according to AFI 31-501, *Personnel Security Program Management*.

**NOTE:** Award of the 3-skill level without a completed NACLC is authorized provided an interim NACLC has been granted according to AFI 31-501

**10.5.3.** Must maintain an Air Force Network License according to AFI 33-115, Vol 2, *Licensing Network Users and Certifying Network Professionals*.

**10.6. Training Sources and Resources.** The 5-level CDC provides the career knowledge training required. The CDC is written to build from the trainee's current knowledge base, and provides more in-depth knowledge to support OJT requirements. OJT will be used to provide training and qualification on the core tasks identified in one MDS aircraft STS.

**10.7. Implementation.** The 3 level is awarded upon graduation from the applicable apprentice course. 5 and 7 Upgrade training will be completed using the core tasks and the formal CDCs. The 9-skill level is awarded upon promotion to SMSgt.

#### **Section D - RESOURCE CONSTRAINTS**

**11. Purpose.** This section of the CFETP identifies known resource constraints, which preclude optimum and desired training from being developed or conducted, including information such as cost and manpower. Narrative explanations of each resource constraint and an impact statement describing what effect each constraint has on training are included. Also included in this section are actions required, office of primary responsibility, and target completion dates. Resource constraints will be, as a minimum, reviewed and updated annually.

**12. Apprentice Level Training for 2A9X3A/B/C/D/H -** No resource constraints identified.

**13. Apprentice Level Training for 2A9X3E/F/G.**

**13.1. AN/AAR-47 (V2) Missile Warning System.**

**13.1.1. Constraints:** Trainers are not available for the Apprentice course to satisfy the requirements to reprogram and perform operational checks on the AN/AAR-47 (V2) system.

**13.1.2. Impacts:** Apprentice students will not be able to reprogram nor perform hands-on operational checks (proficiency code '2b') on the AN/AAR-47 (V2) systems. Instead, they will continue to receive training using the AN/AAR-47 (V1) until the V2 system can be obtained. Proficiency code '2b/-' will be entered in column 4A for the respective STS line item for AN/AAR-47 (V2).

**13.2. AN/AAQ-24 (V) 13 Large Aircraft Infrared Countermeasures System (LAIRCM).**

**13.2.1. Constraints:** Trainers are not available for the Apprentice course to satisfy the requirements to reprogram and perform operational checks on the AN/AAQ-24 (LAIRCM) system.

**13.2.2. Impacts:** Apprentice students will not be able to reprogram nor perform hands-on operational checks (proficiency code '2b') on the LAIRCM system. Instead, they will receive training on step-by-step procedures to reprogram and perform ops checks (proficiency code 'b'). Proficiency code '2b/b' will be entered in column 4A for the respective STS line items for the LAIRCM system.

**13.3. Resources Required:** Funds to acquire new trainers or GITAs, or modify existing ones to allow for reprogramming and performing operational checks on the AN/AAR (V2) and LAIRCM systems.

**13.4. Actions Required:** A lead command must be established to champion acquisition of training systems.

**13.5. OPR and Target Completion Date:** AETC/A3TM working with AF/A4LF. Completion date is to be determined.

**14. Journeyman Level Training.** No resource constraints identified.

**15. Craftsman Level Training.** No resource constraints identified.

***Section E – TRANSITIONAL TRAINING GUIDE-*** There are no transitional requirements. This area is reserved.

## **PART II**

### ***Section A –SPECIALTY TRAINING STANDARD***

**1. Implementation.** This STS will be used for technical training provided by Air Education and Training Command (AETC) once all training resources are funded.

**2. Purpose.** As prescribed in AFI 36-2201, and AFI 36-2232 this STS:

**2.1.** Lists in the column 1 (Task, Knowledge, and Technical Reference) the most common tasks, knowledge, and technical references (TR) necessary for airmen to perform duties in the 3-, 5-, and 7-skill level.

**2.2.** Identifies in column 2 (Core Tasks) by asterisk (\*), specialty-wide training requirements. For upgrade training only those tasks designated as core requirements by the AFCFM (by an asterisk in column 2) need to be trained and certified. MAJCOM Functional Managers, commanders, and supervisors may designate additional critical tasks for duty position qualification, as necessary. When designated, certify the duty position critical tasks using normal task certification procedures. Exemptions:

**2.2.1.** Core tasks that are not applicable to base assigned aircraft or equipment are not required for upgrade (units are not required to send personnel TDY for core task training)

**2.2.2.** For units with more than one mission design aircraft, upgrade trainees need only complete core tasks on a single mission design. MFMs, unit commanders, and/or supervisors may require trainees to complete core task training on additional mission design aircraft, if desired. If some of these core tasks involve training in another unit on base, trainees must still complete all core tasks relevant to at least one mission design aircraft. All units are bound by the requirements in this CFETP and will accommodate core task trainees from other units.

**2.2.3.** Units that use the G081 maintenance data collection system do not need to complete Core Automated Maintenance System (CAMS) or Integrated Maintenance Data System (IMDS) Computer Based Training (CBT) core tasks. Units that use CAMS/IMDS do not need to complete G081 CBT core tasks.

**2.3.** Provides certification for OJT. Column 3 is used to record completion of tasks and knowledge training requirements. Use CAMS/IMDS/G081 to document technician qualifications, if available. Task certification must show a certification or completed date.

**2.4.** Shows formal training and correspondence course requirements. Column 4 shows the proficiency to be demonstrated on the job by the graduate as result of training on the task/knowledge and the career knowledge provided by the correspondence course.

**2.5. Qualitative Requirements.** Attachment 1 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.

**2.6. Job Qualification Standard.** The STS becomes a job qualification standard (JQS) for on-the-job training when placed in AF Form 623, **On-The-Job Training Record**, and used according to AFI 36-2201. For OJT, the tasks in column 1 are trained and qualified to the go/no-go level. "Go" means the individual can perform the task without assistance and meets local requirements for accuracy, timeliness, and correct procedures. When used as a JQS, the following requirements apply:

**2.6.1. Documentation.** Document and certify completion of training IAW AFI 36-2201. Use of Part II, attachments one, two, three, and at least one of attachments four through twenty-one is required in individual training records.

**2.6.1.1. Transcribing from Old CFETP to New CFETP.** All AFJQSs and previous CFETPs are replaced by this CFETP; therefore, transcribing of all training records to this CFETP STS is mandatory. Use this CFETP STS (or automated STS) to identify and certify all past and current qualifications. Document and certify all previous and current training IAW AFI 36-2201.

**2.7. STS.** A guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron, by Senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the WAPS catalog. Individual responsibilities are in AFI 36-2502, *Airman Promotion Program*. WAPS is not applicable to the Air National Guard or Air Force Reserve.

**3. Recommendations.** Comments and recommendations are invited concerning the quality of training AETC graduates received. A 782 TRG Customer Service Information Line (CSIL) is available for supervisors to identify a graduate's training concerns on tasks/knowledge items listed in this STS. Please reference specific STS line items and address your comments to: [782CSIL@us.af.mil](mailto:782CSIL@us.af.mil) or call the CSIL at DSN 736-2574 anytime.

## ***Section B – 3-LEVEL COURSE OBJECTIVES***

**4. Introduction.** Each proficiency coded STS task or knowledge item taught at the technical school is measured through the use of an objective. An objective is a written instruction for the student so he or she knows what is expected of them to successfully complete training on each task. Each objective is comprised of a condition, behavior, and standard that states what is expected of the student for each task. The condition is the setting in which the training takes place (i.e. TOs, type of equipment, etc). The behavior is the observable portion of the objective (i.e. perform an operational check). The standard is the level of performance that is measured to ensure the STS proficiency code level is attained (i.e. "with no more than two instructor assists")

**5. Objective Measurement.** Each objective uses letter codes(s) to identify how it is measured. All objectives using the **PC** code indicate a progress check is used to measure subject or task knowledge. **W** indicates a comprehensive written test and is used to measure the subject or task knowledge at the end of a block of instruction. **PC/W** indicates a subject

or task knowledge progress check and a separate measurement of both knowledge and performance elements using a written test.

**6. Objective Standard.** The standard for written examinations is 70% to 72%. Standards for performance objectives are indicated in the objective and are also indicated on the individual progress check checklist. The checklist is used by the instructor to document each student's progress, on each task. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or part of the behavior until satisfactory performance is attained. Students must satisfactorily complete all PCs prior to taking the written test.

**7. Proficiency Level.** Review column 4A of the STS to determine the proficiency level of a particular task or knowledge item. Review the proficiency code key in Part II, Section A of this CFETP for an explanation of the proficiency codes. Most task performance is taught to the '2b' proficiency level which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step-by-step procedures for doing the task.

### ***Section C – SUPPORT MATERIAL***

**8.** There are currently no support material requirements. This area is reserved

### ***Section D – TRAINING COURSE INDEX***

**9. Purpose.** This section of the CFETP identifies training courses available for the 2A9X3X Specialty and shows how the courses are used by each MAJCOM in their career field training programs. For further information on the following courses, contact the OPR at:

365 TRS/TRR  
609 9th Ave, Rm 135  
Sheppard AFB, TX 76311-2335  
DSN 736-7908

**10. Air Force In-Resident Courses.** The following courses are required for 3-level training, and are identified per airframe. Students are required to first attend Avionics Fundamentals, located at Keesler AFB, followed by their specific avionics training course, located at Sheppard AFB. For further course information go to the ETCA website at: <https://etca.randolph.af.mil/>.

AIRFRAME	COURSE NUMBER	COURSE TITLE
E-3 (2A933A)	E3AQR2A933A022A	Avionic Fundamentals
	J3ABR2A933A022A	B/S Avionics Radar Surveillance Systems Apprentice
E-3 (2A933B)	E3AQR2A933B022A	Avionic Fundamentals
	J3ABR2A933B022A	B/S Avionics Integrated EW Systems Apprentice
E-8	E3AQR2A933C024A	Avionic Fundamentals
	J3ABR2A933C024A	B/S Avionics Radar Surveillance Systems Apprentice
RC-135	E3AQR2A933D018A	Avionic Fundamentals
	J3ABR2A933D018A	B/S Avionics Integrated EW Systems Apprentice
B-1	E3AQR2A933E001A	Avionic Fundamentals
	J3ABR2A933E001A	B/S Avionics Integrated EW Systems Apprentice
B-2	E3AQR2A933F002A	Avionic Fundamentals
	J3ABR2A933F002A	B/S Avionics Integrated EW Systems Apprentice
B-52	E3AQR2A933G003A	Avionic Fundamentals
	J3ABR2A933G003A	B/S Avionics Integrated EW Systems Apprentice
EC-130	E3AQR2A933H017A	Avionic Fundamentals
	J3ABR2A933H017A	B/S Avionics Integrated EW Systems Apprentice

**11. AFIADL.** <http://www.au.af.mil/au/afiadl/>.

COURSE NO.	COURSE TITLE	USER
CDC 2A953X	Integrated Electronic Warfare & Radar Surveillance Systems Journeyman	AF
CDC 2AX7X	Aerospace Maintenance Systems Craftsman	AF

**12. Exportable Courses. None.**

For further information on exportable courses, contact the OPRs at:

367 TRSS  
 6058 Aspen Ave  
 Hill AFB, UT 84056-5805  
 DSN 777-7830/8741

Interactive Courseware (ICW) courses are available from or are under development by, 367 TRS/TRSS at Hill AFB, Utah and 982 MXS/TSU at Sheppard AFB, Texas.

For further information contact the OPRs at:

367 TRSS  
6058 Aspen Ave  
Hill AFB, UT 84056-5805  
DSN 777-7830/8741

982 MXS/LGMS  
Instructional Technology Unit  
912 I Ave, Ste 4  
Sheppard AFB, TX 76311-2334  
DSN 736-3834

**13. Field Training Detachment (FTD) Courses.** For further information on FTD courses, you can go to the ETCA website at <https://etca.randolph.af.mil/> or contact the OPRs at:

373 TRS  
912 I Ave, Suite 4  
Sheppard AFB, TX 76311-2362  
DSN 736-4745

**Section E - MAJCOM UNIQUE REQUIREMENTS.** There are no mandatory MAJCOM unique requirements for 2A9X3X.

**14. (USE IF APPLICABLE)** For MAJCOM unique requirements, refer to the MAJCOM mandatory course lists:

HQ ACC/A4Q DET 3  
6058 Aspen  
Hill AFB, UT 84056-5805  
DSN 777-5108  
CAF MCL:  
<https://afkm.wpafb.af.mil/community/views/home.aspx?Filter=OO-TE-AC-42>

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

JUDITH A. FEDDER, Lt General, USAF  
DCS/Logistics, Installations & Mission Support

13 Attachments:

1. Proficiency Code Key (Mandatory)
2. General 2A9X3X Training Requirements (Mandatory for all excluding B-1, B-2, B-52)
3. General 2A9X3X Training Requirements (Mandatory for B-1, B-2, B-52)
4. E-3 Radar Training Requirements (Mandatory for E-3 Radar personnel)
5. E-3 Computer/EW Training Requirements (Mandatory for E-3 Computer/EW personnel)
6. E-8 Training Requirements (Mandatory for E-8 personnel)
7. RC-135 Training Requirements (Mandatory for RC-135 personnel)
8. B-1 Training Requirements (Mandatory for B-1 personnel)
9. B-2 Training Requirements (Mandatory for B-2 personnel)
10. B-52 Training Requirements (Mandatory for B-52 personnel)
11. EC-130 Training Requirements (Mandatory for EC-130 personnel)
12. Avionics Fundamental Training Requirements (Mandatory)
13. 2AX7X CDC Training Requirements (Mandatory)

**Note:** Use of at least one of attachments four through eleven is required.

## Attachment 1

<i>This Block Is For Identification Purposes Only</i>		
<b>Name Of Trainee:</b>		
<b>Printed Name</b> ( <i>Last, First, Middle Initial</i> )	<b>Initials</b> (Written)	<b>SSAN</b> (last 4 only)
Printed Name Of Training/Certifying Official And Written Initials		
<i>N/I</i>	<i>N/I</i>	

### QUALITATIVE REQUIREMENTS

Proficiency Code Key		
	Scale Value	<b>Definition: The individual</b>
Task Performance Levels	1	<b>IS EXTREMELY LIMITED</b> (Can do simple parts of the task. Needs to be told or shown how to do most of the task.)
	2	<b>IS PARTIALLY PROFICIENT</b> (Can do most parts of the task. Needs only help on hardest parts.)
	3	<b>IS COMPETENT</b> (Can do all parts of the task. Needs only a spot check of completed work.)
	4	<b>IS HIGHLY PROFICIENT</b> (Can do the complete task quickly and accurately. Can tell or show others how to do the task.)
*Task Knowledge Levels	a	<b>KNOWS NOMENCLATURE</b> (Can name parts, tools, and simple facts about the task. )
	b	<b>KNOWS PROCEDURES</b> (Can determine step by step procedures for doing the task. )
	c	<b>KNOWS OPERATING PRINCIPLES</b> (Can identify why and when the task must be done and why each step is needed.)
	d	<b>KNOWS ADVANCED THEORY</b> (Can predict, isolate, and resolve problems about the task.)
**Subject Knowledge Levels	A	<b>KNOWS FACTS</b> (Can identify basic facts and terms about the subject.)
	B	<b>KNOWS PRINCIPLES</b> (Can identify relationship of basic facts and state general principles about the subject.)
	C	<b>KNOWS ANALYSIS</b> (Can analyze facts and principles and draw conclusions about the subject.)
	D	<b>KNOWS EVALUATION</b> (Can evaluate conditions and make proper decisions about the subject.)

**Explanations**

\* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Example: b and 1b)

\*\*A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.

- This mark is used alone instead of a scale value to show that no proficiency training is provided in the course or CDC.

/ This mark is used in course columns to show that training is required but not given/reduced due to limitations in resources. (3c/b, 2/b/b, 3c/-, etc.)

**X** This mark is used alone in course columns to show that training is required but not given due to limitations in resources.

**NOTE:** All tasks and knowledge items shown with a proficiency or knowledge code are trained during wartime.

**E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC

**Attachment 2 – E-3, E-8, RC-135 and EC-130 General Training Requirements**

This general training requirements section is used to show necessary changes to the individual CFETP STS line items, for all the 2A9X3 shreds, in order to have the same level requirements across the shreds.

NOTE 1: The apprentice course, J3ABR2A933XXXXX, Bomber/Special Avionics Integrated Electronic Warfare Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

NOTE 2: All course requirements are trained in the 3-level resident course during wartime.

NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.

NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).

NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an "\*" does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.

NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908

2 CFETP 2A9X3A/B/C/D/H – ELECTRONIC WARFARE AND RADAR SURVEILLANCE SYSTEMS										
2.1 CAREER LADDER PROGRESSION (COMMON)										
2.1.1 Progression in Career Ladder 2A9X3C TR: AFI 36-2108 / AFVA 39-1								-	-	-
2.1.2 Duties of 3-, 5-, and 7-Level Personnel								-	A	-
2.1.3 Concepts/Philosophy of Electronic Warfare								A	-	-
2.2 SECURITY (COMMON)										
2.2.1 Information Security TR: AFI-31-401 / AFI 31-501 / AFPD 31- 4 / AFPD 31-5										
2.2.1.1 Mark Classified Information								-	-	-
2.2.1.2 Prevention of Security Violations								-	-	-
2.2.1.3 Access to Classified Information								-	-	-
2.2.1.4 Use Security Classification Guide								a	B	-
2.2.2 Physical Security TR: DODR 5200.1R										
2.2.2.1 Control of Restricted Areas								-	-	-
2.2.2.2 Security Alert Reporting								-	-	-
2.2.2.3 Cabinet, Safe and Room Security Forms								A	-	-
2.2.2.4 Proper Handling of Classified Materials / Controlled Cryptographic Items (CCI)								A	B	-
2.2.3 Communications Security (COMSEC) TR: AFI 33-211										
2.2.3.1 COMSEC Education Program								-	-	-
2.2.3.2 Specific 2A2X3 Vulnerabilities								A	-	-
2.2.4 Operations Security (OPSEC) TR: AFI 10-1101, AFPD 10-11										
2.2.4.1 Goals of OPSEC Program								-	-	-
2.2.4.2 Specific 2A2X3 Vulnerabilities								-	-	-
2.2.4.3 Use CILs (Critical Information Lists)								-	-	-

E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
2.2.5 Computer Security (COMPUSEC) TR: AFI 33-202									-	-	-
2.3 AF OCCUPATIONAL SAFETY and HEALTH (AFOSH) PROGRAM (COMMON) Safety Practices											
2.3.1 RF Energy									A	B	-
2.3.2 Noise									A	B	-
2.3.3 Compressed Gases									A	B	-
2.3.4 Electrical Power									A	B	-
2.3.5 Hydraulic Power									A	B	-
2.3.6 Hazardous Liquids									A	B	-
2.3.7 Radioactive Parts and Materials									-	-	-
2.3.8 Aircraft									A	B	-
2.3.9 Aerospace Ground Equipment (AGE)									-	-	-
2.3.10 Electrical Equipment									A	B	-
2.3.11 STV Beryllium Mirrors									-	-	-
2.3.12 Lasers									A	-	-
2.3.13 Composites									A	-	-
2.3.14 FOD Prevention TR: AFI 21-101									-	-	-
2.3.15 Fall Protection/ Restraints									A	-	-
2.3.16 AF Nuclear Surety Program TR: AFPD 91-1, AFI 91-104									-	-	-
2.3.17 High Voltage									-	-	-
2.4 HAZARDOUS MATERIALS and WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS (COMMON) TR: AFI-23-504/ EPA State Regulations											
2.4.1 Types of Hazardous Material/ Fluids									A	-	-
2.4.2 Handling Procedures									A	-	-
2.4.3 Storage and Labeling									A	-	-
2.4.4 Proper Disposal									A	-	-
2.4.5 Material Safety Data Sheet (MSDS)									B	-	-
2.4.6 Report Hazardous Material Spills									-	-	-
2.5 MAINTENANCE MANAGEMENT (COMMON) TR: AFI-21-101/ MAJCOM Directives											
2.5.1 Purpose and Function of the Maintenance Organization									-	B	-
2.5.2 Maintenance Accountability									-	-	-
2.5.3 Maintenance Resource Management									A	-	-
2.5.4 Maintenance Management											
2.5.4.1 Maintenance Group Commander Responsibilities									-	-	-
2.5.4.2 Logistics Management									-	-	-

E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
2.5.4.3 Resource Management									-	-	-
2.5.4.4 Technical Order Management									-	-	-
2.5.4.5 Product Improvement Working Group / Test Planning Working Group / System Training Plan / Product Improvement Review									-	-	-
2.5.4.6 Financial Plan									-	-	-
2.5.4.7 Aircraft / Support Equipment Status Monitoring									-	-	-
2.5.4.8 Maintenance QPM Relationships									-	-	-
2.5.4.9 FOD Program Manager									-	-	-
2.5.4.10 Mobility									-	-	-
2.5.4.11 Aircraft Inspection Systems									-	A	-
2.5.4.12 Maintenance Incident Investigation and Prevention									-	-	-
2.5.4.13 Warranty Programs									-	-	-
2.5.4.14 Modification Proposal									-	-	-
2.5.4.15 SMR Change Request									-	-	-
2.5.4.16 Status Reports									-	-	-
2.5.4.17 Configuration Management									-	-	-
2.5.4.18 Status of Resources and Training (SORTS)									-	-	-
2.5.4.19 Coordinate Precision Measurement Equipment Laboratory Support									-	-	-
2.5.4.20 Minimum Essential Sub-System Listing (MESL)									-	-	-
2.5.5 Maintenance Information System (MIS) TR: AFI 21-101											
2.5.5.1 Purpose of the MIS									A	-	-
2.5.5.2 Maintenance Data Collection Forms									B	-	-
2.6 GENERAL COMPUTER PRINCIPLES (COMMON)											
2.6.1 Central Processing Unit									A	B	-
2.6.2 Memory Storage Devices									A	B	-
2.6.3 Power Supply									A	B	-
2.6.4 Controls and Displays									A	B	-
2.6.5 Redundant Array of Independent Disks 0-5									B	B	-
2.7 GLOBAL POSITIONING SYSTEM (GPS) (COMMON)											
2.7.1 Purpose and Characteristics									A	B	-
2.7.2 Theory of Operation									A	B	-
2.7.3 System Tie-In/ Integration									A	B	-
2.7.4 Operate Applicable MIS (IMDS, GO81, ECSS)											
2.7.4.1 Create Discrepancy									2b	-	-
2.7.4.2 Schedule Discrepancy									2b	-	-

**E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
2.7.4.3	Defer Discrepancy								2b	-	-
2.7.4.4	Transfer Discrepancy								2b	-	-
2.7.4.5	Sign-Off Discrepancy	*							2b	-	-
2.7.4.6	Supply Transactions								2b	-	-
2.7.4.7	Order Aircraft Parts								-	-	-
2.7.4.8	Maintenance / Supervision Transactions								-	-	-
2.7.4.9	Complete IMDS Course J6ANU00066-043 CAMS for Flightline and Backshop								-	-	-
2.7.5	Deficiency Reporting System										
2.7.5.1	Purpose								-	B	-
2.7.5.2	Product Quality Deficiency Report								-	A	-
2.7.6	Use Aircraft / Equipment Maintenance Forms										
2.7.6.1	AFTO Form 781A	*							2b	A	-
2.7.6.2	AFTO Form 781B								-	-	-
2.7.6.3	AFTO Form 781C								2b	A	-
2.7.6.4	AFTO Form 781H								2b	A	-
2.7.6.5	AFTO Form 781K	*							2b	A	-
2.7.6.6	AFTO Form 244 / 245	*							2b	A	-
2.7.6.7	Use AF Form 1492	*							2b	A	-
2.7.6.8	Use AFTO 349								-	-	-
2.7.6.9	Historical Records								-	-	-
2.8	SUPERVISION (COMMON) TR: AFI 36-2108/ AFI 36-2201/ AFI 21-101/ AFI 21-103										
2.8.1	Orient New Personnel								-	-	-
2.8.2	Assign Personnel to Work Assignments								-	-	-
2.8.3	Plan Work Assignments and Priorities								-	-	-
2.8.4	Schedule Work Assignments and Priorities								-	-	-
2.8.5	Coordinate Work Assignments								-	-	-
2.8.6	Establish										
2.8.6.1	Work Methods								-	-	-
2.8.6.2	Controls								-	-	-
2.8.6.3	Performance Standards								-	-	-
2.8.7	Evaluate Work Performance of Subordinate Personnel								-	-	-
2.8.8	Help Resolve Technical Problems for Subordinate								-	-	-
2.8.9	Initiate Actions to Correct Substandard Performance TR: AFI 36-2503 / AFI 36-2907 / AFI 36-3202 / AFI 36-3208								-	-	-
2.8.10	Counsel Personnel and Help Resolve Individual Problems TR: AFP 36-2618								-	-	-
2.8.11	Supervise										

**E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: AFI 21-101										
2.8.11.1 Maintenance Actions TR: AFI 21-103								-	-	-
2.8.11.2 Inspection Actions								-	-	-
2.8.12 Use/ Interpret										
2.8.12.1 Maintenance Reports								-	-	-
2.8.12.2 Inspection Reports								-	-	-
2.8.12.3 Review Maintenance Documentation								-	-	-
2.8.13 Prepare										
2.8.13.1 Maintenance Inspection Reports and Charts								-	-	-
2.8.13.2 Organization and Functional Charts								-	-	-
2.8.14 Justify TR: AFI 21-101										
2.8.14.1 Personnel Manning Requirements								-	-	-
2.8.14.2 Equipment Authorizations								-	-	-
2.8.15 Recommend Policy Changes on Use of TR: AFI 21-101										
2.8.15.1 Personnel								-	-	-
2.8.15.2 Equipment								-	-	-
2.8.16 Statement of Charges TR: AFM 23-110 V-2								-	-	-
2.8.17 Perform Reports Of Survey TR: AFM 23-110 V-2								-	-	-
2.8.18 Aircraft Scheduling TR: AFI 21-101, AFI 21-103										
2.8.18.1 Utilize Flow Charts								-	-	-
2.8.18.2 Flying/ Maintenance Planning								-	-	-
2.8.18.3 Maintenance Mobility Planning								-	-	-
2.9 TRAINING (COMMON) TR: AFI 36-2201										
2.9.1 Evaluate Personnel for Need of Training								-	-	-
2.9.2 Plan and Supervise OJT/ Enlisted Training										
2.9.2.1 Prepare JQS (AF Form 797)								-	-	-
2.9.2.2 Conduct Training								-	-	-
2.9.2.3 Counsel Trainees on their Progress								-	-	-
2.9.3 Monitor Effectiveness Of Training										
2.9.3.1 Career Knowledge Upgrade								-	-	-
2.9.3.2 Job Proficiency Upgrade								-	-	-
2.9.3.3 Qualification Training								-	-	-
2.9.3.4 Maintain Training Records								-	-	-
2.9.3.5 Develop Training Programs										
2.9.3.6 Evaluate Effectiveness of Training Programs								-	-	-
2.9.4 OJT Trainer Requirements										
2.9.4.1 Prepare Teaching Outlines of Tasks								-	-	-

E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
Breakdowns										
2.9.4.2 Provide Trainees Theory and Train on Actual Equipment								-	-	-
2.9.4.3 Provide Feedback on Training Provided								-	-	-
2.9.5 OJT Task Certifier Requirements										
2.9.5.1 Develop Methods of Evaluation to Determine Trainee Knowledge / Qualification and Training Effectiveness								-	-	-
2.9.5.2 Use Appropriate Method of Evaluation and Effectively Determine Trainees Ability								-	-	-
2.9.5.3 Provide Supervisor and Trainee Feedback on Results of Training Provided and Trainees Strengths and Weaknesses								-	-	-
2.9.6 Specialty Training Status (STS)								-	-	-
2.9.7 Occupational Analysis Report (OAR)								-	-	-
2.9.8 Utilization and Training Workshop (U and TW)								-	-	-
2.9.9 Career Field Education and Training Program (CFETP)								-	-	-
2.10 TECHNICAL PUBLICATIONS (COMMON) TR: Applicable 00-series technical orders, 80-00-1										
2.10.1 Scope and Application of Technical Order System								A	B	-
2.10.2 Use Technical Order Indexes								-	-	-
2.10.3 Use Technical Orders								2b	-	-
2.10.4 Scope and Application of Technical Order Improvement/ Deficiency Report								A	A	-
2.10.5 Initiate Technical Order Improvement / Deficiency Report								-	-	-
2.10.6 Scope and Application of Computer Program Identification Number (CPIN) System								A	A	-
2.10.7 Use CPIN Compendium								-	-	-
2.10.8 Time Compliance Technical Orders								-	A	-
2.10.9 Maintain Technical Order Files								-	-	-
2.10.10 Electronic Technical Orders								A	-	-
2.11 SUPPLY DISCIPLINE (COMMON) TR: AFMAN 23-110										
2.11.1 Property Accountability and Responsibility								A	B	-
2.11.2 Equipment Authorization and Management								-	-	-
2.11.3 Special Requisitions								-	-	-

E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
2.11.4	Verify Back Order								-	-	-
2.11.5	Use Equipment Condition Tags							2b	-	-	
2.11.6	Use Microfiche/ Computer Based Programs							-	-	-	
2.11.7	Use Issue / Turn-In Requests							-	-	-	
2.11.8	Maintenance Supply Concept							-	-	-	
2.11.9	Supply Documents Management							-	-	-	
2.11.10	Equipment Account Management							-	-	-	
2.11.11	Priority System							-	-	-	
2.11.12	Repair Cycle							-	-	-	
2.11.13	Classified Asset Handling							A	A	-	
2.11.14	Land Mobile Radios / Pagers / Cell Phones							-	-	-	
2.11.15	Depot Level Repairables							-	-	-	
2.11.16	Use Supply Products										
2.11.16.1	D04							-	-	-	
2.11.16.2	D18							-	-	-	
2.11.16.3	M30							-	-	-	
2.11.16.4	D23							-	-	-	
2.12	ELECTRONIC WARFARE PRINCIPLES (COMMON) TR: AFDD 2-5.1										
2.12.1	Electronic Warfare Combat Principles							B	B	-	
2.12.2	Electromagnetic Radiation (Directed Energy)							B	B	-	
2.12.3	EW Categories							B	B	-	
2.12.4	Air Defense Systems							B	B	-	
2.12.5	Infrared Principles							B	B	-	
2.12.6	Radar Warning							B	B	-	
2.13	SURVEILLANCE RADAR PRINCIPLES (COMMON)										
2.13.1	Theory of Operation										
2.13.1.1	Antenna Systems							B	B	-	
2.13.1.2	Synthetic Aperture Radar							B	B	-	
2.13.2	Frequency Generation										
2.13.2.1	Operating Frequencies							B	B	-	
2.13.2.2	Local Oscillator Frequencies							B	B	-	
2.13.2.3	Intermediate Frequencies							B	B	-	
2.13.3	Amplification/ Transmitters										
2.13.3.1	Pulsing							B	B	-	
2.13.3.2	Continuous Wave (CW)							B	B	-	
2.13.3.3	Pulse Repetition Time/ Pulse Repetition Frequency							B	B	-	
2.13.4	Receiver Processing										
2.13.4.1	IF Mixing							B	B	-	

E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
2.13.4.2 Analog to Digital Conversions									B	B	-
2.13.4.3 Clutter Processing									B	B	-
2.13.4.4 Pulse Compression/ Expansion									B	B	-
2.13.4.5 Doppler Processing									B	B	-
2.13.4.6 Timing and Synchronization									B	B	-
2.14 FUNDAMENTALS OF AVIONIC SYSTEMS MAINTENANCE/ ON EQUIPMENT (COMMON) TR: Applicable aircraft -1 and -2 series technical orders/ TO 00-25-234/ TO 1-1A-14/ TO 33-1-32											
2.14.1 Nuclear Hardness Maintenance and Inspections TR: Applicable System JG-00-1/ 1-1A-14									A	-	-
2.14.2 Use Aircraft Hardware TR: AFI 91-408/ Applicable Aircraft TOs									-	-	-
2.14.3 Consolidated Tool Kits TR: AFI 21-101											
2.14.3.1 Inventory	*								2b	B	-
2.14.3.2 Tool Accountability									A	B	-
2.14.3.3 Lost Tool Report									-	B	-
2.14.4 Use Common Tools TR: AFI 91-408/ TOs 00-25-24, 32-1-1, 32-1-2, 32-1-101, 32-1-2011-1-691	*								2b	-	-
2.14.5 Use Torque Indicating Devices	*								2b	B	-
2.14.6 Use Special Purpose Tools									-	-	-
2.14.7 Protect Electrostatic Devices	*								2b	-	-
2.14.8 Identify and Perform Corrosion Control									a	-	-
2.14.9 Safety Wire	*								2b	-	-
2.14.10 Use Safelying Devices									-	-	-
2.14.11 Shear Wire									b	-	-
2.14.12 Use Panel Sealants / Gaskets									-	A	-
2.15 GENERAL ORGANIZATIONAL MAINTENANCE (COMMON) TR: Applicable Aircraft -1/ -2 Series TOs											
2.15.1 Ensure Aircraft Safe for Maintenance									2b	-	-
2.15.2 Aircraft Familiarization											
2.15.2.1 Major Structural Areas									A	A	-
2.15.2.2 Major Systems									A	A	-
2.15.2.3 Danger Areas									A	B	-
2.15.2.4 Egress Systems									A	-	-
2.15.3 Apply External Air Conditioning									-	-	-
2.15.4 Apply External Power									2b	-	-
2.15.5 Central Aircraft Support System (CASS)									-	-	-

**E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.15.6 Perform Selected Classified Data Erase								-	-	-
2.15.7 Apply Hydraulic Power								-	-	-
2.15.8 Perform Proximity Switch Control Covering/ Uncovering								-	-	-
2.15.9 Practice Safe Entry Procedures on Aircraft with Open Fuel Cells								-	-	-
2.15.10 Purpose of Radar Absorption Material (RAM)								A	-	-
2.15.11 Operate Motorized Maintenance Stand								-	-	-
2.15.12 Operate Crane								-	-	-
2.15.13 Launch/ Recover Aircraft								-	-	-
2.15.14 Tow Aircraft										
2.15.14.1 Wing/ Tail Walker								-	-	-
2.15.14.2 Brake Operator								-	-	-
2.15.14.3 Tow Supervisor								-	-	-
2.15.14.4 Tow Vehicle Operator								-	-	-
2.15.15 Perform Aircraft Inspection										
2.15.15.1 Phase								-	A	-
2.15.15.2 Isochronal								-	A	-
2.15.15.3 Special (excluding AN/USM-464 and AN/ALM-288 checks)								-	A	-
2.15.15.4 Perform Aircraft Wash								-	-	-
2.15.15.5 Perform Aircraft De-Icing								-	-	-
2.15.15.6 Brief/ Debrief Aircrews								-	-	-
2.15.16 Use Powered AGE										
2.15.16.1 Bleed Air Cart								-	-	-
2.15.16.2 Heater								-	-	-
2.15.16.3 Air Conditioner								-	-	-
2.15.16.4 Light Cart								-	-	-
2.15.16.5 Air Compressor (MC-1A / MC-2A)								-	-	-
2.15.16.6 Ground Power Unit								-	-	-
2.15.16.7 Powered Man-Lifts								-	-	-
2.15.16.8 Motorized Maintenance Stand								-	-	-
2.15.16.9 Nitrogen Cart								-	-	-
2.15.17 Use Non-Powered AGE										
2.15.17.1 Maintenance Platform (B-1)								2b	-	-
2.15.17.2 Maintenance Platform (B-2)								-	-	-
2.15.17.3 Maintenance Platform (B-4 / B-5)								2b	-	-
2.15.17.4 Maintenance Platform (B-6)								-	-	-
2.15.17.5 Maintenance Platform (B-7)								-	-	-
2.15.17.6 Maintenance Platform (C-1)								-	-	-
2.15.18 Data Bus Principles / Maintenance Practices										
2.15.18.1 Local Area Networks								A	B	-
2.15.18.2 Network Management								B	A	-

E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
2.15.18.3	Build CAT 5 Cable								2b/b	-	-
2.15.18.4	Test CAT 5 Cable								2b/b	-	-
2.15.18.5	Network Configuration								2b/b	-	-
2.15.18.6	MIL-STD-1553A								A	A	-
2.15.18.7	MIL-STD-1553B								A	A	-
2.15.18.8	RS-232								-	-	-
2.15.18.9	RS-422								-	-	-
2.15.18.10	MIL-STD-1760								-	-	-
2.15.18.11	Fiber Optics								-	B	-
2.15.18.12	Troubleshoot Data Bus								-	-	-
2.16	USE TEST EQUIPMENT (COMMON)										
2.16.1	Radar Simulator								2b	A	-
2.16.2	Serial Bus Analyzer								-	-	-
2.16.3	Transmission Line Test Set								1b	A	-
2.16.4	Fiber Optic Test Set								2b/b	A	-
2.16.5	Pulse Generator								2b	-	-
2.16.6	Network Analyzer								2b	A	-
2.16.7	Power Meter								2b	A	-
2.16.8	Spectrum Analyzer								2b	A	-
2.16.9	Time Domain Reflect Meter (TDR)								1b	A	-
2.16.10	ALM-288								2b	A	-
2.16.11	Frequency Counter								2b	A	-
2.16.12	Oscilloscope								2b	A	-
2.16.13	Multimeter								2b	A	-
2.16.14	Ethernet Cable Tester								-	-	-
2.16.15	RF Signal Generator								2b	-	-
2.16.16	Milliohm Meter								-	-	-
2.16.17	Reprogramming Support Equipment										
2.16.17.1	Data Access Devices								-	-	-
2.16.17.2	Data Transfer Devices								2b	A	-
2.17	MAINTAIN (COMMON)								-	-	-
2.17.1	PLM-4 Radar Simulator or Equivalent								-	-	-
2.17.2	PYM-1 CAPRE								-	-	-
2.17.3	MWS Sensor Simulator								-	-	-
2.17.4	MWS Test Set								-	-	-
2.17.5	AN/ALM-288 Countermeasure Dispenser Tester (CDT)								-	-	-
2.17.6	AN/ALM 178 TR: TM 11-6625-2739-14								-	-	-
2.17.7	AN/USM-464A								-	-	-
2.17.8	AN/PLM-6B Multi-Purpose Electro-Optical End-to-End Tester (MEON)								-	A	-
2.18	AIRCRAFT WIRING/ TRANSMISSION LINES (COMMON) TR: TO 1-1A-14/ TO 12P3-1-10/ TO 31-										

**E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
10-14										
2.18.1 Kapton Wire								-	-	-
2.18.2 Multiconductor								-	B	-
2.18.3 Coaxial/ Triaxial/ Twinaxial								-	B	-
2.18.4 Nuclear Hardened Cable								B	B	-
2.18.5 Waveguides								-	B	
2.18.6 Single Conductor								-	B	-
2.18.7 Rigid Coaxial								-	B	-
2.18.8 Fiber Optics								-	B	-
2.19 PERFORM WIRE MAINTENANCE (COMMON) TR: TO 1-1a-14/ TO 31-10-14										
2.19.1 Stripping								2b	B	-
2.19.2 Video Splicing								2b/b	B	-
2.19.3 Environmental Splicing								-	B	-
2.19.4 Bundling								2b	B	-
2.19.5 Strain Relief								2b	B	-
2.19.6 Continuity Checks								2b	-	-
2.19.7 Wire Repair	*							-	B	-
2.19.8 Splice Fiber Optics								-	-	-
2.19.9 Clean Fiber Optics								-	-	-
2.19.10 Solder RF Connector								2b/b	-	-
2.19.11 Assemble / Disassemble Solderless Connectors										
2.19.11.1 Crimp Connectors	*							2b/b	-	-
2.19.11.2 Coaxial Connectors								2b/b	-	-
2.20 REMOVE AND INSTALL NOTE: Qualification on line items 2.20.1 through 2.20.14 qualifies the individual on all similar system components throughout this training record unless identified separately in the specific system or in writing by the supervisor.										
2.20.1 Shock Mounted	*							-	-	-
2.20.2 Tray Mounted	*							-	-	-
2.20.3 Rack Mounted	*							-	-	-
2.20.4 Console Mounted	*							2b	-	-
2.20.5 Aircraft Surface Mounted	*							2b	-	-
2.20.6 Clamp Mounted Components								-	-	-
2.20.7 Bezel Mounted Components								-	-	-
2.20.8 Latch Mounted Components	*							-	-	-
2.20.9 Bulkhead Mounted								-	-	-
2.20.10 Equipment Mounted	*							-	-	-
2.20.11 Minor Parts and Hardware (i.e. relay, switches, bulbs, circuit breakers)	*							-	-	-
2.20.12 Capacitors / Resistors / Diodes								-	-	-
2.20.13 Terminal / Modular Blocks								-	-	-

**E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.20.14 Chassis Mounted								-	-	-
<b>2.21 BIT THEORY OF OPERATION</b>										
2.21.1 Manual BIT								A	-	-
2.21.2 Automatic BIT								A	-	-
<b>2.22 PANORAMIC RECIEVER</b>										
2.22.1 Purpose and Characteristics								-	-	-
2.22.2 Theory of Operation								B	B	-
2.22.3 System Tie-In/Integration								-	-	-
2.22.2 Perform Operational Check								2b	-	-
2.22.3 Troubleshoot								2b	-	-
<b>2.23 RF JAMMING TRANSMITTER SET</b>										
2.23.1 Purpose and Characteristics								-	-	-
2.23.2 Theory of Operation								-	-	-
2.23.3 System Tie-In/Integration								-	-	-
2.23.4 Perform Operational Check								-	-	-
2.23.5 Reprogram								-	-	-
2.23.6 Troubleshoot								-	-	-
<b>2.24 AN/ALE-47 CMDS</b>										
2.24.1 Purpose and Characteristics								-	-	-
2.24.2 Theory of Operation								-	-	-
2.24.3 System Tie-In/Integration								-	-	-
2.24.4 Perform Operational Check								-	-	-
2.24.5 Reprogram AN/ALE-47 CMDS								-	-	-
2.24.6 Troubleshoot								-	-	-
<b>2.25 AN/AAR-47 (V1) MISSILE WARNING SYSTEM</b>										
2.25.1 Purpose and Characteristics								-	-	-
2.25.2 Theory of Operation								-	-	-
2.25.3 System Tie-In/Integration								-	-	-
2.25.4 Perform Operational Check								-	-	-
2.25.5 Reprogram								-	-	-
2.25.6 Troubleshoot								-	-	-
<b>2.26 AN/AAR-47 (V2) MISSILE WARNING SYSTEM</b>										
2.26.1 Purpose and Characteristics								-	-	-
2.26.2 Theory of Operation								-	-	-
2.26.3 System Tie-In/Integration								-	-	-
2.26.4 Perform Operational Check								-	-	-
2.26.5 Reprogram								-	-	-
2.26.6 Troubleshoot								-	-	-
<b>2.27 RADAR WARNING RECEIVER</b>										
2.27.1 Purpose and Characteristics								-	-	-
2.27.2 Theory of Operation								-	-	-
2.27.3 System Tie-In/Integration								-	-	-
2.27.4 Perform Operational Check								-	-	-

E-3, E-8, RC-135 and EC-130 GENERAL TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.27.5 Reprogram								-	-	-
2.28 AN/AAQ-24 (V) 13 LARGE AIRCRAFT INFRARED COUNTERMEASURES SYSTEM (LAIRCM)										
2.28.1 Purpose and Characteristics								-	-	-
2.28.2 Theory of Operation								-	-	-
2.28.3 System Tie-In/Integration								-	-	-
2.28.4 Perform Operational Check								-	-	-
2.28.5 Reprogram								-	-	-
2.29 DATA LINK										
2.29.1 Purpose and Characteristics								-	-	-
2.29.2 Theory of Operation								A	A	-
2.29.3 System Tie-In/Integration								-	-	-
2.29.4 Perform Operational Check								-	-	-

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT				4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(2) CDC

Attachment 3 – B-1, B-2, B-52 General Training Requirements

This general training requirements section is used to show necessary changes to the individual CFETP STS line items, for 2A9X3E/F/G shreds, in order to have the same level requirements across the shreds.

NOTE 1: The apprentice course, J3ABR2A933XXXXX, Bomber/Special Avionics Integrated Electronic Warfare Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

NOTE 2: All course requirements are trained in the 3-level resident course during wartime.

NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.

NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).

NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an “\*” does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.

NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908

3 CFETP 2A9X3E/F/G – ELECTRONIC WARFARE SYSTEMS										
3.1 CAREER LADDER PROGRESSION (COMMON)										
3.1.1 Progression in Career Ladder 2A9X3 TR: AFI 36-2108 / AFVA 39-1								-	-	-
3.1.2 Duties of 3-, 5-, and 7-Level Personnel								-	A	-
3.1.3 Concepts/Philosophy of Electronic Warfare								A	-	-
3.2 SECURITY (COMMON)										
3.2.1 Information Security TR: AFI-31-401 / AFI 31-501 / AFPD 31- 4 / AFPD 31-5										
3.2.1.1 Mark Classified Information								-	-	-
3.2.1.2 Prevention of Security Violations								-	-	-
3.2.1.3 Access to Classified Information								-	-	-
3.2.1.4 Use Security Classification Guide								a	B	-
3.2.2 Physical Security TR: DODR 5200.1R										
3.2.2.1 Control of Restricted Areas								-	-	-
3.2.2.2 Security Alert Reporting								-	-	-
3.2.2.3 Cabinet, Safe and Room Security Forms								A	-	-
3.2.2.4 Proper Handling of Classified Materials / Controlled Cryptographic Items (CCI)								A	B	-
3.2.3 Communications Security (COMSEC) TR: AFI 33-211										
3.2.3.1 COMSEC Education Program								-	-	-
3.2.3.2 Specific 2A2X3 Vulnerabilities								A	-	-
3.2.4 Operations Security (OPSEC) TR: AFI 10-1101, AFPD 10-11										
3.2.4.1 Goals of OPSEC Program								-	-	-
3.2.4.2 Specific 2A2X3 Vulnerabilities								-	-	-
3.2.4.3 Use CILs (Critical Information Lists)								-	-	-
3.2.5 Computer Security (COMPUSEC) TR: AFI 33-202								-	-	-

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.3 AF OCCUPATIONAL SAFETY and HEALTH (AFOSH) PROGRAM (COMMON) Safety Practices										
3.3.1 RF Energy								A	B	-
3.3.2 Noise								A	B	-
3.3.3 Compressed Gases								A	B	-
3.3.4 Electrical Power								A	B	-
3.3.5 Hydraulic Power								A	B	-
3.3.6 Hazardous Liquids								A	B	-
3.3.7 Radioactive Parts and Materials								-	-	-
3.3.8 Aircraft								A	B	-
3.3.9 Aerospace Ground Equipment (AGE)								-	-	-
3.3.10 Electrical Equipment								A	B	-
3.3.11 STV Beryllium Mirrors								-	-	-
3.3.12 Lasers								A	-	-
3.3.13 Composites								A	-	-
3.3.14 FOD Prevention TR: AFI 21-101								-	-	-
3.3.15 Fall Protection/ Restraints								A	-	-
3.3.16 AF Nuclear Surety Program TR: AFPD 91-1, AFI 91-104								-	-	-
3.3.17 High Voltage								-	-	-
3.4 HAZARDOUS MATERIALS and WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS (COMMON) TR: AFI-23-504/ EPA State Regulations										
3.4.1 Types of Hazardous Material/ Fluids								A	-	-
3.4.2 Handling Procedures								A	-	-
3.4.3 Storage and Labeling								A	-	-
3.4.4 Proper Disposal								A	-	-
3.4.5 Material Safety Data Sheet (MSDS)								B	-	-
3.4.6 Report Hazardous Material Spills								-	-	-
3.5 MAINTENANCE MANAGEMENT (COMMON) TR: AFI-21-101/ MAJCOM Directives										
3.5.1 Purpose and Function of the Maintenance Organization								-	B	-
3.5.2 Maintenance Accountability								-	-	-
3.5.3 Maintenance Resource Management								A	-	-
3.5.4 Maintenance Management										
3.5.4.1 Maintenance Group Commander Responsibilities								-	-	-
3.5.4.2 Logistics Management								-	-	-
3.5.4.3 Resource Management								-	-	-
3.5.4.4 Technical Order Management								-	-	-
3.5.4.5 Product Improvement Working Group /								-	-	-

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
Test Planning Working Group / System Training Plan / Product Improvement Review										
3.5.4.6 Financial Plan								-	-	-
3.5.4.7 Aircraft / Support Equipment Status Monitoring								-	-	-
3.5.4.8 Maintenance QPM Relationships								-	-	-
3.5.4.9 FOD Program Manager								-	-	-
3.5.4.10 Mobility								-	-	-
3.5.4.11 Aircraft Inspection Systems								-	A	-
3.5.4.12 Maintenance Incident Investigation and Prevention								-	-	-
3.5.4.13 Warranty Programs								-	-	-
3.5.4.14 Modification Proposal								-	-	-
3.5.4.15 SMR Change Request								-	-	-
3.5.4.16 Status Reports								-	-	-
3.5.4.17 Configuration Management								-	-	-
3.5.4.18 Status of Resources and Training (SORTS)								-	-	-
3.5.4.19 Coordinate Precision Measurement Equipment Laboratory Support								-	-	-
3.5.4.20 Minimum Essential Sub-System Listing (MESL)								-	-	-
3.5.5 Maintenance Information System (MIS) TR: AFI 21-101										
3.5.5.1 Purpose of the MIS								A	-	-
3.5.5.2 Maintenance Data Collection Forms								B	-	-
3.6 GENERAL COMPUTER PRINCIPLES (COMMON)										
3.6.1 Central Processing Unit								A	B	-
3.6.2 Memory Storage Devices								A	B	-
3.6.3 Power Supply								A	B	-
3.6.4 Controls and Displays								A	B	-
3.6.5 Redundant Array of Independent Disks 0-5								B	B	-
3.7 GLOBAL POSITIONING SYSTEM (GPS) (COMMON)										
3.7.1 Purpose and Characteristics								A	B	-
3.7.2 Theory of Operation								A	B	-
3.7.3 System Tie-In/ Integration								A	B	-
3.7.4 Operate Applicable MIS (IMDS, GO81, ECSS)										
3.7.4.1 Create Discrepancy								2b	-	-
3.7.4.2 Schedule Discrepancy								2b	-	-
3.7.4.3 Defer Discrepancy								2b	-	-
3.7.4.4 Transfer Discrepancy								2b	-	-
3.7.4.5 Sign-Off Discrepancy	*							2b	-	-
3.7.4.6 Supply Transactions								2b	-	-

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.7.4.7 Order Aircraft Parts								-	-	-
3.7.4.8 Maintenance / Supervision Transactions								-	-	-
3.7.4.9 Complete IMDS Course J6ANU00066-043 CAMS for Flightline and Backshop								-	-	-
3.7.5 Deficiency Reporting System										
3.7.5.1 Purpose								-	B	-
3.7.5.2 Product Quality Deficiency Report								-	A	-
3.7.6 Use Aircraft / Equipment Maintenance Forms										
3.7.6.1 AFTO Form 781A	*							2b	A	-
3.7.6.2 AFTO Form 781B								-	-	-
3.7.6.3 AFTO Form 781C								2b	A	-
3.7.6.4 AFTO Form 781H								2b	A	-
3.7.6.5 AFTO Form 781K	*							2b	A	-
3.7.6.6 AFTO Form 244 / 245	*							2b	A	-
3.7.6.7 Use AF Form 1492	*							2b	A	-
3.7.6.8 Use AFTO 349								-	-	-
3.7.6.9 Historical Records								-	-	-
3.8 SUPERVISION (COMMON) TR: AFI 36-2108/ AFI 36-2201/ AFI 21-101/ AFI 21-103										
3.8.1 Orient New Personnel								-	-	-
3.8.2 Assign Personnel to Work Assignments								-	-	-
3.8.3 Plan Work Assignments and Priorities								-	-	-
3.8.4 Schedule Work Assignments and Priorities								-	-	-
3.8.5 Coordinate Work Assignments								-	-	-
3.8.6 Establish										
3.8.6.1 Work Methods								-	-	-
3.8.6.2 Controls								-	-	-
3.8.6.3 Performance Standards								-	-	-
3.8.7 Evaluate Work Performance of Subordinate Personnel								-	-	-
3.8.8 Help Resolve Technical Problems for Subordinate								-	-	-
3.8.9 Initiate Actions to Correct Substandard Performance TR: AFI 36-2503 / AFI 36-2907 / AFI 36-3202 / AFI 36-3208								-	-	-
3.8.10 Counsel Personnel and Help Resolve Individual Problems TR: AFP 36-2618								-	-	-
3.8.11 Supervise TR: AFI 21-101										
3.8.11.1 Maintenance Actions TR: AFI 21-103								-	-	-
3.8.11.2 Inspection Actions								-	-	-
3.8.12 Use/ Interpret										

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.8.12.1 Maintenance Reports								-	-	-
3.8.12.2 Inspection Reports								-	-	-
3.8.12.3 Review Maintenance Documentation								-	-	-
3.8.13 Prepare										
3.8.13.1 Maintenance Inspection Reports and Charts								-	-	-
3.8.13.2 Organization and Functional Charts								-	-	-
3.8.14 Justify TR: AFI 21-101										
3.8.14.1 Personnel Manning Requirements								-	-	-
3.8.14.2 Equipment Authorizations								-	-	-
3.8.15 Recommend Policy Changes on Use of TR: AFI 21-101										
3.8.15.1 Personnel										
3.8.15.2 Equipment										
3.8.16 Statement of Charges TR: AFM 23-110 V-2								-	-	-
3.8.17 Perform Reports Of Survey TR: AFM 23-110 V-2								-	-	-
3.8.18 Aircraft Scheduling TR: AFI 21-101, AFI 21-103										
3.8.18.1 Utilize Flow Charts								-	-	-
3.8.18.2 Flying/ Maintenance Planning								-	-	-
3.8.18.3 Maintenance Mobility Planning								-	-	-
3.9 TRAINING (COMMON) TR: AFI 36-2201										
3.9.1 Evaluate Personnel for Need of Training								-	-	-
3.9.2 Plan and Supervise OJT/ Enlisted Training										
3.9.2.1 Prepare JQS (AF Form 797)								-	-	-
3.9.2.2 Conduct Training								-	-	-
3.9.2.3 Counsel Trainees on their Progress								-	-	-
3.9.3 Monitor Effectiveness Of Training										
3.9.3.1 Career Knowledge Upgrade								-	-	-
3.9.3.2 Job Proficiency Upgrade								-	-	-
3.9.3.3 Qualification Training								-	-	-
3.9.3.4 Maintain Training Records								-	-	-
3.9.3.5 Develop Training Programs										
3.9.3.6 Evaluate Effectiveness of Training Programs								-	-	-
3.9.4 OJT Trainer Requirements										
3.9.4.1 Prepare Teaching Outlines of Tasks Breakdowns								-	-	-
3.9.4.2 Provide Trainees Theory and Train on Actual Equipment								-	-	-
3.9.4.3 Provide Feedback on Training Provided								-	-	-
3.9.5 OJT Task Certifier Requirements										

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.9.5.1 Develop Methods of Evaluation to Determine Trainee Knowledge / Qualification and Training Effectiveness								-	-	-
3.9.5.2 Use Appropriate Method of Evaluation and Effectively Determine Trainees Ability								-	-	-
3.9.5.3 Provide Supervisor and Trainee Feedback on Results of Training Provided and Trainees Strengths and Weaknesses								-	-	-
3.9.6 Specialty Training Status (STS)								-	-	-
3.9.7 Occupational Survey Report (OSR)								-	-	-
3.9.8 Utilization and Training Workshop (U and TW)								-	-	-
3.9.9 Career Field Education and Training Program (CFETP)								-	-	-
<b>3.10 TECHNICAL PUBLICATIONS (COMMON)</b> TR: Applicable 00-series technical orders, 80-00-1										
3.10.1 Scope and Application of Technical Order System								A	B	-
3.10.2 Use Technical Order Indexes								-	-	-
3.10.3 Use Technical Orders								2b	-	-
3.10.4 Scope and Application of Technical Order Improvement/ Deficiency Report								A	A	-
3.10.5 Initiate Technical Order Improvement / Deficiency Report								-	-	-
3.10.6 Scope and Application of Computer Program Identification Number (CPIN) System								A	A	-
3.10.7 Use CPIN Compendium								-	-	-
3.10.8 Time Compliance Technical Orders								-	A	-
3.10.9 Maintain Technical Order Files								-	-	-
3.10.10 Electronic Technical Orders								A	-	-
<b>3.11 SUPPLY DISCIPLINE (COMMON)</b> TR: AFMAN 23-110										
3.11.1 Property Accountability and Responsibility								A	B	-
3.11.2 Equipment Authorization and Management								-	-	-
3.11.3 Special Requisitions								-	-	-
3.11.4 Verify Back Order								-	-	-
3.11.5 Use Equipment Condition Tags								2b	-	-
3.11.6 Use Microfiche/ Computer Based Programs								-	-	-
3.11.7 Use Issue / Turn-In Requests								-	-	-
3.11.8 Maintenance Supply Concept								-	-	-

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.11.9 Supply Documents Management								-	-	-
3.11.10 Equipment Account Management								-	-	-
3.11.11 Priority System								-	-	-
3.11.12 Repair Cycle								-	-	-
3.11.13 Classified Asset Handling								A	A	-
3.11.14 Land Mobile Radios / Pagers / Cell Phones								-	-	-
3.11.15 Depot Level Repairables								-	-	-
3.11.16 Use Supply Products										
3.11.16.1 DO4								-	-	-
3.11.16.2 D18								-	-	-
3.11.16.3 M30								-	-	-
3.11.16.4 D23								-	-	-
3.12 ELECTRONIC WARFARE PRINCIPLES (COMMON) TR: AFDD 2-5.1										
3.12.1 Electronic Warfare Combat Principles								B	B	-
3.12.2 Electromagnetic Radiation (Directed Energy)								B	B	-
3.12.3 EW Categories								B	B	-
3.12.4 Air Defense Systems								B	B	-
3.12.5 Infrared Principles								B	B	-
3.12.6 Radar Warning								B	B	-
3.13 SURVEILLANCE RADAR PRINCIPLES (COMMON)										
3.13.1 Theory of Operation										
3.13.1.1 Antenna Systems								-	B	-
3.13.1.2 Synthetic Aperture Radar								-	B	-
3.13.2 Frequency Generation										
3.13.2.1 Operating Frequencies								-	B	-
3.13.2.2 Local Oscillator Frequencies								-	B	-
3.13.2.3 Intermediate Frequencies								-	B	-
3.13.3 Amplification/ Transmitters										
3.13.3.1 Pulsing								-	B	-
3.13.3.2 Continuous Wave (CW)								-	B	-
3.13.3.3 Pulse Repetition Time/ Pulse Repetition Frequency								-	B	-
3.13.4 Receiver Processing										
3.13.4.1 IF Mixing								-	B	-
3.13.4.2 Analog to Digital Conversions								-	B	-
3.13.4.3 Clutter Processing								-	B	-
3.13.4.4 Pulse Compression/ Expansion								-	B	-
3.13.4.5 Doppler Processing								-	B	-
3.13.4.6 Timing and Synchronization								-	B	-
3.14 FUNDAMENTALS OF AVIONIC SYSTEMS MAINTENANCE/ ON										

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
EQUIPMENT (COMMON) TR: Applicable aircraft -1 and -2 series technical orders/ TO 00-25-234/ TO 1- 1A-14/ TO 33-1-32										
3.14.1 Nuclear Hardness Maintenance and Inspections TR: Applicable System JG-00-1/ 1-1A- 14								A	-	-
3.14.2 Use Aircraft Hardware TR: AFI 91-408/ Applicable Aircraft TOs								-	-	-
3.14.3 Consolidated Tool Kits TR: AFI 21-101										
3.14.3.1 Inventory	*							2b	B	-
3.14.3.2 Tool Accountability								A	B	-
3.14.3.3 Lost Tool Report								-	B	-
3.14.4 Use Common Tools TR: AFI 91-408/ TOs 00-25-24, 32-1- 1, 32-1-2, 32-1-101, 32-1-2011-1-691	*							2b	-	-
3.14.5 Use Torque Indicating Devices	*							2b	B	-
3.14.6 Use Special Purpose Tools								-	-	-
3.14.7 Protect Electrostatic Devices								B	-	-
3.14.8 Identify and Perform Corrosion Control								a	-	-
3.14.9 Safety Wire	*							2b	-	-
3.14.10 Use Safetying Devices								-	-	-
3.14.11 Shear Wire								b	-	-
3.14.12 Use Panel Sealants / Gaskets								-	A	-
3.15 GENERAL ORGANIZATIONAL MAINTENANCE (COMMON) TR: Applicable Aircraft -1/ -2 Series TOs										
3.15.1 Ensure Aircraft Safe for Maintenance								2b	-	-
3.15.2 Aircraft Familiarization										
3.15.2.1 Major Structural Areas								A	A	-
3.15.2.2 Major Systems								A	A	-
3.15.2.3 Danger Areas								A	B	-
3.15.2.4 Egress Systems								A	-	-
3.15.3 Apply External Air Conditioning								-	-	-
3.15.4 Apply External Power								2b	-	-
3.15.5 Central Aircraft Support System (CASS)								-	-	-
3.15.6 Perform Selected Classified Data Erase								-	-	-
3.15.7 Apply Hydraulic Power								-	-	-
3.15.8 Perform Proximity Switch Control Covering/ Uncovering								-	-	-
3.15.9 Practice Safe Entry Procedures on Aircraft with Open Fuel Cells								-	-	-
3.15.10 Purpose of Radar Absorption Material (RAM)								A	-	-

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.15.11 Operate Motorized Maintenance Stand								-	-	-
3.15.12 Operate Crane								-	-	-
3.15.13 Launch/ Recover Aircraft								-	-	-
3.15.14 Tow Aircraft										
3.15.14.1 Wing/ Tail Walker								-	-	-
3.15.14.2 Brake Operator								-	-	-
3.15.14.3 Tow Supervisor								-	-	-
3.15.14.4 Tow Vehicle Operator								-	-	-
3.15.15 Perform Aircraft Inspection										
3.15.15.1 Phase								-	A	-
3.15.15.2 Isochronal								-	A	-
3.15.15.3 Special (excluding AN/USM-464 and AN/ALM-288 checks)								-	A	-
3.15.15.4 Perform Aircraft Wash								-	-	-
3.15.15.5 Perform Aircraft De-Icing								-	-	-
3.15.15.6 Brief/ Debrief Aircrews								-	-	-
3.15.16 Use Powered AGE										
3.15.16.1 Bleed Air Cart								-	-	-
3.15.16.2 Heater								-	-	-
3.15.16.3 Air Conditioner								-	-	-
3.15.16.4 Light Cart								-	-	-
3.15.16.5 Air Compressor (MC-1A / MC-2A)								-	-	-
3.15.16.6 Ground Power Unit								-	-	-
3.15.16.7 Powered Man-Lifts								-	-	-
3.15.16.8 Motorized Maintenance Stand								-	-	-
3.15.16.9 Nitrogen Cart								-	-	-
3.15.17 Use Non-Powered AGE										
3.15.17.1 Maintenance Platform (B-1)								2b	-	-
3.15.17.2 Maintenance Platform (B-2)								-	-	-
3.15.17.3 Maintenance Platform (B-4 / B-5)								2b	-	-
3.15.17.4 Maintenance Platform (B-6)								-	-	-
3.15.17.5 Maintenance Platform (B-7)								-	-	-
3.15.17.6 Maintenance Platform (C-1)								-	-	-
3.15.18 Data Bus Principles / Maintenance Practices										
3.15.18.1 Local Area Networks								A	B	-
3.15.18.2 Network Management								-	-	-
3.15.18.3 Build CAT 5 Cable								-	-	-
3.15.18.4 Test CAT 5 Cable								-	-	-
3.15.18.5 Network Configuration								-	-	-
3.15.18.6 MIL-STD-1553A								A	A	-
3.15.18.7 MIL-STD-1553B								A	A	-
3.15.18.8 RS-232								-	-	-
3.15.18.9 RS-422								-	-	-
3.15.18.10 MIL-STD-1760								-	-	-

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.15.18.11 Fiber Optics								-	B	-
3.15.18.12 Troubleshoot Data Bus								-	-	-
<b>3.16 USE TEST EQUIPMENT (COMMON)</b>										
3.16.1 Radar Simulator								2b	A	-
3.16.2 Serial Bus Analyzer								-	-	-
3.16.3 Transmission Line Test Set								1b	A	-
3.16.4 Fiber Optic Test Set								2b/b	A	-
3.16.5 Pulse Generator								2b	-	-
3.16.6 Network Analyzer								-	-	-
3.16.7 Power Meter								2b	A	-
3.16.8 Spectrum Analyzer								2b	A	-
3.16.9 Time Domain Reflect Meter (TDR)								1b	A	-
3.16.10 ALM-288								2b	A	-
3.16.11 Frequency Counter								2b	A	-
3.16.12 Oscilloscope								2b	A	-
3.16.13 Multimeter								2b	A	-
3.16.14 Ethernet Cable Tester								-	-	-
3.16.15 RF Signal Generator								2b	-	-
3.16.16 Milliohm Meter								-	-	-
<b>3.16.17 Reprogramming Support Equipment</b>										
3.16.17.1 Data Access Devices								-	-	-
3.16.17.2 Data Transfer Devices								2b	A	-
<b>3.17 MAINTAIN (COMMON)</b>										
3.17.1 PLM-4 Radar Simulator or Equivalent								-	A	-
3.17.2 PYM-1 CAPRE								-	A	-
3.17.3 MWS Sensor Simulator								-	-	-
3.17.4 MWS Test Set								-	-	-
3.17.5 AN/ALM-288 Countermeasure Dispenser Tester (CDT)								-	A	-
3.17.6 AN/ALM 178 TR: TM 11-6625-2739-14								-	A	-
3.17.7 AN/USM-464A								-	B	-
3.17.8 AN/PLM-6B Multi-Purpose Electro- Optical End-to-End Tester (MEON)								-	A	-
<b>3.18 AIRCRAFT WIRING/ TRANSMISSION LINES (COMMON) TR: TO 1-1A-14/ TO 12P3-1-10/ TO 31- 10-14</b>										
3.18.1 Kapton Wire								-	-	-
3.18.2 Multiconductor								-	B	-
3.18.3 Coaxial/ Triaxial/ Twinaxial								-	B	-
3.18.4 Nuclear Hardened Cable								-	-	-
3.18.5 Waveguides								-	B	-
3.18.6 Single Conductor								-	B	-
3.18.7 Rigid Coaxial								-	B	-
3.18.8 Fiber Optics								-	B	-

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.19 PERFORM WIRE MAINTENANCE (COMMON) TR: TO 1-1a-14/ TO 31-10-14										
3.19.1 Stripping								2b	B	-
3.19.2 Video Splicing								2b/b	B	-
3.19.3 Environmental Splicing								-	B	-
3.19.4 Bundling								2b	B	-
3.19.5 Strain Relief								2b	B	-
3.19.6 Continuity Checks								2b	-	-
3.19.7 Wire Repair	*							-	B	-
3.19.8 Splice Fiber Optics								-	-	-
3.19.9 Clean Fiber Optics								-	-	-
3.19.10 Solder RF Connector								2b/b	-	-
3.19.11 Assemble / Disassemble Solderless Connectors										
3.19.11.1 Crimp Connectors	*							2b/b	-	-
3.19.11.2 Coaxial Connectors								2b/b	-	-
3.20 REMOVE AND INSTALL NOTE: Qualification on line items 3.20.1 through 3.20.14 qualifies the individual on all similar system components throughout this training record unless identified separately in the specific system or in writing by the supervisor.										
3.20.1 Shock Mounted	*							-	-	-
3.20.2 Tray Mounted	*							-	-	-
3.20.3 Rack Mounted	*							-	-	-
3.20.4 Console Mounted	*							2b	-	-
3.20.5 Aircraft Surface Mounted	*							2b	-	-
3.20.6 Clamp Mounted Components								-	-	-
3.20.7 Bezel Mounted Components								-	-	-
3.20.8 Latch Mounted Components	*							-	-	-
3.20.9 Bulkhead Mounted								-	-	-
3.20.10 Equipment Mounted	*							-	-	-
3.20.11 Minor Parts and Hardware (i.e. relay, switches, bulbs, circuit breakers)	*							-	-	-
3.20.12 Capacitors / Resistors / Diodes								-	-	-
3.20.13 Terminal / Modular Blocks								-	-	-
3.20.14 Chassis Mounted								-	-	-
3.21 BIT THEORY OF OPERATION										
3.21.1 Manual BIT								A	-	-
3.21.2 Automatic BIT								A	-	-
3.22 PANORAMIC RECIEVER										
3.22.1 Purpose and Characteristics								-	-	-
3.22.2 Theory of Operation								B	B	-
3.22.3 System Tie-In/Integration								-	-	-
3.22.4 Perform Operational Check								2b	-	-

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.22.5 Troubleshoot								2b	-	-
<b>3.23 RF JAMMING TRANSMITTER SET</b>										
3.23.1 Purpose and Characteristics								-	-	-
3.23.2 Theory of Operation								B	B	-
3.23.3 System Tie-In/Integration								-	-	-
3.23.4 Perform Operational Check								-	-	-
3.23.5 Reprogram								2b	-	-
3.23.6 Troubleshoot								2b	-	-
<b>3.24 AN/ALE-47 CMDS</b>										
3.24.1 Purpose and Characteristics								-	-	-
3.24.2 Theory of Operation								B	-	-
3.24.3 System Tie-In/Integration								-	-	-
3.24.4 Perform Operational Check								2b	-	-
3.24.5 Reprogram								2b	-	-
3.24.6 Troubleshoot								2b	-	-
<b>3.25 AN/AAR-47 (V1) MISSILE WARNING SYSTEM</b>										
3.25.1 Purpose and Characteristics								-	-	-
3.25.2 Theory of Operation								-	-	-
3.25.3 System Tie-In/Integration								-	-	-
3.25.4 Perform Operational Check								-	-	-
3.25.5 Reprogram								-	-	-
3.25.6 Troubleshoot								-	-	-
<b>3.26 AN/AAR-47 (V2) MISSILE WARNING SYSTEM</b>										
3.26.1 Purpose and Characteristics								-	-	-
3.26.2 Theory of Operation								B	-	-
3.26.3 System Tie-In/Integration								-	-	-
3.26.4 Perform Operational Check								2b/b	-	-
3.26.5 Reprogram								2b/b	-	-
3.26.6 Troubleshoot								-	-	-
<b>3.27 RADAR WARNING RECEIVER</b>										
3.27.1 Purpose and Characteristics								-	-	-
3.27.2 Theory of Operation								B	-	-
3.27.3 System Tie-In/Integration								-	-	-
3.27.4 Perform Operational Check								2b	-	-
3.27.5 Reprogram								2b	-	-
<b>3.28 AN/AAQ-24 (V) 13 LARGE AIRCRAFT INFRARED COUNTERMEASURES SYSTEM (LAIRCM)</b>										
3.28.1 Purpose and Characteristics								-	-	-
3.28.2 Theory of Operation								B	-	-
3.28.3 System Tie-In/Integration								-	-	-
3.28.4 Perform Operational Check								2b/b	-	-
3.28.5 Reprogram								2b/b	-	-
<b>3.29 DATA LINK</b>										

**B-1, B-2 and B-52 GENERAL TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	3. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.29.1 Purpose and Characteristics								-	-	-
3.29.2 Theory of Operation								-	-	-
3.29.3 System Tie-In/Integration								-	-	-
3.29.4 Perform Operational Check								-	-	-

**E-3 RADAR TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC

**Attachment 4 E-3 Radar Training Requirements**

NOTE 1: The apprentice course, J3ABR2A933XXXXX, Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

NOTE 2: All course requirements are trained in the 3-level resident course during wartime.

NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.

NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).

NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an “\*” does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.

NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908

4.1 Airborne Warning and Control System General Organization Maintenance (E-3)										
4.1.1 Apply External Power TR: TO 1E-3A-2-1-1	*							-	-	-
4.1.2 Apply external Air Cooling TR: TO 1E-3A-43-2-93-1-2 / TO 1E-3A-43-2-93-3-15 / TO 1E-3A-43-2-93-3-22	*							-	-	-
4.1.3 Rotate Rotodome	*							-	-	-
4.1.4 Enter/Exit Forward/AFT lower lobe	*							-	-	-
4.1.5 Enter/ Exit Antenna Pedestal	*							-	-	-
4.1.6 Perform In-Flight Maintenance Spares (IFMS) Inventory	*							-	-	-
4.1.7 Remove and Install Rotodome Interior Panels		*						-	-	-
4.1.8 Radar Turn-on/Turn-off Procedures	*							-	-	-
4.1.9 Radar Emergency Shutdown Procedures	*							-	-	-
4.1.10 Radar Antenna Fill and Bleed		*						-	-	-
4.1.11 Radar Preflight/Thruflight/Pre-Launch Inspection	*							-	-	-
4.1.12 High Voltage Cable Cleaning and Inspection		*						-	-	-
4.1.13 Service SF-6 bottle	*							-	-	-
4.1.14 Rotodome 7-Level FOD Inspection		*						-	-	-
4.1.15 Transfer of radar test targets across the interface	*							-	-	-
4.1.16 Apply External Liquid Cooling	*							-	-	-
4.2 AWACS Radar System										
4.2.1 E-3 Mission Crew Compartment										
4.2.1.1 Radar Control and Maintenance Console (RCMC) TR: TO 1E-3A-43-2-93-3-17										
4.2.1.1.1 Locate LRU's and Circuit breakers	*							-	-	-
4.2.1.1.2 Signal flow and Functional Description	*							-	-	-
4.2.1.1.3 Isolate and Correct Malfunction	*							-	-	-
4.2.1.1.4 Remove and Replace LRU's	*							-	-	-
4.2.1.1.5 Enter/Exit Console Mode	*							-	-	-

**E-3 RADAR TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.2.1.1.6 Mount/Dismount Disk	*							-	-	-
4.2.1.1.7 Reset and Recycle Control	*							-	-	-
4.2.1.1.8 Reset OPS	*							-	-	-
4.2.1.1.9 Operational Checkout	*							-	-	-
4.2.1.1.10 Advanced Troubleshooting		*						-	-	-
4.2.1.2 Digital Cabinet (4A1) TR: TO 1E-3A-43-2-93-3-18 / TO 1E-3A-43-2-93-3-19										
4.2.1.2.1 Radar Interface Adapter Unit (RIAU)										
4.2.1.2.1.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.2.1.2 Signal Flow and Functional Description	*							-	-	-
4.2.1.2.1.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.2.1.4 Remove and Replace LRU's	*							-	-	-
4.2.1.2.1.5 Operational Checkout	*							-	-	-
4.2.1.2.1.6 Advanced Troubleshooting		*						-	-	-
4.2.1.2.2 Adaptive Signal Processor (ASP)										
4.2.1.2.2.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.2.2.2 Signal Flow and Functional Description	*							-	-	-
4.2.1.2.2.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.2.2.4 Remove and Replace LRU's	*							-	-	-
4.2.1.2.2.5 Operational Checkout	*							-	-	-
4.2.1.2.2.6 Advanced Troubleshooting		*						-	-	-
4.2.1.2.3 Radar Data Processor (RDP)										
4.2.1.2.3.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.2.3.2 Signal Flow and Functional Description	*							-	-	-
4.2.1.2.3.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.2.3.4 Remove and Replace LRU's	*							-	-	-
4.2.1.2.3.5 Operational Checkout	*							-	-	-
4.2.1.2.3.6 Advanced Troubleshooting		*						-	-	-
4.2.1.3 Analog Cabinet (4A2) TR: TO 1E-3A-43-2-93-3-22										
4.2.1.3.1 Synchronizer TR: TO 1E-3A-43-2-93-3-23										
4.2.1.3.1.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.3.1.2 Signal Flow and Functional Description	*							-	-	-
4.2.1.3.1.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.3.1.4 Remove and Replace LRU's	*							-	-	-
4.2.1.3.1.5 Operational Checkout	*							-	-	-
4.2.1.3.1.6 Advanced Troubleshooting		*						-	-	-
4.2.1.3.2 PD Receivers										
4.2.1.3.2.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.3.2.2 Signal Flow and Functional Description	*							-	-	-

**E-3 RADAR TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.2.1.3.2.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.3.2.4 Remove and Replace LRU's	*							-	-	-
4.2.1.3.2.5 Operational Checkout	*							-	-	-
4.2.1.3.2.6 Advanced Troubleshooting		*						-	-	-
4.2.1.3.3 BTH Receivers										
4.2.1.3.3.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.3.3.2 Signal Flow and Functional Description	*							-	-	-
4.2.1.3.3.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.3.3.4 Remove and Replace LRU's	*							-	-	-
4.2.1.3.3.5 Operational Checkout	*							-	-	-
4.2.1.3.3.6 Advanced Troubleshooting		*						-	-	-
4.2.1.3.4 Stable Local Oscillator (STALO)										
4.2.1.3.4.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.3.4.2 Signal Flow and Functional Description	*							-	-	-
4.2.1.3.4.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.3.4.4 Remove and Replace LRU's	*							-	-	-
4.2.1.3.4.5 Operational Checkout	*							-	-	-
4.2.1.3.4.6 Advanced Troubleshooting		*						-	-	-
4.2.1.3.5 Acoustical Enclosure										
4.2.1.3.5.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.3.5.2 Signal Flow and Functional Description	*							-	-	-
4.2.1.3.5.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.3.5.4 Remove and Replace LRU's	*							-	-	-
4.2.1.3.5.5 Operational Checkout	*							-	-	-
4.2.1.3.5.6 Advanced Troubleshooting		*						-	-	-
4.2.1.4 Maritime Cabinet (4A3) APY-2 Only										
4.2.1.4.1 MSC Receiver										
4.2.1.4.1.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.4.1.2 Signal Flow and Functional Description	*							-	-	-
4.2.1.4.1.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.4.1.4 Remove and Replace LRU's	*							-	-	-
4.2.1.4.1.5 Operational Checkout	*							-	-	-
4.2.1.4.1.6 Advanced Troubleshooting		*						-	-	-
4.2.1.4.2 Digital Land Mass Blanker (DLMB)										
4.2.1.4.2.1. Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.4.2.2 Signal Flow and Functional Description	*							-	-	-
4.2.1.4.2.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.4.2.4 Remove and Replace LRU's	*							-	-	-
4.2.1.4.2.5 Operational Checkout	*							-	-	-
4.2.1.4.2.6 Advanced Troubleshooting		*						-	-	-
4.2.1.4.3 Dehydrator										

E-3 RADAR TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.2.1.4.3.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.1.4.3.2 Signal Flow and Functional Description	*							-	-	-
4.2.1.4.3.3 Isolate and correct Malfunction	*							-	-	-
4.2.1.4.3.4 Remove and Replace LRU's	*							-	-	-
4.2.1.4.3.5 Operational Checkout	*							-	-	-
4.2.1.4.3.6 Advanced Troubleshooting		*						-	-	-
4.2.2 E-3 Aft Lower Lobe										
4.2.2.1 EMI Filter (3A1)										
4.2.2.1.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.1.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.1.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.1.4 Remove and Replace LRU's	*							-	-	-
4.2.2.1.5 Operational Checkout	*							-	-	-
4.2.2.1.6 Advanced Troubleshooting		*						-	-	-
4.2.2.2 Transformer (3A1A3)										
4.2.2.2.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.2.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.2.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.2.4 Remove and Replace LRU's	*							-	-	-
4.2.2.2.5 Operational Checkout	*							-	-	-
4.2.2.2.6 Advanced Troubleshooting		*						-	-	-
4.2.2.3 Filter (3A2)										
4.2.2.3.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.3.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.3.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.3.4 Remove and Replace LRU's	*							-	-	-
4.2.2.3.5 Operational Checkout	*							-	-	-
4.2.2.3.6 Advanced Troubleshooting		*						-	-	-
4.2.2.4 Regulators (3A3, 3A4)										
4.2.2.4.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.4.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.4.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.4.4 Remove and Replace LRU's	*							-	-	-
4.2.2.4.5 Operational Checkout	*							-	-	-
4.2.2.4.6 Advanced Troubleshooting		*						-	-	-
4.2.2.5 High Voltage Auxiliary (3A7)										
4.2.2.5.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.5.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.5.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.5.4 Remove and Replace LRU's	*							-	-	-

E-3 RADAR TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.2.2.5.5 Operational Checkout	*							-	-	-
4.2.2.5.6 Advanced Troubleshooting		*						-	-	-
4.2.2.6 Pre-drivers (3A8, 3A9)										
4.2.2.6.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.6.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.6.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.6.4 Remove and Replace LRU's	*							-	-	-
4.2.2.6.5 Operational Checkout	*							-	-	-
4.2.2.6.6 Advanced Troubleshooting		*						-	-	-
4.2.2.7 Transmit Angle Control (3A12)										
4.2.2.7.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.7.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.7.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.7.4 Remove and Replace LRU's	*							-	-	-
4.2.2.7.5 Operational Checkout	*							-	-	-
4.2.2.7.6 Advanced Troubleshooting		*						-	-	-
4.2.2.8 Drivers (3A13, 3A14)										
4.2.2.8.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.8.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.8.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.8.4 Remove and Replace LRU's	*							-	-	-
4.2.2.8.5 Operational Checkout	*							-	-	-
4.2.2.8.6 Advanced Troubleshooting		*						-	-	-
4.2.2.9 Klystron Power Amplifier (KPA) (3A5A2, 3A6A2)										
4.2.2.9.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.9.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.9.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.9.4 Remove and Replace LRU's	*							-	-	-
4.2.2.9.5 Operational Checkout	*							-	-	-
4.2.2.9.6 Build Up Klystron and Solenoid Assembly		*						-	-	-
4.2.2.9.7 Advanced Troubleshooting		*						-	-	-
4.2.2.10 Floating Deck Pulser (FDP) (3A5A1A1, 3A6A1A1)										
4.2.2.10.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.10.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.10.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.10.4 Remove and Replace LRU's	*							-	-	-
4.2.2.10.5 Operational Checkout	*							-	-	-
4.2.2.10.6 Advanced Troubleshooting		*						-	-	-

E-3 RADAR TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.2.2.11 Standby and Power Distribution (3A17)										
4.2.2.11.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.11.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.11.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.11.4 Remove and Replace LRU's	*							-	-	-
4.2.2.11.5 Operational Checkout	*							-	-	-
4.2.2.11.6 Advanced Troubleshooting		*						-	-	-
4.2.2.12 Protection and Control (3A16)										
4.2.2.12.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.12.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.12.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.12.4 Remove and Replace LRU's	*							-	-	-
4.2.2.12.5 Operational Checkout	*							-	-	-
4.2.2.12.6 Advanced Troubleshooting		*						-	-	-
4.2.2.13 Solenoid Power Supply (3A18)										
4.2.2.13.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.13.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.13.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.13.4 Remove and Replace LRU's	*							-	-	-
4.2.2.13.5 Operational Checkout	*							-	-	-
4.2.2.13.6 Advanced Troubleshooting		*						-	-	-
4.2.2.14 ION Pump Power Supply (3A5A3, 3A6A3)										
4.2.2.14.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.14.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.14.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.14.4 Remove and Replace LRU's	*							-	-	-
4.2.2.14.5 Operational Checkout	*							-	-	-
4.2.2.14.6 Advanced Troubleshooting		*						-	-	-
4.2.2.15 RF Sample Assembly (3A15)										
4.2.2.15.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.15.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.15.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.15.4 Remove and Replace LRU's	*							-	-	-
4.2.2.15.5 Operational Checkout	*							-	-	-
4.2.2.15.6 Advanced Troubleshooting		*						-	-	-
4.2.2.16 Ground Deck Pulser (3A5A1A2, 3A6A1A2)										
4.2.2.16.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.16.2 Signal Flow and Functional Description	*							-	-	-

E-3 RADAR TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.2.2.16.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.16.4 Remove and Replace LRU's	*							-	-	-
4.2.2.16.5 Operational Checkout	*							-	-	-
4.2.2.16.6 Advanced Troubleshooting		*						-	-	-
4.2.2.17 Low Voltage Auxiliary (3A23)										
4.2.2.17.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.17.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.17.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.17.4 Remove and Replace LRU's	*							-	-	-
4.2.2.17.5 Operational Checkout	*							-	-	-
4.2.2.17.6 Advanced Troubleshooting		*						-	-	-
4.2.2.18 SF-6 System										
4.2.2.18.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.18.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.18.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.18.4 Remove and Replace LRU's	*							-	-	-
4.2.2.18.5 Operational Checkout	*							-	-	-
4.2.2.18.6 Advanced Troubleshooting		*						-	-	-
4.2.2.19 Radar Liquid Coolant System										
4.2.2.19.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.2.19.2 Signal Flow and Functional Description	*							-	-	-
4.2.2.19.3 Isolate and correct Malfunction	*							-	-	-
4.2.2.19.4 Remove and Replace LRU's	*							-	-	-
4.2.2.19.5 Operational Checkout	*							-	-	-
4.2.2.19.6 Advanced Troubleshooting		*						-	-	-
4.2.3 E-3 Antenna										
4.2.3.1 RF Manifold										
4.2.3.1.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.3.1.2 Signal Flow and Functional Description	*							-	-	-
4.2.3.1.3 Isolate and correct Malfunction	*							-	-	-
4.2.3.1.4 Remove and Replace LRU's	*							-	-	-
4.2.3.1.5 Operational Checkout	*							-	-	-
4.2.3.1.6 Advanced Troubleshooting		*						-	-	-
4.2.3.2 Phase Shifter Driver Unit										
4.2.3.2.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.3.2.2 Signal Flow and Functional Description	*							-	-	-
4.2.3.2.3 Isolate and correct Malfunction	*							-	-	-
4.2.3.2.4 Remove and Replace LRU's	*							-	-	-
4.2.3.2.5 Operational Checkout	*							-	-	-
4.2.3.2.6 Advanced Troubleshooting		*						-	-	-
4.2.3.3 Microwave Receiver										

E-3 RADAR TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.2.3.3.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.3.3.2 Signal Flow and Functional Description	*							-	-	-
4.2.3.3.3 Isolate and correct Malfunction	*							-	-	-
4.2.3.3.4 Remove and Replace LRU's	*							-	-	-
4.2.3.3.5 Operational Checkout	*							-	-	-
4.2.3.3.6 Advanced Troubleshooting		*						-	-	-
4.2.3.4 Phase Shifter Control Unit										
4.2.3.4.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.3.4.2 Signal Flow and Functional Description	*							-	-	-
4.2.3.4.3 Isolate and correct Malfunction	*							-	-	-
4.2.3.4.4 Remove and Replace LRU's	*							-	-	-
4.2.3.4.5 Operational Checkout	*							-	-	-
4.2.3.4.6 Advanced Troubleshooting		*						-	-	-
4.2.3.5 Thermal Stabilization Unit										
4.2.3.5.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.3.5.2 Signal Flow and Functional Description	*							-	-	-
4.2.3.5.3 Isolate and correct Malfunction	*							-	-	-
4.2.3.5.4 Remove and Replace LRU's	*							-	-	-
4.2.3.5.6 Operational Checkout	*							-	-	-
4.2.3.5.7 Advanced Troubleshooting		*						-	-	-
4.2.3.6 Rotary Joint										
4.2.3.6.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.3.6.2 Signal Flow and Functional Description	*							-	-	-
4.2.3.6.3 Isolate and correct Malfunction	*							-	-	-
4.2.3.6.4 Remove and Replace LRU's	*							-	-	-
4.2.3.6.5 Operational Checkout	*							-	-	-
4.2.3.6.6 Perform Rotary Joint Brush Block Inspection		*						-	-	-
4.2.3.6.7 Advanced Troubleshooting		*						-	-	-
4.2.3.7 Waveguide										
4.2.3.7.1 Locate LRU and Circuit Breakers	*							-	-	-
4.2.3.7.2 Signal Flow and Functional Description	*							-	-	-
4.2.3.7.3 Isolate and correct Malfunction	*							-	-	-
4.2.3.7.4 Remove and Replace LRU's	*							-	-	-
4.2.3.7.5 Operational Checkout	*							-	-	-
4.2.3.7.6 Transmitter Ground Radiation Procedure		*						-	-	-
4.2.3.7.7 Advanced Troubleshooting		*						-	-	-
4.3 AWACS Identification Friend or Foe (IFF) System										
4.3.1 E-3 Mission Crew Compartment										

E-3 RADAR TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.3.1.1 E-17 Cabinet										
4.3.1.1.1 Receiver Transmitter (RT)										
4.3.1.1.1.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.1.1.1.2 Signal Flow and Functional Description	*							-	-	-
4.3.1.1.1.3 Isolate and correct Malfunction	*							-	-	-
4.3.1.1.1.4 Remove and Replace LRU's	*							-	-	-
4.3.1.1.1.5 Operational Checkout	*							-	-	-
4.3.1.1.1.6 Advanced Troubleshooting		*						-	-	-
4.3.1.1.2 Radar Target Data Processor (RTDP)										
4.3.1.1.2.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.1.1.2.2 Signal Flow and Functional Description	*							-	-	-
4.3.1.1.2.3 Isolate and correct Malfunction	*							-	-	-
4.3.1.1.2.4 Remove and Replace LRU's	*							-	-	-
4.3.1.1.2.5 Operational Checkout	*							-	-	-
4.3.1.1.2.6 Advanced Troubleshooting		*						-	-	-
4.3.1.1.3 Power Supply										
4.3.1.1.3.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.1.1.3.2 Signal Flow and Functional Description	*							-	-	-
4.3.1.1.3.3 Isolate and correct Malfunction	*							-	-	-
4.3.1.1.3.4 Remove and Replace LRU's	*							-	-	-
4.3.1.1.3.5 Operational Checkout	*							-	-	-
4.3.1.1.3.6 Advanced Troubleshooting		*						-	-	-
4.3.1.1.4 Interrogator Computer										
4.3.1.1.4.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.1.1.4.2 Signal Flow and Functional Description	*							-	-	-
4.3.1.1.4.3 Isolate and correct Malfunction	*							-	-	-
4.3.1.1.4.4 Remove and Replace LRU's	*							-	-	-
4.3.1.1.4.5 Operational Checkout	*							-	-	-
4.3.1.1.4.6 Advanced Troubleshooting		*						-	-	-
4.3.1.1.5 Transmission Line Switch										
4.3.1.1.5.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.1.1.5.2 Signal Flow and Functional Description	*							-	-	-
4.3.1.1.5.3 Isolate and correct Malfunction	*							-	-	-
4.3.1.1.5.4 Remove and Replace LRU's	*							-	-	-
4.3.1.1.5.5 Operational Checkout	*							-	-	-
4.3.1.1.5.6 Advanced Troubleshooting		*						-	-	-
4.3.2 E-3 IFF Rotodome										
4.3.2.1 Control										
4.3.2.1.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.2.1.2 Signal Flow and Functional Description	*							-	-	-

**E-3 RADAR TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.3.2.1.3 Isolate and correct Malfunction	*							-	-	-
4.3.2.1.4 Remove and Replace LRU's	*							-	-	-
4.3.2.1.5 Operational Checkout	*							-	-	-
4.3.2.1.6 Advanced Troubleshooting		*						-	-	-
4.3.2.2 Drive										
4.3.2.2.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.2.2.2 Signal Flow and Functional Description	*							-	-	-
4.3.2.2.3 Isolate and correct Malfunction	*							-	-	-
4.3.2.2.4 Remove and Replace LRU's	*							-	-	-
4.3.2.2.5 Operational Checkout	*							-	-	-
4.3.2.2.6 Advanced Troubleshooting		*						-	-	-
4.3.2.3 Power Divider										
4.3.2.3.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.2.3.2 Signal Flow and Functional Description	*							-	-	-
4.3.2.3.3 Isolate and correct Malfunction	*							-	-	-
4.3.2.3.4 Remove and Replace LRU's	*							-	-	-
4.3.2.3.5 Operational Checkout	*							-	-	-
4.3.2.3.6 Advanced Troubleshooting		*						-	-	-
4.3.2.4 RF Detector										
4.3.2.4.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.2.4.2 Signal Flow and Functional Description	*							-	-	-
4.3.2.4.3 Isolate and correct Malfunction	*							-	-	-
4.3.2.4.4 Remove and Replace LRU's	*							-	-	-
4.3.2.4.5 Operational Checkout	*							-	-	-
4.3.2.4.6 Advanced Troubleshooting		*						-	-	-
4.3.2.5 Transmission Line Coupler										
4.3.2.5.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.2.5.2 Signal Flow and Functional Description	*							-	-	-
4.3.2.5.3 Isolate and correct Malfunction	*							-	-	-
4.3.2.5.4 Remove and Replace LRU's	*							-	-	-
4.3.2.5.5 Operational Checkout	*							-	-	-
4.3.2.5.6 Advanced Troubleshooting		*						-	-	-
4.3.2.6 AWACS System M										
4.3.2.6.1 Locate LRU and Circuit Breakers	*							-	-	-
4.3.2.6.2 Signal Flow and Functional Description	*							-	-	-
4.3.2.6.3 Isolate and correct Malfunction	*							-	-	-
4.3.2.6.4 Remove and Replace LRU's	*							-	-	-
4.3.2.6.5 Operational Checkout	*							-	-	-
4.3.2.6.6 Advanced Troubleshooting		*						-	-	-
4.3.3 AWACS Radar Calibrations/Adjustments										
4.3.3.1 Transmitter Calibrations										

**E-3 RADAR TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.3.3.1.1 Solenoid Current	*							-	-	-
4.3.3.1.2 Beam Voltage	*							-	-	-
4.3.3.1.3 Collector Current	*							-	-	-
4.3.3.1.4 KPA Burn In	*							-	-	-
4.3.3.1.5 Average Power Calibration	*							-	-	-
4.3.3.1.6 TAC Peak Power	*							-	-	-
4.3.3.1.7 TAC Curve Calibration	*							-	-	-
4.3.3.1.8 Phase Compensation Calibration	*							-	-	-
4.3.3.1.9 Reflected Power Calibration	*							-	-	-
4.3.3.1.10 Transmitter Peak Power Calibration	*							-	-	-
4.3.3.1.11 TAC Thermal Assembly Adjustments	*							-	-	-
<b>4.3.4 Bit Target Generator (BTG) Calibrations/Adjustments</b>										
4.3.4.1. BIT Target Generator Calibrations	*							-	-	-
4.3.4.2 Path Insertion	*							-	-	-
4.3.4.3 10db Loss Measurement	*							-	-	-
4.3.4.4 40db Loss Measurement	*							-	-	-
4.3.4.5 VCA Loss Measurement	*							-	-	-
4.3.4.6 Power Correction	*							-	-	-
4.3.4.7 Target Power Adjustment	*							-	-	-
<b>4.3.5 Noise Diode Calibration</b>										
4.3.5.1 Line Loss								-	-	-
4.3.5.2 Noise Measurement								-	-	-
4.3.5.3 Noise Diode Calibration								-	-	-
4.3.5.4 Analog to Digital Offset Adjustment								-	-	-
4.3.5.5 Spectrum Generator 60MHz Target Adjustment								-	-	-
4.3.5.6 BTG Target 2 Center Frequency Adjustment								-	-	-
4.3.5.7 BTG Cal - Receiver Gain Adjustments								-	-	-
4.3.5.8 BTH IF Test and Adjustment								-	-	-
<b>4.3.6 AWACS Radar Special Support Equipment</b>										
4.3.6.1 Mega ohmmeter								-	-	-
4.3.6.2 X-Y Recorder								-	-	-
4.3.6.3 Analog Receiver Test Set (RIB) TR: TO 33D7-17-60-1								-	-	-
4.3.6.4 Radar Test Set AN / UPM-155 TR: TO 33A1-3-426-3 / TO 12P4-1A- 122								-	-	-
4.3.6.5 Radar Test Set AN / APM-401 TR: TO 33D7-36-35-1								-	-	-
4.3.6.6 Antenna Control Drive Test Set AN / APM-402 TR: TO 33D7-47-55-1	*							-	-	-
4.3.6.7 Air Pressure Warning Alarm System SDU-34	*							-	-	-

E-3 RADAR TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: TO 1E-3A-2-1-1										
4.3.6.8 D-1000 Ion Pump Power Supply TR: TO 1E-3A-43-2-93-3 / TO 1E-3A-43-2-93-3-13 / TO 1E-3A-43-2-93-3-26								-	-	-
4.3.6.9 Monorail Assembly TR: TO 1E-3A-43-2-93-3								-	-	-
4.3.6.10 SF-6 Flow Meter								-	-	-
4.3.6.11 Break Out Box								-	-	-
4.3.6.12 Boroscope								-	-	-
4.3.6.13 SF-6 Detection Camera								-	-	-
4.3.6.14 WATTS Test Box TR: TO 1E-3A-2-93-4								-	-	-
4.3.6.15 SF-6 Ground Cart Operation TR: TO 1E-3A-43-2-93-3	*							-	-	-
4.3.6.16 SF-6 Transfer Pump	*							-	-	-
4.3.6.17 Vacuum Pump TR: TO 1E-3A-43-2-93-3	*							-	-	-
4.3.6.18 Nitrogen Cart TR: TO 12P2-APY-1-2-1 / TO 35D3-6-33-13	*							-	-	-
4.3.6.19 FC-77 Servicing Cart TR: TO 1E-3A-43-2-93-3		*						-	-	-
4.3.6.20 FC-77 Top-Off Bottle TR: TO 1E-3A-43-2-93-3	*							-	-	-
4.4 Advanced Radar Wiring TR: TO 00-25-234 / TO 12P2-2APY1-2-1 / TO 1E-3A-2-110-93-1 / TO 1E-3A-43-2-110-93-2 / TO 1E-3A-43-2-110-93-3										
4.4.1 Wiring diagrams								-	-	-
4.4.2 Wire list								-	-	-
4.4.3 Perform Wire Wrapping								-	-	-
4.4.4 Replace Pickle Forks								-	-	-
4.4.5 Replace Aircraft Wiring Harnesses										
4.4.5.1 Replace/Repair Radar Set Harnesses								-	-	-
4.4.5.2 Replace/Repair IFF System Harnesses								-	-	-
4.5 INTERMEDIATE MAINTENANCE (E-3)										
4.5.1 Receiver-Transmitter TR: TO 1E-3A-43-2-93-5 / TO 12P4-2A-122										
4.5.1.1 Bench Check								-	-	-
4.5.1.2 Isolate and Repair LRU								-	-	-
4.5.2 Antenna Control										
4.5.2.1 Bench Check								-	-	-
4.5.2.2 Isolate and Repair LRU								-	-	-
4.5.3 Antenna Drive										
4.5.3.1 Bench Check								-	-	-
4.5.3.2 Isolate and Repair LRU								-	-	-

**E-3 RADAR TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.5.4 Antenna Control										
4.5.4.1 Bench Check								-	-	-
4.5.4.2 Isolate and Repair LRU								-	-	-
4.5.5 Analog Receiver Test Set (RIB)										
4.5.5.1 Bench Check								-	-	-
4.5.5.2 Isolate and Repair Test Set								-	-	-
4.5.6 Radar Test Set AN / APM-401										
4.5.6.1 Bench Check								-	-	-
4.5.6.2 Isolate and Repair Test Set								-	-	-
4.5.7 Antenna Control Drive Test AN / APM-402										
4.5.7.1 Bench Check								-	-	-
4.5.7.2 Isolate and Repair Test Set								-	-	-
4.5.8 D-1000 Ion Pump Power Supply										
4.5.8.1 Bench Check								-	-	-
4.5.8.2 Isolate and Repair Test Set								-	-	-
4.5.9 Automatic Transmitter Test Set (ATTS) AN / APM-478 TR: TO 33D7-29-85-1 / TO 33D7-44-329-2 / 12										
4.5.9.1 Environmental Controls / Indicators								-	-	-
4.5.9.2 Liquid Cooling Sys Operation and Monitoring								-	-	-
4.5.9.3 Emergency Shutdown								-	-	-
4.5.9.4 Shutoff Valves								-	-	-
4.5.9.5 Cold Weather Preparation and Operation								-	-	-
4.5.10 Sulfur Hexafluoride (SF 6)										
4.5.10.1 Bottle Replacement (230lb Bottle)								-	-	-
4.5.11 Environmental Cooling										
4.5.11.1 Control Panel Operation								-	-	-
4.5.12 Operate Transmitter HMU AN / FPM 40 Using ATTS AN / APM 478										
4.5.12.1 Turn On								-	-	-
4.5.12.2 Shutdown								-	-	-
4.5.12.3 Emergency Shutdown TR: TO 33D7.44.329.2 / AFOSH 127.45								-	-	-
4.5.12.4 RDC Simulator Panel								-	-	-
4.5.12.5 Operational Self Test								-	-	-
4.5.12.6 Interface Check								-	-	-
4.5.12.7 Monitor Test								-	-	-
4.5.12.8 Harmonization								-	-	-
4.5.12.9 Normalization								-	-	-
4.5.12.10 KPA Burn In (Automatic) and Documentation								-	-	-
4.5.12.11 KPA Burn In (Manual) and Documentation								-	-	-

**E-3 RADAR TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
4.5.12.12 LRU Retest and Documentation TR: TO 33D7.44.329.12									-	-	-
4.5.13 Perform Power Off Maintenance TR: TO 33D7-44-329-2											
4.5.13.1 Lock-out and Tag-out Procedures									-	-	-

E-3 EW COMPUTERS TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
<b>Attachment 5 E-3 EW COMPUTERS Training Requirements</b>											
NOTE 1: The apprentice course, J3ABR2A933XXXXX, Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.											
NOTE 2: All course requirements are trained in the 3-level resident course during wartime.											
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.											
NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).											
NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an “*” does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.											
NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908											
<b>5.1 E-3 ON-EQUIPMENT MAINTENANCE</b>											
<b>5.1.1 GENERAL ORGANIZATIONAL MAINTENANCE (E-3 specific)</b>											
5.1.1.1	Apply external power	*							-	-	-
5.1.1.2	Apply external air conditioning	*							-	-	-
5.1.1.3	SDU cooling air monitor alarm operation	*							-	-	-
5.1.1.4	Aircraft safe for maintenance	*							-	-	-
5.1.1.5	Use Keyboard Debugger (KBD) Software	*							-	-	-
5.1.1.6	GPS Integrated Navigation System (GINS) Turn On/Off	*							-	-	-
5.1.1.7	Perform Preflight Inspection	*							-	-	-
5.1.1.8	Pre Depot/Post Depot Inspection								-	-	-
<b>5.1.1.9 Support of Interfacing Systems</b>											
5.1.1.9.1	Radar and Identify Friend or Foe (IFF)	*							-	-	-
5.1.1.9.2	Tactical Digital Information Link A (TADIL-A/Link 11)	*							-	-	-
5.1.1.9.3	Frequency Management								-	-	-
5.1.1.9.4	Joint Tactical Information Distribution System (JTIDS)/Link 16	*							-	-	-
<b>5.1.2 HAVE SIREN INFRARED SELF-DEFENSE SYSTEM (QRC 81-01)</b>											
5.1.2.1	Theory of operation								-	-	-
5.1.2.2	Perform operation check	*							-	-	-
5.1.2.3	Isolate Malfunctions	*							-	-	-
5.1.2.4	Perform Advanced Troubleshooting		*						-	-	-
5.1.2.5	Use MTM for system alignment	*							-	-	-
<b>5.1.3 ELECTRONIC SUPPORT MEASURES (AN/AYR-2)</b>											
5.1.3.1	Theory of operation								-	-	-
5.1.3.2	Perform operation check	*							-	-	-
5.1.3.3	Load System EEPROMS	*							-	-	-
5.1.3.4	Perform ECM System Live Operation	*							-	-	-
5.1.3.5	Inspect antenna RF Processor (ARFP) radome		*						-	-	-
5.1.3.6	Isolate Malfunctions	*							-	-	-

E-3 EW COMPUTERS TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.1.3.7 Perform Advanced Troubleshooting		*						-	-	-
5.2 CORE COMPUTER VERSION 2 ENHANCED (CCE) MAINTENANCE										
5.2.1 ORGANIZATIONAL MAINTENANCE										
5.2.1.1 Power On/Off Computer and Display System	*							-	-	-
5.2.1.2 Perform Data Destruct Procedures	*							-	-	-
5.2.1.3 Perform Preflight	*							-	-	-
5.2.2 SYSTEM PROGRAMS										
5.2.2.1 AIRBORNE OPERATIONAL COMPUTER PROGRAM (AOCP)										
5.2.2.1.1 Load and operate	*							-	-	-
5.2.2.1.2 Interpret results	*							-	-	-
5.2.2.2 ELECTRONIC LOAD FUNCTION (ELF)										
5.2.2.2.1 Load and operate	*							-	-	-
5.2.2.3 MAINTENANCE COMPUTER PROGRAM (MCP)										
5.2.2.3.1 Load and operate data processor diagnostic software	*							-	-	-
5.2.2.3.2 Interpret results	*							-	-	-
5.2.2.3.3 Load and operate Control Power Supply (CPS) diagnostic software	*							-	-	-
5.2.2.3.4 Interpret results	*							-	-	-
5.2.3 SYSTEM HARDWARE										
5.2.3.1 DIGITAL COMPUTER RACK (DCR)										
5.2.3.1.1 Theory of operation								-	-	-
5.2.3.1.2 Isolate Malfunctions	*							-	-	-
5.2.3.1.3 Perform Advanced Troubleshooting		*						-	-	-
5.2.3.2 COMPUTER ARITHMETIC UNIT (CAU)										
5.2.3.2.1 Theory of operation								-	-	-
5.2.3.2.2 Perform operation check	*							-	-	-
5.2.3.2.3 Isolate Malfunctions	*							-	-	-
5.2.3.2.4 Perform Advanced Troubleshooting		*						-	-	-
5.2.3.3 MONOLITHIC MEMORY UNIT (MMU)										
5.2.3.3.1 Theory of operation								-	-	-
5.2.3.3.2 Perform operation check	*							-	-	-
5.2.3.3.3 Isolate Malfunctions	*							-	-	-
5.2.3.3.4 Perform Advanced Troubleshooting		*						-	-	-
5.2.3.4 BUBBLE MEMORY UNIT (BMU)										
5.2.3.4.1 Theory of operation								-	-	-
5.2.3.4.2 Perform operation check	*							-	-	-
5.2.3.4.3 Isolate Malfunctions	*							-	-	-
5.2.3.4.4 Perform Advanced Troubleshooting		*						-	-	-
5.2.3.5 DIGITAL MULTIPLEXER (DMX)										

E-3 EW COMPUTERS TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.2.3.5.1 Theory of operation								-	-	-
5.2.3.5.2 Perform operation check	*							-	-	-
5.2.3.5.3 Isolate Malfunctions	*							-	-	-
5.2.3.5.4 Perform Advanced Troubleshooting		*						-	-	-
<b>5.2.3.6 COMPUTER CONTROLLER (CC)</b>										
5.2.3.6.1 Theory of operation								-	-	-
5.2.3.6.2 Perform operation check	*							-	-	-
5.2.3.6.3 Isolate Malfunctions	*							-	-	-
5.2.3.6.4 Perform Advanced Troubleshooting		*						-	-	-
<b>5.2.3.7 OPERATOR COMPUTER CONTROL (OCC)</b>										
5.2.3.7.1 Theory of operation								-	-	-
5.2.3.7.2 Perform operation check	*							-	-	-
5.2.3.7.3 Isolate Malfunctions	*							-	-	-
5.2.3.7.4 Perform Advanced Troubleshooting		*						-	-	-
<b>5.2.3.8 DATA DISPLAY INDICATOR (DDI)</b>										
5.2.3.8.1 Theory of operation								-	-	-
5.2.3.8.2 Perform operation check	*							-	-	-
5.2.3.8.3 Isolate Malfunctions	*							-	-	-
5.2.3.8.4 Perform Advanced Troubleshooting		*						-	-	-
<b>5.2.3.9 ELECTRONIC TYPEWRITER KEYBOARD (EKT)</b>										
5.2.3.9.1 Perform operation check	*							-	-	-
5.2.3.9.2 Isolate Malfunctions	*							-	-	-
<b>5.2.3.10 CONTROL POWER SUPPLY (CPS)</b>										
5.2.3.10.1 Theory of operation								-	-	-
5.2.3.10.2 Perform operation check	*							-	-	-
5.2.3.10.3 Isolate Malfunctions	*							-	-	-
5.2.3.10.4 Perform Advanced Troubleshooting		*						-	-	-
<b>5.2.3.11 ON-BOARD TEST MONITOR AND MAINTENANCE (OBTM&amp;M)</b>										
5.2.3.11.1 Theory of operation								-	-	-
5.2.3.11.2 Perform operation check	*							-	-	-
5.2.3.11.3 Isolate Malfunctions	*							-	-	-
5.2.3.11.4 Perform Advanced Troubleshooting		*						-	-	-
<b>5.2.3.12 PRINTER READER GROUP (PERIPHERAL RACK # 2)</b>										
5.2.3.12.1 Theory of operation								-	-	-
5.2.3.12.2 Isolate Malfunctions	*							-	-	-
5.2.3.12.3 Perform Advanced Troubleshooting		*						-	-	-
<b>5.2.3.13 HARD DISK SUBSYSTEM (HDS)</b>										
5.2.3.13.1 Theory of operation								-	-	-
5.2.3.13.2 Perform operation check	*							-	-	-
5.2.3.13.3 Isolate Malfunctions	*							-	-	-
5.2.3.13.4 Perform Advanced Troubleshooting		*						-	-	-
<b>5.2.3.14 LINE PRINTER (LP)</b>										

E-3 EW COMPUTERS TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.2.3.14.1 Theory of operation								-	-	-
5.2.3.15 DATA MATRIX LINE PRINTER										
5.2.3.15.1 Perform operation check	*							-	-	-
5.2.3.15.2 Isolate Malfunctions	*							-	-	-
5.2.3.16 ECI LINE PRINTER										
5.2.3.16.1 Perform operation check	*							-	-	-
5.2.3.16.2 Isolate Malfunctions	*							-	-	-
5.2.3.17 ELECTRONIC COMMAND SIGNAL PROCESSOR (ECSP)										
5.2.3.17.1 Theory of operation								-	-	-
5.2.3.17.2 Isolate Malfunctions	*							-	-	-
5.2.3.17.3 Perform Advanced Troubleshooting	*							-	-	-
5.2.3.17.4 Perform In-progress Inspection		*						-	-	-
5.2.3.18 DISPLAY PROCESSOR (DP)										
5.2.3.18.1 Theory of operation								-	-	-
5.2.3.18.2 Perform operation check	*							-	-	-
5.2.3.18.3 Isolate Malfunctions	*							-	-	-
5.2.3.18.4 Perform Advanced Troubleshooting		*						-	-	-
5.2.3.19 REFRESH CHANNEL (RC)										
5.2.3.19.1 Theory of operation								-	-	-
5.2.3.19.2 Perform operation check	*							-	-	-
5.2.3.19.3 Isolate Malfunctions	*							-	-	-
5.2.3.19.4 Perform Advanced Troubleshooting		*						-	-	-
5.2.3.20 SITUATION DISPLAY CONSOLE (SDC)										
5.2.3.20.1 Theory of operation								-	-	-
5.2.3.20.2 Isolate Malfunctions	*							-	-	-
5.2.3.20.3 Perform Advanced Troubleshooting		*						-	-	-
5.2.3.20.4 Perform In-progress Inspection		*						-	-	-
5.2.3.21 COMMON LARGE AREA DISPLAY SET (CLADS)										
5.2.3.21.1 Perform operation check	*							-	-	-
5.2.3.21.2 Isolate Malfunctions	*							-	-	-
5.2.3.22 CATEGORY FEATURE SELECT PANEL										
5.2.3.22.1 Perform operation check	*							-	-	-
5.2.3.22.2 Isolate Malfunctions	*							-	-	-
5.2.3.23 FUNCTION SELECT PANEL										
5.2.3.23.1 Perform operation check	*							-	-	-
5.2.3.23.2 Isolate Malfunctions	*							-	-	-
5.2.3.24 ALARM/DISPLAY PANEL										
5.2.3.24.1 Perform operation check	*							-	-	-
5.2.3.24.2 Isolate Malfunctions	*							-	-	-
5.2.3.25 ALPHANUMERIC ENTRY DEVICE										
5.2.3.25.1 Perform operation check	*							-	-	-
5.2.3.25.2 Isolate Malfunctions	*							-	-	-

E-3 EW COMPUTERS TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.2.3.26 TRACKBALL										
5.2.3.26.1 Perform operation check	*							-	-	-
5.2.3.26.2 Isolate Malfunctions	*							-	-	-
5.2.3.27 A10 LOW VOLTAGE POWER SUPPLY										
5.2.3.27.1 Perform operation check	*							-	-	-
5.2.3.27.2 Isolate Malfunctions	*							-	-	-
5.2.3.28 A12 CIRCUIT CARDS										
5.2.3.28.1 Perform operation check	*							-	-	-
5.2.3.28.2 Isolate Malfunctions	*							-	-	-
5.3 E-3 OFF-EQUIPMENT MAINTENANCE										
5.3.1 Repair ESM LRUs								-	-	-
5.3.2 RADIOMETER TEST SET										
5.3.2.1 Operate								-	-	-
5.3.2.2 Calibrate								-	-	-
5.3.2.3 Isolate Malfunctions								-	-	-
5.3.3 PURGE/FILL TEST SET										
5.3.3.1 Operate								-	-	-
5.3.4 RADIOMETER CALIBRATOR TEST SET										
5.3.4.1 Operate								-	-	-
5.3.4.2 Calibrate								-	-	-
5.3.4.3 Isolate Malfunctions								-	-	-
5.3.5 QRC 81-01 MULTIFUNCTION TEST METER (MTM)										
5.3.5.1 Performance Verification Test								-	-	-
5.3.5.2 Alignment of R and R								-	-	-
5.3.5.3 Calibrate the MTM								-	-	-
5.3.5.4 J- Interface Unit (IYU)								-	-	-
5.3.5.5 CP- Computer Processor								-	-	-
5.3.5.6 SA- Switch Filter (IFS)								-	-	-
5.3.5.7 PP- Storage Power Supply (Battery Box)								-	-	-
5.3.5.8 MX- Radio Frequency Power Divider (LODU)								-	-	-
5.3.5.9 MM- Memory Unit (AFROM)								-	-	-
5.3.5.10 PP- Power Supply								-	-	-
5.3.5.11 O- Frequency Synthesizer								-	-	-
5.3.5.12 Interface Processor (IFP)								-	-	-
5.3.6 REMOVE, INSTALL AND REPAIR SRUs SUBASSEMBLIES AND COMPONENTS										
5.3.6.1 J- Interface Unit (IYU)								-	-	-
5.3.6.2 CP- Computer Processor								-	-	-
5.3.6.3 SA- Switch Filter (IFS)								-	-	-
5.3.6.4 PP- Storage Power Supply (Battery Box)								-	-	-
5.3.6.5 MX- Radio Frequency Power Divider								-	-	-

E-3 EW COMPUTERS TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
(LODU)										
5.3.6.6 PP- Power Supply								-	-	-
5.3.6.7 CU- Interface Processor (IFP)								-	-	-
5.3.6.8 O- Frequency Synthesizer								-	-	-
5.3.6.9 CU- Interface Processor (IFP)								-	-	-
5.3.6.10 PERFORM VISUAL INSPECTION OF ESM SRUs								-	-	-
5.3.7 LINE PRINTER INTERMEDIATE MAINTENANCE										
5.3.7.1 LINE PRINTER (Miltop Impact)										
5.3.7.1.1 Perform alignments on line printer								-	-	-
5.3.7.1.2 Disassemble and assemble line printer								-	-	-
5.3.7.1.3 Isolate Malfunctions								-	-	-
5.3.7.2 LINE PRINTER RP-/A (ECI Thermal)										
5.3.7.2.1 Perform alignments on line printer								-	-	-
5.3.7.2.2 Disassemble and assemble line printer								-	-	-
5.3.7.2.3 Isolate Malfunctions								-	-	-
5.3.7.3 INTERMEDIATE MAINTENANCE ON DDI										
5.3.7.3.1 Perform alignments								-	-	-
5.3.7.3.2 Disassemble and assemble								-	-	-
5.3.7.3.3 Isolate Malfunctions								-	-	-
5.3.7.3.4 Perform In-progress Inspection								-	-	-
5.3.8 INTERMEDIATE MAINTENANCE ON SDC SUBASSEMBLIES AND/OR COMPONENTS										
5.3.8.1 Repair Category Feature Select panel								-	-	-
5.3.8.2 Repair Function Select panel								-	-	-
5.3.8.3 Repair Alarm/Display (AD) panel								-	-	-
5.3.8.4 Repair Alphanumeric Entry Device (AED) panel								-	-	-
5.3.8.5 Repair Trackball assembly								-	-	-
5.3.8.6 Repair Electronic Typewriter Keyboard (ETK)								-	-	-
5.3.8.7 Repair Operator Computer Control (OCC)								-	-	-
5.3.9 INTERMEDIATE MAINTENANCE ON ECSP SUBASSEMBLIES AND/OR COMPONENTS										
5.3.9.1 Repair EMI Filter								-	-	-
5.3.9.2 Repair Refresh Channel								-	-	-
5.3.9.3 Repair DP								-	-	-
5.3.10 INTERMEDIATE MAINTENANCE ON DCR SUBASSEMBLIES AND/OR COMPONENTS										
5.3.10.1 Repair DMX								-	-	-
5.3.10.2 Repair CAU								-	-	-

E-3 EW COMPUTERS TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
5.3.10.3 Repair MMU									-	-	-
5.3.10.4 Repair CC									-	-	-
5.3.10.5 Repair BMU									-	-	-
5.3.10.6 Repair CPS									-	-	-
5.3.10.7 Repair CPS Control Panel									-	-	-
5.3.10.8 Repair SDU									-	-	-
5.3.11 Data Display Training Set (DDTS) TR: TO 1E-3A-43-2-93 Series TO											
5.3.11.1 Recognize and Identify DDTS Equipment TR: TO 33D7-17-60-1									-	-	-
5.3.11.2 Initialization of DDTS TR: TO 33A1-3-426-3 / TO 12P4-1A- 122									-	-	-
5.3.11.3 Shutdown of DDTS TR: TO 33D7-36-35-1									-	-	-
5.3.11.4 Emergency Shutdown of DDTS TR: TO 33D7-47-55-1									-	-	-
5.3.12 SPECIAL PURPOSE SUPPORT EQUIPMENT OPERATION											
5.3.12.1 TV PATTERN GENERATOR (TVPG)									-	-	-
5.3.12.2 ECI LINE PRINTER TEST SET									-	-	-

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
<b>Attachment 6 E-8 Training Requirements</b>										
NOTE 1: The apprentice course, J3ABR2A933XXXXX, Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.										
NOTE 2: All course requirements are trained in the 3-level resident course during wartime.										
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.										
NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).										
NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an “*” does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.										
NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908										
6.1 GENERAL ORGANIZATIONAL MAINTENANCE (E-8) TR: PHOENIX / TO 1E-8C-12										
6.1.1 Use PHOENIX	*							-	-	-
6.1.2 Apply External Power TR: TO 1E-8C-12 / TO 0500 Series	*							-	-	-
6.1.3 Apply External Cooling TR: TO 1E-8C-12 / TO 2100 Series	*							-	-	-
6.1.4 Joint Surveillance Target Attack Radar System (JSTARS) Surveillance System TR: TO 1E-8C-12 / TO 9900 Series										
6.1.4.1 JSTARS Surveillance System								-	-	-
6.1.4.2 Data Processing Subsystem										
6.1.4.2.1 Central Computer (CC)										
6.1.4.2.1.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.1.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.1.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.1.4 Remove and Replace	*							-	-	-
6.1.4.2.1.5 Remove and Replace SRU's	*							-	-	-
6.1.4.2.1.6 Operational Checkout	*							-	-	-
6.1.4.2.1.7 Advanced Troubleshooting		*						-	-	-
6.1.4.2.2 Central Computer-Mass Storage Device (CCMSD)										
6.1.4.2.2.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.2.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.2.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.2.4 Remove and Replace	*							-	-	-
6.1.4.2.2.5 Operational Checkout	*							-	-	-
6.1.4.2.2.6 Advanced Troubleshooting		*						-	-	-
6.1.4.2.3 Removable Memory Module (RMM)										
6.1.4.2.3.1 Locate LRU	*							-	-	-
6.1.4.2.3.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.3.3 Isolate and correct Malfunction	*							-	-	-

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.1.4.2.3.4 Remove and Replace	*							-	-	-
6.1.4.2.3.5 Operational Checkout	*							-	-	-
6.1.4.2.3.6 Advanced Troubleshooting								-	-	-
6.1.4.2.4 Central Computer Virtual Memory Europa (CCVME)										
6.1.4.2.4.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.4.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.4.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.4.4 Remove and Replace	*							-	-	-
6.1.4.2.4.5 Remove and Replace SRU's	*							-	-	-
6.1.4.2.4.6 Operational Checkout	*							-	-	-
6.1.4.2.4.7 Advanced Troubleshooting		*						-	-	-
6.1.4.2.5 LAN HUB (GIGASWITCH)										
6.1.4.2.5.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.5.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.5.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.5.4 Remove and Replace	*							-	-	-
6.1.4.2.5.5 Remove and Replace SRU's	*							-	-	-
6.1.4.2.5.6 Operational Checkout	*							-	-	-
6.1.4.2.5.7 Advanced Troubleshooting		*						-	-	-
6.1.4.2.6 LAN Bridge										
6.1.4.2.6.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.6.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.6.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.6.4 Remove and Replace	*							-	-	-
6.1.4.2.6.5 Remove and Replace SRU's	*							-	-	-
6.1.4.2.6.6 Operational Checkout	*							-	-	-
6.1.4.2.6.7 Advanced Troubleshooting		*						-	-	-
6.1.4.2.7 Serial Data hub										
6.1.4.2.7.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.7.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.7.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.7.4 Remove and Replace	*							-	-	-
6.1.4.2.7.5 Remove and Replace SRU's	*							-	-	-
6.1.4.2.7.6 Operational Checkout	*							-	-	-
6.1.4.2.7.7 Advanced Troubleshooting		*						-	-	-
6.1.4.2.8 Fiber Optic Patch Panel (Fwd/Aft)										
6.1.4.2.8.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.8.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.8.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.8.4 Remove and Replace	*							-	-	-

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.1.4.2.8.5 Remove and Replace SRU's	*							-	-	-
6.1.4.2.8.6 Operational Checkout	*							-	-	-
6.1.4.2.8.7 Advanced Troubleshooting		*						-	-	-
6.1.4.2.9 Data Interfaces (LANS/Buses)										
6.1.4.2.9.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.9.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.9.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.9.4 Remove and Replace	*							-	-	-
6.1.4.2.9.5 Remove and Replace SRU's	*							-	-	-
6.1.4.2.9.6 Operational Checkout	*							-	-	-
6.1.4.2.9.7 Advanced Troubleshooting		*						-	-	-
6.1.4.2.10 PIC Junction Box										
6.1.4.2.10.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.10.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.10.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.10.4 Remove and Replace	*							-	-	-
6.1.4.2.10.5 Remove and Replace SRU's	*							-	-	-
6.1.4.2.10.6 Operational Checkout	*							-	-	-
6.1.4.2.10.7 Advanced Troubleshooting		*						-	-	-
6.1.4.2.11 STP Junction Box										
6.1.4.2.11.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.11.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.11.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.11.4 Remove and Replace	*							-	-	-
6.1.4.2.11.5 Remove and Replace SRU's	*							-	-	-
6.1.4.2.11.6 Operational Checkout	*							-	-	-
6.1.4.2.11.7 Advanced Troubleshooting		*						-	-	-
6.1.4.2.12 SM&C Junction Box										
6.1.4.2.12.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.12.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.12.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.12.4 Remove and Replace	*							-	-	-
6.1.4.2.12.5 Remove and Replace SRU's	*							-	-	-
6.1.4.2.12.6 Operational Checkout	*							-	-	-
6.1.4.2.12.7 Advanced Troubleshooting		*						-	-	-
6.1.4.2.13 Prime Mission Equipment (PME) Control Panel										
6.1.4.2.13.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.2.13.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.13.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.13.4 Remove and Replace	*							-	-	-

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.1.4.2.13.5 Operational Checkout	*							-	-	-
6.1.4.2.13.6 Advanced Troubleshooting		*						-	-	-
6.1.4.2.14 Data Couplers										
6.1.4.2.14.1 Locate LRU	*							-	-	-
6.1.4.2.14.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.2.14.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.2.14.4 Remove and Replace	*							-	-	-
6.1.4.2.14.5 Operational Checkout	*							-	-	-
6.1.4.2.14.6 Advanced Troubleshooting		*						-	-	-
6.1.4.3 Data Display Subsystem										
6.1.4.3.1 Display Unit (DU)										
6.1.4.3.1.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.3.1.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.3.1.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.3.1.4 Remove and Replace	*							-	-	-
6.1.4.3.1.5 Remove and Replace SRU's	*							-	-	-
6.1.4.3.1.6 Operational Checkout	*							-	-	-
6.1.4.3.1.7 Advanced Troubleshooting		*						-	-	-
6.1.4.3.2 Operator Work Station Data Processor (OWS-DP)										
6.1.4.3.2.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.3.2.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.3.2.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.3.2.4 Remove and Replace	*							-	-	-
6.1.4.3.2.5 Remove and Replace SRU's	*							-	-	-
6.1.4.3.2.6 Operational Checkout	*							-	-	-
6.1.4.3.2.7 Advanced Troubleshooting		*						-	-	-
6.1.4.3.3 Operator Work Station Mass Stotage Device (OWS-MSD)										
6.1.4.3.3.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.3.3.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.3.3.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.3.3.4 Remove and Replace	*							-	-	-
6.1.4.3.3.5 Remove and Replace SRU's	*							-	-	-
6.1.4.3.3.6 Operational Checkout	*							-	-	-
6.1.4.3.3.7 Advanced Troubleshooting		*						-	-	-
6.1.4.3.4 Operator Work Station Keyboard										
6.1.4.3.4.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.3.4.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.3.4.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.3.4.4 Remove and Replace	*							-	-	-

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.1.4.3.4.5 Remove and Replace SRU's	*							-	-	-
6.1.4.3.4.6 Operational Checkout	*							-	-	-
6.1.4.3.4.7 Advanced Troubleshooting		*						-	-	-
6.1.4.3.5 Operator Work Station Removable Memory Module (RMM)										
6.1.4.3.5.1 Locate LRU	*							-	-	-
6.1.4.3.5.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.3.5.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.3.5.4 Remove and Replace	*							-	-	-
6.1.4.3.5.5 Operational Checkout	*							-	-	-
6.1.4.3.5.6 Advanced Troubleshooting		*						-	-	-
6.1.4.4 Data Recording Subsystem										
6.1.4.4.1 Laser Printer (Black & White)										
6.1.4.4.1.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.4.1.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.4.1.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.4.1.4 Remove and Replace	*							-	-	-
6.1.4.4.1.5 Remove and Replace SRU's	*							-	-	-
6.1.4.4.1.6 Operational Checkout	*							-	-	-
6.1.4.4.1.7 Advanced Troubleshooting		*						-	-	-
6.1.4.4.2 Laser Printer (Color)										
6.1.4.4.2.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.4.2.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.4.2.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.4.2.4 Remove and Replace	*							-	-	-
6.1.4.4.2.5 Remove and Replace SRU's	*							-	-	-
6.1.4.4.2.6 Operational Checkout	*							-	-	-
6.1.4.4.2.7 Advanced Troubleshooting		*						-	-	-
6.1.4.4.3 Redundant Array of Independent Disks Mass Storage Device (RAID MSD/9-Bay @ OWS#2)										
6.1.4.4.3.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.4.3.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.4.3.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.4.3.4 Remove and Replace	*							-	-	-
6.1.4.4.3.5 Remove and Replace RMMs	*							-	-	-
6.1.4.4.3.6 Operational Checkout	*							-	-	-
6.1.4.4.3.7 Advanced Troubleshooting		*						-	-	-
6.1.4.5 Radar Subsystem										
6.1.4.5.1 Radar Control Unit (RCU)										
6.1.4.5.1.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.5.1.2 Signal Flow and Functional	*							-	-	-

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
Operation										
6.1.4.5.1.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.1.4 Remove and Replace	*							-	-	-
6.1.4.5.1.5 Remove and Replace SRU's	*							-	-	-
6.1.4.5.1.6 Operational Checkout	*							-	-	-
6.1.4.5.1.7 Advanced Troubleshooting		*						-	-	-
6.1.4.5.2 Exciter (XCTR)										
6.1.4.5.2.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.5.2.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.5.2.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.2.4 Remove and Replace	*							-	-	-
6.1.4.5.2.5 Remove and Replace SRU's	*							-	-	-
6.1.4.5.2.6 Operational Checkout	*							-	-	-
6.1.4.5.2.7 Advanced Troubleshooting		*						-	-	-
6.1.4.5.3 High Powered Combiner (HPC)										
6.1.4.5.3.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.5.3.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.5.3.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.3.4 Remove and Replace	*							-	-	-
6.1.4.5.3.5 Remove and Replace SRU's	*							-	-	-
6.1.4.5.3.6 Operational Checkout	*							-	-	-
6.1.4.5.3.7 Advanced Troubleshooting		*						-	-	-
6.1.4.5.4 Transmitter (XMTR)										
6.1.4.5.4.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.5.4.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.5.4.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.4.4 Remove and Replace	*							-	-	-
6.1.4.5.4.5 Remove and Replace SRU's	*							-	-	-
6.1.4.5.4.6 Operational Checkout	*							-	-	-
6.1.4.5.4.7 Advanced Troubleshooting		*						-	-	-
6.1.4.5.5 Receiver Analog to Digital (RAD)										
6.1.4.5.5.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.5.5.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.5.5.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.5.4 Remove and Replace	*							-	-	-
6.1.4.5.5.5 Remove and Replace SRU's	*							-	-	-
6.1.4.5.5.6 Operational Checkout	*							-	-	-
6.1.4.5.5.7 Advanced Troubleshooting		*						-	-	-
6.1.4.5.6 Antenna Servo Electronics (ASE)										
6.1.4.5.6.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.5.6.2 Signal Flow and Functional Operation	*							-	-	-

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.1.4.5.6.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.6.4 Remove and Replace	*							-	-	-
6.1.4.5.6.5 Remove and Replace SRU's	*							-	-	-
6.1.4.5.6.6 Operational Checkout	*							-	-	-
6.1.4.5.6.7 Advanced Troubleshooting		*						-	-	-
6.1.4.5.7 Radar Airborne Signal Processor (RASP)										
6.1.4.5.7.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.5.7.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.5.7.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.7.4 Remove and Replace	*							-	-	-
6.1.4.5.7.5 Remove and Replace SRU's	*							-	-	-
6.1.4.5.7.6 Operational Checkout	*							-	-	-
6.1.4.5.7.7 Advanced Troubleshooting		*						-	-	-
6.1.4.5.8 Redundant Array of Independent Disks (RASP RAID)										
6.1.4.5.8.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.5.8.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.5.8.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.8.4 Remove and Replace	*							-	-	-
6.1.4.5.8.5 Remove and Replace RMMs	*							-	-	-
6.1.4.5.8.6 Operational Checkout	*							-	-	-
6.1.4.5.8.7 Perform striping procedure	*							-	-	-
6.1.4.5.8.8 Advanced Troubleshooting		*						-	-	-
6.1.4.5.9 Waveguide assemblies										
6.1.4.5.9.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.5.9.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.5.9.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.9.4 Remove and Replace	*							-	-	-
6.1.4.5.9.5 Remove and Replace SRU's (pressure window/covers)	*							-	-	-
6.1.4.5.9.6 Operational Checkout	*							-	-	-
6.1.4.5.9.7 Advanced Troubleshooting		*						-	-	-
6.1.4.5.10 Inertial Measurement Unit - Data Processor (IMU-DP)										
6.1.4.5.10.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.4.5.10.2 Signal Flow and Functional Operation	*							-	-	-
6.1.4.5.10.3 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.10.4 Remove and Replace LRUs	*							-	-	-
6.1.4.5.10.5 Operational Checkout	*							-	-	-
6.1.4.5.10.6 Advanced Troubleshooting		*						-	-	-
6.1.4.5.11 Nitrogen Storage Bottle										

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.1.4.5.11.1 Locate LRU and Gauges	*							-	-	-
6.1.4.5.11.2 Interpret Gauge Readings	*							-	-	-
6.1.4.5.11.3 Service	*							-	-	-
6.1.4.5.11.4 Remove and Replace	*							-	-	-
6.1.4.5.11.5 Remove and Replace Supply lines / Filter	*							-	-	-
6.1.4.5.11.6 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.11.7 Operational / Leak Checkout	*							-	-	-
6.1.4.5.12 Dehydrator Assembly										
6.1.4.5.12.1 Locate LRU	*							-	-	-
6.1.4.5.12.2 Evaluate Condition of Crystals	*							-	-	-
6.1.4.5.12.3 Remove and Replace	*							-	-	-
6.1.4.5.12.4 Isolate and correct Malfunction	*							-	-	-
6.1.4.5.12.5 Operational / Leak Checkout	*							-	-	-
6.1.5 Antenna Group										
6.1.5.1 Antenna										
6.1.5.1.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.1.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.1.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.1.4 Remove and Replace	*							-	-	-
6.1.5.1.5 Remove and Replace Flex Cabling	*							-	-	-
6.1.5.1.6 Operational Checkout	*							-	-	-
6.1.5.1.7 Install / Remove Cover Set	*							-	-	-
6.1.5.1.8 Surveillance Antenna Packing/Unpacking	*							-	-	-
6.1.5.1.9 Advanced Troubleshooting		*						-	-	-
6.1.5.2 RF/IF Distribution Plate Assembly										
6.1.5.2.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.2.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.2.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.2.4 Remove and Replace	*							-	-	-
6.1.5.2.5 Remove and Replace SRU's	*							-	-	-
6.1.5.2.6 Operational Checkout	*							-	-	-
6.1.5.2.7 Advanced Troubleshooting		*						-	-	-
6.1.5.3 Receiver Channel Assembly (Down Converter)										
6.1.5.3.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.3.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.3.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.3.4 Remove and Replace	*							-	-	-
6.1.5.3.5 Remove and Replace SRU's	*							-	-	-
6.1.5.3.6 Operational Checkout	*							-	-	-
6.1.5.3.7 Advanced Troubleshooting		*						-	-	-
6.1.5.4 Post Regulator Circuit Card Assembly										
6.1.5.4.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.4.2 Signal Flow and Functional Operation	*							-	-	-

**E-8 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.1.5.4.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.4.4 Remove and Replace	*							-	-	-
6.1.5.4.5 Remove and Replace SRU's	*							-	-	-
6.1.5.4.6 Operational Checkout	*							-	-	-
6.1.5.4.7 Advanced Troubleshooting		*						-	-	-
<b>6.1.5.5 Phase Shifter Interface Module (PIM)</b>										
6.1.5.5.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.5.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.5.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.5.4 Remove and Replace	*							-	-	-
6.1.5.5.5 Remove and Replace SRU's	*							-	-	-
6.1.5.5.6 Operational Checkout	*							-	-	-
6.1.5.5.7 Advanced Troubleshooting		*						-	-	-
<b>6.1.5.6 Phase Shifter Circuit Card Assembly</b>										
6.1.5.6.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.6.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.6.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.6.4 Remove and Replace	*							-	-	-
6.1.5.6.5 Remove and Replace SRU's	*							-	-	-
6.1.5.6.6 Operational Checkout	*							-	-	-
6.1.5.6.7 Advanced Troubleshooting		*						-	-	-
<b>6.1.5.7 Phase Shifter Delay Lines</b>										
6.1.5.7.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.7.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.7.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.7.4 Remove and Replace	*							-	-	-
6.1.5.7.5 Remove and Replace SRU's	*							-	-	-
6.1.5.7.6 Operational Checkout	*							-	-	-
6.1.5.7.7 Advanced Troubleshooting		*						-	-	-
<b>6.1.5.8 Circulator Assembly</b>										
6.1.5.8.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.8.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.8.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.8.4 Remove and Replace	*							-	-	-
6.1.5.8.5 Remove and Replace SRU's	*							-	-	-
6.1.5.8.6 Operational Checkout	*							-	-	-
6.1.5.8.7 Advanced Troubleshooting		*						-	-	-
<b>6.1.5.9 RF Rotary Joint Assembly</b>										
6.1.5.9.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.9.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.9.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.9.4 Remove and Replace	*							-	-	-
6.1.5.9.5 Remove and Replace SRU's	*							-	-	-
6.1.5.9.6 Operational Checkout	*							-	-	-
6.1.5.9.7 Advanced Troubleshooting		*						-	-	-

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.1.5.10 Waveguide Switch										
6.1.5.10.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.10.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.10.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.10.4 Remove and Replace	*							-	-	-
6.1.5.10.5 Remove and Replace SRU's	*							-	-	-
6.1.5.10.6 Operational Checkout	*							-	-	-
6.1.5.10.7 Advanced Troubleshooting		*						-	-	-
6.1.5.11 Waveguide Assemblies										
6.1.5.11.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.11.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.11.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.11.4 Remove and Replace	*							-	-	-
6.1.5.11.5 Remove and Replace SRU's	*							-	-	-
6.1.5.11.6 Operational Checkout	*							-	-	-
6.1.5.11.7 Advanced Troubleshooting		*						-	-	-
6.1.5.12 Antenna Interface Module Control Processor (CP/AIM)										
6.1.5.12.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.12.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.12.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.12.4 Remove and Replace	*							-	-	-
6.1.5.12.5 Remove and Replace SRU's	*							-	-	-
6.1.5.12.6 Operational Checkout	*							-	-	-
6.1.5.12.7 Advanced Troubleshooting		*						-	-	-
6.1.5.13 Inertial Measurement Unit - Electronics Assembly/Sensor Assembly (IMU-EA/SA)										
6.1.5.13.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.13.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.13.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.13.4 Remove and Replace	*							-	-	-
6.1.5.13.5 Operational Checkout	*							-	-	-
6.1.5.13.6 Advanced Troubleshooting		*						-	-	-
6.1.5.14 Encoder Assembly										
6.1.5.14.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.14.2 Signal Flow and Functional Operation	*							-	-	-
6.1.5.14.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.14.4 Remove and Replace	*							-	-	-
6.1.5.14.5 Perform Alignment Procedure	*							-	-	-
6.1.5.14.6 Operational Checkout	*							-	-	-
6.1.5.14.7 Advanced Troubleshooting		*						-	-	-
6.1.5.15 Rotary Electromechanical Actuator Assembly (B1, B2)										
6.1.5.15.1 Locate LRU and Circuit Breakers	*							-	-	-
6.1.5.15.2 Signal Flow and Functional Operation	*							-	-	-

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.1.5.15.3 Isolate and correct Malfunction	*							-	-	-
6.1.5.15.4 Remove and Replace	*							-	-	-
6.1.5.15.5 Remove and Replace SRU's	*							-	-	-
6.1.5.15.6 Operational Checkout	*							-	-	-
6.1.5.15.7 Advanced Troubleshooting		*						-	-	-
6.1.5.16 Radome & Fairings										
6.1.5.16.1 Radome										
6.1.5.16.1.1 Raise Aircraft Struts	*							-	-	-
6.1.5.16.1.2 Radome In-Progress Inspection (IPI)		*						-	-	-
6.1.5.16.1.3 Open and Close Radome (Electrically)	*							-	-	-
6.1.5.16.1.4 Open and Close Radome (Manually)	*							-	-	-
6.1.5.16.1.5 Remove and Replace	*							-	-	-
6.1.5.16.1.6 Forward/Aft Radome Manual Drive Flexible Shaft	*							-	-	-
6.1.5.16.1.7 Forward/Aft Radome Motor Driven Flexible Shaft	*							-	-	-
6.1.5.16.1.8 Remove and Replace Flexible Drive Motor	*							-	-	-
6.1.5.16.1.9 Operational Checkout	*							-	-	-
6.1.5.16.1.10 Advanced Troubleshooting		*						-	-	-
6.1.5.16.2 Fairings										
6.1.5.16.2.1 Open/Close Forward Fairing	*							-	-	-
6.1.5.16.2.2 Open/Close Aft Fairing	*							-	-	-
6.1.5.16.2.3 Remove and Replace Aft Fairing	*							-	-	-
6.1.6 Operate Surveillance System										
6.1.6.1 Initialize & Shutdown Systems										
6.1.6.1.1 Data Processing Subsystem	*							-	-	-
6.1.6.1.2 Data Display Subsystem	*							-	-	-
6.1.6.1.3 Radar Subsystem	*							-	-	-
6.1.6.2 Initiate Testing and Interpret Results										
6.1.6.2.1 Operational Readiness Test (ORT)	*							-	-	-
6.1.6.2.2 On-Line Testing (Signal Path Testing-SPT)	*							-	-	-
6.1.6.2.3 On-Line Testing (Performance Monitoring Background testing-PM Back)	*							-	-	-
6.1.6.2.4 Diagnostics (RSE / RSG / RCU / RASP)	*							-	-	-
6.1.6.2.5 Diagnostics (CC / OWS-DP)	*							-	-	-
6.1.6.2.6 Advanced Troubleshooting		*						-	-	-
6.1.6.3 Monitor & Control System Operation										
6.1.6.3.1 RCU Monitor	*							-	-	-
6.1.6.3.2 PM Background Monitor	*							-	-	-
6.1.6.3.3 OCO Task Monitor	*							-	-	-

E-8 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.1.6.3.4 Configure System for Use	*							-	-	-
6.1.6.3.5 Advanced Troubleshooting		*						-	-	-
6.1.6.4 Radar Service Requests (RSRs)										
6.1.6.4.1 Radar Reference Coverage Area (RRCA)	*							-	-	-
6.1.6.4.2 Ground Reference Coverage Area (GRCA)	*							-	-	-
6.1.6.4.3 Sector Search (SS)	*							-	-	-
6.1.6.4.4 Attack Control / Attack Planning (AC / AP)	*							-	-	-
6.1.6.4.5 Antenna Pattern	*							-	-	-
6.1.6.4.6 Synthetic Aperature Radar (SAR)	*							-	-	-
6.1.6.4.7 Advanced Troubleshooting		*						-	-	-
6.1.6.5 Use Special Purpose Support Equipment										
6.1.6.5.1 Antenna Handling Unit								-	-	-
6.1.6.5.2 Antenna Lifting Beam								-	-	-
6.1.6.5.3 Antenna Stanchion								-	-	-
6.1.6.5.4 Antenna Array Cover Set	*							-	-	-
6.1.6.5.5 Monorail and Handling Sling	*							-	-	-
6.1.6.5.6 Nitrogen Cart	*							-	-	-
6.1.6.5.7 Air Conditioning Equipment (ACE) Cart	*							-	-	-
6.1.6.5.8 Trielectron	*							-	-	-
6.1.6.5.9 Accomplish Routine Maintenance on Support Equipment	*							-	-	-
6.2 ORGANIZATIONAL MAINTENANCE (JSTARS) SURVEILLANCE SYSTEM (E-8)										
6.2.1 Replace Aircraft Wiring Harnesses										
6.2.1.1 Data Processing Subsystem								-	-	-
6.2.1.2 Data Display Subsystem								-	-	-
6.2.1.3 Radar Subsystem								-	-	-
6.2.2 Memory Load and Verify / Declassification Procedures										
6.2.2.1 Operation Of Memory Load / Verify (MLV) Utility										
6.2.2.1.1 Radar Sensor Embedded (RSE) MLV Utility	*							-	-	-
6.2.2.1.2 Radar Control Unit (RCU) MLV Utility	*							-	-	-
6.2.2.1.3 RASP MLV	*							-	-	-
6.2.3 Declassification Procedures										
6.2.3.1 RSE OPS-113a	*							-	-	-
6.2.3.2 RCU OPS-114a	*							-	-	-
6.2.3.3 RASP OPS-199a	*							-	-	-
6.2.3.4 General Equipment OPS-118a	*							-	-	-

RC-135 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
<b>Attachment 5 RC-135 Training Requirements</b>										
NOTE 1: The apprentice course, J3ABR2A933XXXXX, Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.										
NOTE 2: All course requirements are trained in the 3-level resident course during wartime.										
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.										
NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).										
NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an "*" does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.										
NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908										
7.1 CORE SYSTEMS TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.1.1 RC-135 System Familiarization TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.1.1.1 Rack Locations								-	-	-
7.1.1.2 Crew Positions								-	-	-
7.1.1.3 Mission System Power-up	*							-	-	-
7.1.1.4 Apply External Power	*							-	-	-
7.1.1.5 Ensure Aircraft Is Safe For Maintenance	*							-	-	-
7.1.1.6 Apply External Cooling	*							-	-	-
7.1.2 KVM System TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.1.2.1 Theory of Operation								-	-	-
7.1.2.2 Operational Checkout	*							-	-	-
7.1.2.3 Locate installed LRUs and C/Bs	*							-	-	-
7.1.2.4 Isolate and Correct Malfunctions	*							-	-	-
7.1.2.5 Advanced Troubleshooting		*						-	-	-
7.1.3 Digital Data Storage TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.1.3.1 Theory of Operation								-	-	-
7.1.3.2 Operational Checkout	*							-	-	-
7.1.3.3 Locate installed LRUs and C/Bs	*							-	-	-
7.1.3.4 Isolate and Correct Malfunctions	*							-	-	-
7.1.3.5 Advanced Troubleshooting		*						-	-	-
7.1.4 Digital Data Distribution TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.1.4.1 Theory of Operation								-	-	-
7.1.4.2 Operational Checkout	*							-	-	-
7.1.4.3 Locate installed LRUs and C/Bs	*							-	-	-
7.1.4.4 Isolate and Correct Malfunctions	*							-	-	-
7.1.4.5 Advanced Troubleshooting		*						-	-	-

RC-135 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.1.5 Operator Work Station (OWS) TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)- 0925-SERIES										
7.1.5.1 Theory of Operation								-	-	-
7.1.5.2 Operational Checkout	*							-	-	-
7.1.5.3 Locate installed LRUs and C/Bs	*							-	-	-
7.1.5.4 Isolate and Correct Malfunctions	*							-	-	-
7.1.5.5 Advanced Troubleshooting		*						-	-	-
7.1.6 Maintenance Test Functions TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.1.6.1 Theory of Operation								-	-	-
7.1.6.2 Operational Checkout	*							-	-	-
7.1.6.3 Locate installed LRUs and C/Bs	*							-	-	-
7.1.6.4 Perform Test Equipment Operations	*							-	-	-
7.1.6.5 Isolate and Correct Malfunctions	*							-	-	-
7.1.6.6 Advanced Troubleshooting		*						-	-	-
7.2 BASIC MISSION SYSTEMS TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.2.1 Receiver Systems TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.2.1.1 Theory of Operation								-	-	-
7.2.1.2 Operational Checkout	*							-	-	-
7.2.1.3 Locate installed LRUs and C/Bs	*							-	-	-
7.2.1.4 Isolate and Correct Malfunctions	*							-	-	-
7.2.1.5 Advanced Troubleshooting		*						-	-	-
7.2.2 RF Distribution TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.2.2.1 Theory of Operation								-	-	-
7.2.2.2 Operational Checkout	*							-	-	-
7.2.2.3 Locate installed LRUs and C/Bs	*							-	-	-
7.2.2.4 Isolate and Correct Malfunctions		*						-	-	-
7.2.3 Audio Distribution TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.2.3.1 Theory of Operation								-	-	-
7.2.3.2 Operational Checkout	*							-	-	-
7.2.3.3 Locate installed LRUs and C/Bs	*							-	-	-
7.2.3.4 Isolate and Correct Malfunctions		*						-	-	-
7.2.4 Video Distribution TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.2.4.1 Theory of Operation								-	-	-
7.2.4.2 Operational Checkout	*							-	-	-

RC-135 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.2.4.3 Locate installed LRUs and C/Bs	*							-	-	-
7.2.4.4 Isolate and Correct Malfunctions	*							-	-	-
7.2.4.5 Advanced Troubleshooting		*						-	-	-
7.2.5 IF Distribution TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.2.5.1 Theory of Operation								-	-	-
7.2.5.2 Operational Checkout	*							-	-	-
7.2.5.3 Locate installed LRUs and C/Bs	*							-	-	-
7.2.5.4 Isolate and Correct Malfunctions	*							-	-	-
7.2.5.5 Advanced Troubleshooting		*						-	-	-
7.2.6 Manual ELINT Systems TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.2.6.1 Theory of Operation								-	-	-
7.2.6.2 Operational Checkout	*							-	-	-
7.2.6.3 Locate installed LRUs and C/Bs	*							-	-	-
7.2.6.4 Isolate and Correct Malfunctions	*							-	-	-
7.2.6.5 Advanced Troubleshooting		*						-	-	-
7.3 ADVANCED MISSION SYSTEMS TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.3.1 DF Systems TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.3.1.1 Theory of Operation								-	-	-
7.3.1.2 Operational Checkout	*							-	-	-
7.3.1.3 Locate installed LRUs and C/Bs	*							-	-	-
7.3.1.4 Isolate and Correct Malfunctions		*						-	-	-
7.3.2 Special Signals Systems TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.3.2.1 Theory of Operation								-	-	-
7.3.2.2 Operational Checkout	*							-	-	-
7.3.2.3 Locate installed LRUs and C/Bs	*							-	-	-
7.3.2.4 Isolate and Correct Malfunctions		*						-	-	-
7.3.3 QRC Systems TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.3.3.1 Theory of Operation								-	-	-
7.3.3.2 Operational Checkout	*							-	-	-
7.3.3.3 Locate installed LRUs and C/Bs	*							-	-	-
7.3.3.4 Isolate and Correct Malfunctions		*						-	-	-
7.4 COMMUNICATION SYSTEMS TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.4.1 Intercommunication System										

RC-135 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.4.1.1 Theory of Operation								-	-	-
7.4.1.2 Operational Checkout	*							-	-	-
7.4.1.3 Locate installed LRUs and C/Bs	*							-	-	-
7.4.1.4 Isolate and Correct Malfunctions	*							-	-	-
7.4.1.5 Advanced Troubleshooting		*						-	-	-
7.4.2 UHF/VHF Communication Systems TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.4.2.1 Theory of Operation								-	-	-
7.4.2.2 Operational Checkout	*							-	-	-
7.4.2.3 Locate installed LRUs and C/Bs	*							-	-	-
7.4.2.4 Isolate and Correct Malfunctions	*							-	-	-
7.4.2.5 Advanced Troubleshooting		*						-	-	-
7.4.3 Cryptological Systems TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.4.3.1 Theory of Operation								-	-	-
7.4.3.2 Operational Checkout	*							-	-	-
7.4.3.3 Locate installed LRUs and C/Bs	*							-	-	-
7.4.3.4 Isolate and Correct Malfunctions	*							-	-	-
7.4.3.5 Advanced Troubleshooting		*						-	-	-
7.4.4 Data Link Systems TR: ETM-RC135V/W-2 / ETM-RC-135U-2A ES (2000/2001)-0925-SERIES										
7.4.4.1 Theory of Operation								-	-	-
7.4.4.2 Operational Checkout								-	-	-
7.4.4.3 Locate installed LRUs and C/Bs								-	-	-
7.4.4.4 Isolate and Correct Malfunctions								-	-	-
7.4.4.5 Advanced Troubleshooting		*						-	-	-

B-1 TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
<b>Attachment 8 B-1 Training Requirements</b>											
NOTE 1: The apprentice course, J3ABR2A933XXXXX, Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.											
NOTE 2: All course requirements are trained in the 3-level resident course during wartime.											
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.											
NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).											
NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an “*” does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.											
NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908											
<b>8.1 GENERAL ORGANIZATION MAINTENANCE (B-1)</b> TR: TO 1B-2-00GV-00-1											
8.1.1 Operate auxiliary power units (APUs)									-	-	-
8.1.2 Apply external liquid coolant	*								-	-	-
8.1.3 Ensure aircraft safe for maintenance	*								-	-	-
8.1.4 Apply Hydraulic Power									-	-	-
8.1.5 Operate Flaps									-	-	-
8.1.6 Apply external power	*								-	-	-
<b>8.2 ON-AIRCRAFT TEST SYSTEMS (B-1)</b>											
<b>8.2.1 Central Integrated Test System (CITS)</b>											
8.2.1.1 Purpose TR: TR: TO 1B-1B-2-46GS-00-1									-	-	-
8.2.1.2 Interface with Defensive Avionics Systems (DAS) TR: TR: TOs 1B-1B-2- 46GS-00- 1, - 93GS-00-1, -2	*								-	-	-
8.2.1.3 Use Parameter Monitor Codes for systems monitoring/fault isolation TR: TR: System GS-00-1, GS-00- 2	*								-	-	-
8.2.1.4 Use CITS data snapshots TR: TR: 1B-1B-2-40GS-00-1	*								-	-	-
8.2.1.5 Use CITS Deployable Diagnostic System	*								-	-	-
8.2.1.6 Use aircraft STIM codes (PC Ops)	*								-	-	-
<b>8.3 ELECTRICAL MULTIPLEXING SYSTEM (EMUX) (B-1)</b>											
8.3.1 Purpose TR: TR: TO 1B-1B-2-92GS-00-1									-	-	-
8.3.2 Interface with DAS TR: TR: TO 1B-1B-2-92GS-00-1, -2									-	-	-
<b>8.4 AVIONICS CONTROL UNIT COMPLEX (ACUC) (B-1)</b>											
8.4.1 Purpose TR: TR: TO 1B-1B-2-92GS-00-1									-	-	-
8.4.2 Interface with DAS Systems TR: TR: TO 1B-1B-2-92GS-00-1, -2, -3									-	-	-
8.4.3 Load and Log off ACUC	*								-	-	-

B-1 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: TR: TO 1B-1B-2-34JG-60-2										
8.4.4 Perform data erase TR: TR: TO 1B-1B-2-34JG-60-2	*							-	-	-
8.4.5 Use FH Page TR: TR: TO 1B-1B-93GS-00-2	*							-	-	-
8.5 DEFENSIVE SYSTEMS ORGANIZATIONAL LEVEL MAINTENANCE (B-1)										
8.5.1 Functional operation of AN/ALQ-161 TR: TR: TOs 1B-1B-2-93GS-00-1, -2, -3								-	-	-
8.5.2 Perform Waveguide Pressurization Check	*							-	-	-
8.5.3 End-to-end check of AN/ALQ- 161 TR: TR: TO 1B-1B-2-93-8-1										
8.5.3.1 Enhanced Automated Special Test Equipment and Hooded Antenna Test System TR: TR: TOs 33D7-13-205-1, and 33D7-35-64-1		*						-	-	-
8.5.3.2 Theory of Operation								-	-	-
8.5.3.3 Perform EASTE Cart Calibration		*						-	-	-
8.5.3.4 Perform EASTE Cart Maintenance		*						-	-	-
8.5.3.5 Perform functional checkouts										
8.5.3.5.1 Parameter Encoder		*						-	-	-
8.5.3.5.2 LEES Sensitivity		*						-	-	-
8.5.3.5.3 Wide Open Sensitivity		*						-	-	-
8.5.3.5.4 Reject YIG Filter		*						-	-	-
8.5.3.5.5 Nose Detect		*						-	-	-
8.5.3.5.6 PD/CW Spiral Search		*						-	-	-
8.5.3.5.7 Antenna Direction of Arrival		*						-	-	-
8.5.3.5.8 RF Signal Management		*						-	-	-
8.5.3.5.9 NEAJAM		*						-	-	-
8.5.3.5.10 Transmitter Maximum Power		*						-	-	-
8.5.3.5.11 Beamsteering		*						-	-	-
8.5.3.5.12 Repeater		*						-	-	-
8.5.3.5.13 1122 Function		*						-	-	-
8.5.3.5.14 Tail Warning Function		*						-	-	-
8.5.4 Defensive Management Subsystem										
8.5.4.1 Theory of Operation TR: TR: TOs 1B-1B-2-93GS-00- 1, -2, - 3								-	-	-
8.5.4.2 Isolate Malfunctions TR: TR: TOs 1B-1B-2-93-8-1; 1B-1B-2- 93GS-00-1, -2, -3; -93WD-00-1; and CITS Parameter File	*							-	-	-
8.5.4.3 Perform Advanced Troubleshooting		*						-	-	-
8.5.4.4 Perform Ground Readiness Test (GRT) TR: TR: TO 1B-1B-2-40JG-93-1										
8.5.4.4.1 Defensive System Operator (DSO)	*							-	-	-

B-1 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
track handle										
8.5.4.4.2 Radio Frequency/ Surveillance/Electronic Countermeasures (RFS/ECM) panel	*							-	-	-
8.5.4.4.3 Defensive System Operator (DSO) Power Panel	*							-	-	-
8.5.4.4.4 Defensive System Operator (DSO) Display Electronics Unit/Multifunction Display (DEU/MFD)	*							-	-	-
8.5.4.4.5 Graphics Generator/Electronic Display Unit (GG/EDU) #1	*							-	-	-
8.5.4.4.6 Graphics Generator/Electronic Display Unit (GG/EDU) #2	*							-	-	-
8.5.4.4.7 Defensive System Operator Integrated Keyboard (DSO IKB)	*							-	-	-
8.5.4.4.8 Control and Display (C and D) power supply	*							-	-	-
8.5.4.4.9 Left/right/aft sector power supply initialization	*							-	-	-
8.5.4.5 Isolate Malfunctions TR: TR: TOs 1B-1B-2-40JG-93- 1; - 93GS-00-1, -2; -93WD- 00-1; -93GS- 00-3	*							-	-	-
8.5.4.6 Perform Advanced Troubleshooting		*						-	-	-
8.5.4.7 Remove and Install LRUs										
8.5.4.7.1 Receiver threshold control (RTC)	*							-	-	-
8.5.4.7.2 PACC transformer		*						-	-	-
8.5.4.7.3 Advanced Tracking Unit (ATU)	*							-	-	-
8.5.4.7.4 Control Interface Unit (CIU)	*							-	-	-
8.5.4.7.5 Jammer Logic A (JLA)	*							-	-	-
8.5.4.7.6 Jammer Logic B (JLB)	*							-	-	-
8.5.5 Detection Subsystem										
8.5.5.1 Theory of Operation TR: TR: TOs 1B-1B-2-93GS-00- 1, -2, - 3								-	-	-
8.5.5.2 Perform Ground Readiness Test (GRT) TR: TR: TO 1B-1B-2-40JG-93-1								-	-	-
8.5.5.3 Isolate Malfunctions TR: TR: TOs 1B-1B-2-93-8-1; 1B-1B-2- 93GS-00-1, -2, -3; -93WD-00-1; and CITS Parameter File	*							-	-	-
8.5.5.4 Perform Advanced Troubleshooting		*						-	-	-
8.5.5.5 Remove and Install LRUs TR: TR: TO 1B-1B-2-93JG-40-1, -2										
8.5.5.5.1 Directional Finding Encoder	*							-	-	-
8.5.5.5.2 Encoder	*							-	-	-
8.5.5.5.3 Bands 4-8 receiver	*							-	-	-
8.5.5.5.4 Frequency channelizer	*							-	-	-

B-1 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
8.5.5.5.5 Bands 6, 7 and 8 aft antenna directional receiver	*							-	-	-
8.5.5.5.6 Interferometer receiver	*							-	-	-
8.5.6 Active subsystem										
8.5.6.1 Theory of Operation TR: TR: TO 1B-1B-2-93GS-00-1, -2, -3								-	-	-
8.5.6.2 Perform NEAJAM check	*							-	-	-
8.5.6.3 Perform Waveform Generator Data Load	*							-	-	-
8.5.6.4 Isolate Malfunctions TR: TR: TOs 1B-1B-2-93-8-1; 1B-1B-2-93GS-00-1, -2, -3; -93WD-00-1; and CITS Parameter File	*							-	-	-
8.5.6.5 Perform Advanced Troubleshooting		*						-	-	-
8.5.6.6 Perform Ground Readiness Test (GRT) TR: TR: TO 1B-1B-2-40JG-93-1										
8.5.6.6.1 Band 4 forward/aft transmitter								-	-	-
8.5.6.6.2 Band 5 forward/aft transmitter								-	-	-
8.5.6.6.3 Band 6 left/right/aft transmitter								-	-	-
8.5.6.6.4 Band 7 left/right/aft transmitter								-	-	-
8.5.6.6.5 Band 8 left/right/aft transmitter								-	-	-
8.5.6.7 Remove and Install LRUs										
8.5.6.7.1 Band 6 forward transmitter antenna	*							-	-	-
8.5.6.7.2 Band 6 aft transmitter antenna	*							-	-	-
8.5.6.7.3 Band 7 left forward transmitter antenna	*							-	-	-
8.5.6.7.4 Band 7 function 1122 fwd antenna	*							-	-	-
8.5.6.7.5 Band 7 function 1122 aft antenna	*							-	-	-
8.5.6.7.6 Band 7 function 1122 switch	*							-	-	-
8.5.6.7.7 Band 7 function 1122 sector select switch	*							-	-	-
8.5.6.7.8 Band 7 waveguide	*							-	-	-
8.5.6.7.9 Band 8 forward transmitter antenna	*							-	-	-
8.5.6.7.10 Band 8 function 1122 fwd antenna	*							-	-	-
8.5.6.7.11 Band 8 function 1122 aft antenna	*							-	-	-
8.5.6.7.12 Band 8 RF source	*							-	-	-
8.5.6.7.13 Band 8 wave guide	*									
8.5.7 Passive subsystem										
8.5.7.1 Theory of Operation TR: TR: TOs 1B-1B-2-93GS-00- 1, -2, -3								-	-	-
8.5.7.2 Perform Ground Readiness Test (GRT) TR: TR: TO 1B-1B-2-40JG-93-1								-	-	-
8.5.7.3 Perform fire pulse checkout TR: TR: TO 1B-1B-2-93JG-30-1	*							-	-	-
8.5.7.4 Isolate Malfunctions TR: TR: TOs 1B-1B-2-93-8-1; 1B-1B-2-93GS-00-1, -2, -3; -93WD-00-1; and CITS Parameter File	*							-	-	-

B-1 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
8.5.7.5 Perform Advanced Troubleshooting		*						-	-	-
8.5.7.6 Remove and Install LRUs TR: TR: TO 1B-1B-2-93JG-30-1										
8.5.7.6.1 EXCM controller	*							-	-	-
8.5.7.6.2 EXCM safety switch		*						-	-	-
8.5.8 Warning subsystem										
8.5.8.1 Theory of Operation TR: TR: TO 1B-1B-2-93GS-00-1, -2, -3								-	-	-
8.5.8.2 Perform Ground Readiness Test (GRT) TR: TR: TO 1B-1B-2-40JG-93-1	*							-	-	-
8.5.8.3 Perform Tail Warning Function Operational Check	*							-	-	-
8.5.8.4 Isolate Malfunctions TR: TR: TOs 1B-1B-2-93-8-1; 1B-1B-2-93GS-00-1, -2, -3; -93WD-00-1; and CITS Parameter File	*							-	-	-
8.5.8.5 Perform Advanced Troubleshooting		*						-	-	-
8.5.9 Remove and Install LRUs TR: TR: TO 1B-1B-2-93JG-80-1										
8.5.9.1 Tail warning function receiver processor	*							-	-	-
8.5.9.2 Tail warning function antenna assembly	*							-	-	-
8.5.9.3 ALE-50 Towed Decoy										
8.5.9.3.1 Theory of Operation TR: TR: TO 1B-1B-2-93GS-00- 1, -2								-	-	-
8.5.9.3.2 Perform BIT	*							-	-	-
8.5.9.3.3 Perform Operational Checkout	*							-	-	-
8.5.9.3.4 Isolate Malfunctions TR: TR: TOs 1B-1B-2-93-8-1; 1B-1B-2-93GS-00-1, -2, -3; -93WD-00-1; and CITS Parameter File	*							-	-	-
8.5.9.3.5 Perform Advanced Troubleshooting		*						-	-	-
8.5.9.3.6 Remove and Install LRUs TR: TR: TO-1B-1B-2-93JG- 10-3										
8.5.9.3.6.1 Circuit Breaker Panel	*							-	-	-
8.5.9.3.6.2 Transformer/Rectifier	*							-	-	-
8.5.9.3.6.3 Improved Multi-Platform Launch Controller	*							-	-	-
8.5.9.3.6.4 Ground Safe/Arm Switch	*							-	-	-
8.5.9.3.6.5 Launcher Assembly/Dual- Capable Launcher	*							-	-	-
8.5.9.3.6.6 Data link terminal	*							-	-	-
8.5.9.3.7 Memory Loader Verifier Set AN/USQ-131 (MLVS)										
8.5.9.3.7.1 Use and Operation TR: TR: 31S-2USQ-131-1	*							-	-	-
8.5.9.3.7.2 Perform Software Loading and Verification TR: TR: 31S-2USQ-131-1	*							-	-	-

B-2 TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
<b>Attachment 9 B-2 Training Requirements</b>											
NOTE 1: The apprentice course, J3ABR2A933XXXXX, Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.											
NOTE 2: All course requirements are trained in the 3-level resident course during wartime.											
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.											
NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).											
NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an "*" does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.											
NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908											
<b>9.1 GENERAL MAINTENANCE (B-2)</b>											
9.1.1	Operate AFT Avionics Bay Door TR: 1B-2A-2-01JG-60-2								-	-	-
9.1.2	Remove/Install Aft Equipment Bay Access Panel		*						-	-	-
9.1.3	Perform ECS Power Up/Down TR: 1B-2A-2-21JG-00-1		*						-	-	-
9.1.4	Loosen/Tighten Swing Clamps TR: 1B-2A-2-01JG-30-1		*						-	-	-
9.1.5	Install/Remove Maintenance Write Disk TR: 1B-2A-2-31JG-10-1								-	-	-
9.1.6	Ensure Aircraft Safe for Maintenance TR: 1B-2A-2-05JG-20-1		*						-	-	-
9.1.7	Apply External Power TR: 1B-2A-2-05JG-10-1, 1B-2A-2-05JG-10-2		*						-	-	-
9.1.8	Remove/Install Avionics Rack Access Panels		*						-	-	-
9.1.9	Remove/Install Internal Access Panels		*						-	-	-
9.1.10	Remove/Install External Access Panels		*						-	-	-
9.1.11	Remove/Install Lexan Panels		*						-	-	-
9.1.12	Circuit Breaker Panel Maintenance								-	-	-
9.1.13	Remove/Install Power Control Unit								-	-	-
9.1.14	Perform Power Control Unit Ops Check								-	-	-
<b>9.2 ON-BOARD TEST SYSTEM (OBTS) (B-2)</b>											
9.2.1	Functional Theory of Operation TR: TOs 1B-2A-2-31GS-00-1, -40GS-00-1								-	-	-
9.2.2	Purpose TR: TO 1B-2A-2-24GS-00-1								-	-	-
9.2.3	Interface with DAS systems TR: TO 1B-2A-2-93GS-00-1								-	-	-
9.2.4	Use OBTS Data and OBTS Digital Computer System (ODCS) Reports for fault isolation of Aircraft Systems Malfunctions TR: TO 1B-2A-2-40GS-00-1 and applicable system GS-00-1			*					-	-	-

B-2 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
9.2.5 Login/Logout OGPII TR: Software Users Manual-	*							-	-	-
9.2.6 Produce/Recreate Debrief Reports TR: TO 31S5-4-2340-1								-	-	-
9.2.7 Run Predefined Text and Graphics Reports TR: TO 31S5-4-2340-1								-	-	-
9.2.8 Produce Ad-Hoc Reports TR: TO 31S5-4-2340-1	*							-	-	-
<b>9.3 MULTIPLEX BUS SYSTEM (B-2)</b>										
9.3.1 Purpose TR: TO 1B-2A-2-40GS-00-1								-	-	-
9.3.2 Functional theory of operation TR: TO 1B-2A-A-40GS-00-1								-	-	-
9.3.3 Isolate Malfunctions	*							-	-	-
9.3.4 Perform Advanced Troubleshooting		*						-	-	-
9.3.5 Remove and Install TR: TO 1B-2A-2-27GS-00-1										
9.3.5.1 Bus connectors	*							-	-	-
9.3.5.2 Bus terminators	*							-	-	-
9.3.5.3 Bus couplers	*							-	-	-
<b>9.4 FLIGHT MANAGEMENT SYSTEM (B-2)</b>										
9.4.1 Purpose								-	-	-
9.4.2 Interface with DMS								-	-	-
9.4.3 Perform OFP Load	*							-	-	-
9.4.4 Perform Mission Data Load	*							-	-	-
9.4.5 Perform Classified Data Erase	*							-	-	-
<b>9.5 DEFENSIVE SYSTEMS ORGANIZATIONAL LEVEL MAINTENANCE (B-2)</b>										
9.5.1 Defensive management processors (ZSR-61 system)										
9.5.1.1 Theory of Operation TR: TO 1B-2A-2-93GS-00-1								-	-	-
9.5.1.2 Isolate Malfunctions	*							-	-	-
9.5.1.3 Perform Advanced Troubleshooting TR: TOs 1B-2A-2-93GS-00- 1, -93WD-00-1		*						-	-	-
9.5.2 Remove/Install Processor	*							-	-	-
9.5.3 AN/APR-50 Receiver (Threat emitter location system)										
9.5.3.1 Theory of Operation TR: TO 1B-2A-2-93GS-00-1								-	-	-
9.5.3.2 Perform preprocessor data load TR: TO 1B-2A-2-93JG-50-1		*						-	-	-
9.5.3.3 Perform operational check TR: TO 1B-2A-2-40JG-10-1	*							-	-	-
9.5.3.4 Isolate Malfunctions	*							-	-	-
9.5.3.5 Perform Advanced Troubleshooting		*						-	-	-

B-2 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: TOs 1B-2A-2-93GS-00- 1, -93WD-00-1										
<b>9.5.3.6 Remove/Install</b>										
9.5.3.6.1 Band -1, -2, -3 Receiver Tasks 93-52-111-2-3	*							-	-	-
9.5.3.6.2 Band-4 Receiver Tasks 93- 52-111-2, -3	*							-	-	-
9.5.3.6.3 Preprocessor Tasks 93-52- 109-2, -3	*							-	-	-
9.5.3.6.4 Processor Tasks 93-52- 107-2, -3	*							-	-	-
9.5.3.6.5 RF front end - Band 1 Tasks 93-52-101-2, -3	*							-	-	-
9.5.3.6.6 RF front end - Band 2/3 Tasks 93-52-103-2, -3	*							-	-	-
9.5.3.6.7 RF front end - Band 3 Tasks 93-52-105-2, -3	*							-	-	-
9.5.3.6.8 Band-1 Antenna		*						-	-	-
9.5.3.6.9 Band-2 Antenna		*						-	-	-
9.5.3.6.10 Band-3 Antenna		*						-	-	-
9.5.3.6.11 Band-4 Antenna		*						-	-	-
9.5.3.6.12 Aft junction box								-	-	-
9.5.3.6.13 Cable compensation unit								-	-	-
9.5.3.6.14 Phase matched cables	*							-	-	-
9.5.3.6.15 Semi-rigid coaxial cables	*							-	-	-
<b>9.6 PILOT ALERT SYSTEM (B-2) TR: TO 1B-2A-2-31GS-00-1</b>										
9.6.1 Theory of Operation								-	-	-
9.6.2 Perform operation check	*							-	-	-
9.6.3 Isolate Malfunctions	*							-	-	-
9.6.4 Perform Advanced Troubleshooting TR: TOs 1B-2A-2-31GS-00- 1, -31WD-00-1		*						-	-	-
9.6.5 Perform Leak Test		*						-	-	-
9.6.6 Perform Purge Test		*						-	-	-
9.6.7 Inspect Pilot Alert System Window		*						-	-	-
<b>9.6.8 Remove/Install TR: TO 1B-2A-2-31JG-50-1</b>										
9.6.8.1 Sensor	*							-	-	-
9.6.8.2 Processor	*							-	-	-
9.6.8.3 Dehumidifier (Desiccant)	*							-	-	-
9.6.8.4 Window		*						-	-	-
<b>9.7 TEST EQUIPMENT</b>										
9.7.1 Microcircuit Programmer (MLV) TR: 33D7-159-1								-	-	-
9.7.2 AN/GSM-352 Antenna system test set TR: 33D7-135-1								-	-	-
9.7.3 AN/ALM-280 Enhanced Automated Special Test Equipment								-	-	-

**B-2 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: 33D7-13-205-1										
9.7.4 Transmission Line and Antenna Cabling Test Set	*							-	-	-
9.7.5 Bus Characterization	*							-	-	-
9.7.6 Enhanced Diagnostic Aid	*							-	-	-

B-52 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
<b>Attachment 10 B-52 Training Requirements</b>										
NOTE 1: The apprentice course, J3ABR2A933XXXXX, Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.										
NOTE 2: All course requirements are trained in the 3-level resident course during wartime.										
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.										
NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).										
NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an "*" does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.										
NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908										
10.1 ON-EQUIPMENT MAINTENANCE (B-52) TR: TO 1B-52H / TO 1B-52H-6 / TO 1B-52H-2-XGA-X / TO 1B-52H-2JG-2 / TO 1B-52H-6WC-1										
10.1.1 General										
10.1.1.1 Ensure Aircraft Is Safe For Maintenance	*							-	-	-
10.1.1.2 Check/install ejection seat safing pins	*							-	-	-
10.1.1.3 Locate electrical distribution system components (circuit breakers, relays, etc.)	*							-	-	-
10.1.1.4 Apply external power	*							-	-	-
10.1.1.5 Operate aircraft interphone system	*							-	-	-
10.1.1.6 Open and close nose radome	*							-	-	-
10.1.1.7 Secure/unsecure aircraft panels, doors, and radomes applicable to EW systems	*							-	-	-
10.1.1.8 Inspect and repair LRU racks, shock mounts, and static bonding devices	*							-	-	-
10.1.1.9 Perform aircraft preflight inspection (EWS portion)	*							-	-	-
10.1.1.10 Perform aircraft alert inspection (EWS portion)	*							-	-	-
10.1.1.11 Operate flaps								-	-	-
10.1.2 AN/ALE-20 Flare Ejector System TR: TO 1B-52H-2-20, Sect. 6										
10.1.2.1 Theory of operation								-	-	-
10.1.2.2 Perform stepper switch resetting procedure	*							-	-	-
10.1.2.3 Adjust flare door safety switch		*						-	-	-
10.1.2.4 Isolate Malfunctions	*							-	-	-
10.1.2.5 Perform Advanced Troubleshooting		*						-	-	-
10.1.2.6 Perform Operational Checks										
10.1.2.6.1 Preload checkout	*							-	-	-
10.1.2.6.2 Fast checkout								-	-	-
10.1.2.6.3 Complete checkout	*							-	-	-

B-52 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
10.1.2.7 Remove And Install Components										
10.1.2.7.1 Junction box	*							-	-	-
10.1.2.7.2 Stepping switches	*							-	-	-
10.1.2.7.3 Ground test and safety interlock switches	*							-	-	-
10.1.3 AN/ALE-24 Chaff Dispensing System TR: TO 1B-52H-2-20, Sect. 7										
10.1.3.1 Theory of operation								-	-	-
10.1.3.2 Isolate Malfunctions	*							-	-	-
10.1.3.3 Perform Advanced Troubleshooting		*						-	-	-
10.1.3.4 Perform Operational Checks										
10.1.3.4.1 Chaff dispensing test procedure	*							-	-	-
10.1.3.4.2 Complete checkout	*							-	-	-
10.1.3.5 Remove and Install Components										
10.1.3.5.1 D-20 Ejectors	*							-	-	-
10.1.3.5.2 Magazines	*							-	-	-
10.1.4 AN/ALR-20 Panoramic Receiver TR: TO 1B-52H-2-20, Sect 4										
10.1.4.1 Theory of operation								-	-	-
10.1.4.2 Isolate Malfunctions	*							-	-	-
10.1.4.3 Perform Advanced Troubleshooting		*						-	-	-
10.1.4.4 Perform Operational Checks										
10.1.4.4.1 Fast checkout	*							-	-	-
10.1.4.4.2 Look through checks	*							-	-	-
10.1.4.4.3 Monitor probe antenna check	*							-	-	-
10.1.4.4.4 Blanking check	*							-	-	-
10.1.4.5 Remove and Install Components										
10.1.4.5.1 C-9449 Receiver control	*							-	-	-
10.1.4.5.2 IP-1168, IP1168B Indicators	*							-	-	-
10.1.4.5.3 PP-3406 Power supply	*							-	-	-
10.1.4.5.4 Blanking amplifier	*							-	-	-
10.1.4.5.5 Trace 1 Antenna Left Wingtip	*							-	-	-
10.1.5 AN/ALT-32A Jamming Transmitter TR: TO 1B-52H-2-20, Sect 11										
10.1.5.1 Theory of operation								-	-	-
10.1.5.2 Isolate Malfunctions	*							-	-	-
10.1.5.3 Perform Advanced Troubleshooting		*						-	-	-
10.1.5.4 Perform Fast Checkout	*							-	-	-
10.1.5.5 Remove and Install Components										
10.1.5.5.1 C-7721, C-7722 Control- Indicators	*							-	-	-
10.1.5.5.2 T-1086, T-1087 Transmitters	*							-	-	-
10.1.5.5.3 Antenna Right Wingtip	*							-	-	-
10.1.6 AN/ALT-16A / AN/ALQ-122 Countermeasures System TR: TO 1B-52H-2-20, Sect 8										
10.1.6.1 Theory of operation								-	-	-

B-52 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
10.1.6.2 Isolate Malfunctions	*							-	-	-
10.1.6.3 Perform Advanced Troubleshooting		*						-	-	-
10.1.6.4 Perform Operational Checks										
10.1.6.4.1 Operational checkout	*							-	-	-
10.1.6.4.2 Operational checkout using the AN/USM-464A Countermeasures Test Set								-	-	-
10.1.6.4.3 System test cable measurement	*							-	-	-
10.1.6.4.4 Jamming transmitter fast checkout								-	-	-
10.1.7 AN/ALQ-155(V) POWER MANAGEMENT SYSTEM										
10.1.7.1 Theory of operation								-	-	-
10.1.7.2 Isolate Malfunctions	*							-	-	-
10.1.7.3 Perform Advanced Troubleshooting		*						-	-	-
10.1.7.4 Perform HD-766A filling and draining Procedures	*							-	-	-
10.1.7.5 Reprogram system	*							-	-	-
10.1.7.6 Perform Operational Checks										
10.1.7.6.1 Cooling system check	*							-	-	-
10.1.7.6.2 Fast checkout	*							-	-	-
10.1.7.6.3 Operational checkout using the AN/USM-464A Countermeasures Test Set								-	-	-
10.1.7.7 Remove and Install Components										
10.1.7.7.1 C-10130 Control-Indicator/Programmers	*							-	-	-
10.1.7.7.2 HD-766A Liquid coolers	*							-	-	-
10.1.7.7.3 MX-8225 Flow protection valves	*							-	-	-
10.1.7.7.4 RT-1219 Receiver/Transmitters and T- 1150D Transmitters	*							-	-	-
10.1.7.7.5 Antennas	*							-	-	-
10.1.7.7.6 Perform loading/unloading procedures using transmitter loader	*							-	-	-
10.1.8 AN/ALQ-172(V)2 Countermeasures System TR: TO 1B-52H-2-20, Sect 3										
10.1.8.1 Theory of operation								-	-	-
10.1.8.2 Isolate Malfunctions	*							-	-	-
10.1.8.3 Perform Advanced Troubleshooting		*						-	-	-
10.1.8.4 Reprogram system	*							-	-	-
10.1.8.5 Reconfigure AS-4078 Phased array antennas	*							-	-	-
10.1.8.6 Adjust pressure switches	*							-	-	-
10.1.8.7 Perform Operational Checks										
10.1.8.7.1 System checkout	*							-	-	-
10.1.8.7.2 Interface check	*							-	-	-
10.1.8.7.3 Operational checkout using the								-	-	-

B-52 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
AN/USM-464A Countermeasures Test Set										
10.1.8.7.4 Pressurization checks	*							-	-	-
10.1.8.7.5 Blanking check	*							-	-	-
10.1.8.8 Remove and Install Components										
10.1.8.8.1 CV-3773 Electronics Unit	*							-	-	-
10.1.8.8.2 AS-4078 Phased Array Antennas	*							-	-	-
10.1.8.8.3 SA-2396 Quadrant Switches	*							-	-	-
10.1.8.8.4 Pressure pumps	*							-	-	-
10.1.8.8.5 Pressure switches	*							-	-	-
10.1.8.8.6 Low pressure warning and blanking control panel	*							-	-	-
10.1.9 Sensor Integration TR: TO 1B-52H-2-20, Sect 10										
10.1.9.1 Theory of operation								-	-	-
10.1.9.2 Isolate Malfunctions	*							-	-	-
10.1.9.3 Perform Advanced Troubleshooting		*						-	-	-
10.1.9.4 Reprogram system	*							-	-	-
10.1.9.5 Perform operational checkout	*							-	-	-
10.1.10 Radar Warning Receiver TR: TO 1B-52H-2-20, Sect 12										
10.1.10.1 Theory of operation								-	-	-
10.1.10.2 Isolate Malfunctions	*							-	-	-
10.1.10.3 Perform Advanced Troubleshooting		*						-	-	-
10.1.10.4 Perform dot centering adjustment								-	-	-
10.1.10.5 Reprogram system	*							-	-	-
10.1.10.6 Perform Operational Checks										
10.1.10.6.1 Operational Checkout	*							-	-	-
10.1.10.6.2 Operational checkout using the AN/USM-464A Countermeasures Test Set								-	-	-
10.1.10.6.3 Blanking check	*							-	-	-
10.1.10.7 Remove and Install Components										
10.1.10.7.1 AM-6639 Amplifier- Detectors	*							-	-	-
10.2 OFF-EQUIPMENT MAINTENANCE (B-52) TR: TO 00-25-234 / TO 1-1A-15										
10.2.1 Fabricate test bench/mock-up TR: TO 00-25-234, 1-1A-15, 33-1-32								-	-	-
10.2.2 Maintain test bench/mock-up TR: TO 00-25-234, 1-1A-15								-	-	-
10.2.3 Perform visual inspection of LRUs								-	-	-
10.2.4 AN/ALE-24 Chaff Dispensing System TR: TO 12P3-2ALE24-2, 12P3-2ALE24-4										
10.2.4.1 Perform AN/ALE-24 chaff magazine loading and handling procedures	*							-	-	-

B-52 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
10.2.4.2 Perform Operational Checkout										
10.2.4.2.1 C-4507 Programmer								-	-	-
10.2.4.2.2 C-4508 Selector								-	-	-
10.2.4.2.3 D-20 Dispenser								-	-	-
10.1.4.3 Troubleshoot/Align										
10.1.4.3.1 C-4507 Programmer								-	-	-
10.1.4.3.2 C-4508 Selector								-	-	-
10.1.4.3.3 D-20 Dispenser								-	-	-
10.2.5 AN/ALQ-155(V) Power Management System TR: TO 12P3-2ALQ155-2										
10.2.5.1 Perform C-10130 Operational checkout								-	-	-
10.2.5.2 Align/Reprogram C-10130								-	-	-
10.2.5.3 Troubleshoot C-10130								-	-	-
10.2.5.4 Perform T1150D/RT-1219 Operational checkout								-	-	-
10.2.5.5 Align T-1150D/RT-1219								-	-	-
10.2.5.6 Troubleshoot T-1150D/RT- 1219								-	-	-
10.2.5.7 AN/ALM-99B Test Set TR: TO 33D7-42-11-1										
10.2.5.7.1 Perform operational checkout								-	-	-
10.2.5.7.2 Troubleshoot								-	-	-
10.2.5.7.3 Calibrate								-	-	-
10.2.5.8 AN/ALM-194 TR: TO 33D7-13-80-1										
10.2.5.8.1 Perform operational checkout								-	-	-
10.2.5.8.2 Perform power supply voltage measurement								-	-	-
10.2.5.8.3 Perform preventive maintenance								-	-	-
10.2.5.8.4 Troubleshoot								-	-	-
10.2.5.9 AN/ALM-244 TR: TO 33D7-29-7-1										
10.2.5.9.1 Inspect and repair								-	-	-
10.2.6 AN/ALQ-172(V) CM SYSTEM TR: TO 12P3-2ALQ172-2										
10.2.6.1 Perform system checkout								-	-	-
10.2.6.2 Troubleshoot								-	-	-
10.2.6.3 Reprogram LRUs								-	-	-
10.2.6.4 Perform LRU repairs								-	-	-
10.2.6.5 AN/ALM-252(V) Test Bench TR: TO 33D7-13-109-1										
10.2.6.5.1 Operate								-	-	-
10.2.6.5.2 Inspect and clean								-	-	-
10.2.6.5.3 Perform calibration check and adjustment								-	-	-
10.2.6.5.4 Perform checkout								-	-	-
10.2.6.5.5 Troubleshoot								-	-	-

B-52 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
10.2.6.6 AN/ALM-267 Miltope Tiger II Electronic Test Set TR: TO 33D7-3-335-1, TM M365-295										
10.2.6.6.1 Operate								-	-	-
10.2.6.6.2 Inspect and clean								-	-	-
10.2.6.6.3 Troubleshoot								-	-	-
10.2.6.6.4 Repair								-	-	-
10.2.7 AN/USM-464A COUNTERMEASURES TEST SET TR: TO 33D7-13-85-1										
10.2.7.1 Perform inspections and preventive maintenance								-	-	-
10.2.7.2 Troubleshoot								-	-	-
10.2.7.3 Remove and replace components								-	-	-
10.2.7.4 Perform Intermediate Level Calibration								-	-	-
10.2.7.5 Perform Winchester drive files maintenance								-	-	-
10.2.7.6 Perform computer hard drive file maintenance								-	-	-
10.2.8 Radar Warning Receiver (RWR) TR: TO 12P3-2ALR69-98-1										
10.2.8.1 Perform operational checkout								-	-	-
10.2.8.2 Troubleshoot								-	-	-
10.2.8.3 Reprogram								-	-	-
10.2.8.4 Perform LRU repairs								-	-	-
10.2.8.5 RWR Mock-up										
10.2.8.5.1 Perform operational checkout								-	-	-
10.2.8.5.2 Inspect								-	-	-
10.2.8.5.3 Troubleshoot								-	-	-
10.2.8.5.4 Repair								-	-	-
10.2.9 Inspect and maintain OF-180 Aircraft Adapter Group (AAG) TR: TO 33D7-50-1267-1								-	-	-
10.2.10 Inspect and maintain OF-208 Aircraft Adapter Group (AAG) TR: TO 33D7-50-1623-1								-	-	-

EC-130 TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
<b>Attachment 11 EC-130 Training Requirements</b>											
NOTE 1: The apprentice course, J3ABR2A933XXXXX, Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.											
NOTE 2: All course requirements are trained in the 3-level resident course during wartime.											
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.											
NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).											
NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an "*" does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.											
NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908											
11.1	EC-130H TRAINING REQUIREMENTS										
11.1.1	GENERAL MAINTENANCE TR: Applicable EC-130 Technical Data										
11.1.1.1	Practice safety when working with RF equipment	*							-	-	-
11.1.1.2	Apply and remove power thru special systems receptacle	*							-	-	-
11.1.1.3	Operate special systems air conditioner	*							-	-	-
11.1.2	SPECIAL SYSTEMS ANTENNAS TR: Applicable EC-130 Technical Data										
11.1.2.1	Identify and locate Receive/DF Components	*							-	-	-
11.1.2.2	Identify and Locate Transmit Components	*							-	-	-
11.1.2.3	Identify and locate RF transmission lines	*							-	-	-
11.1.2.4	Perform Operational Checkout	*							-	-	-
11.1.2.5	Isolate Malfunctions	*							-	-	-
11.1.2.6	Advanced Troubleshooting		*						-	-	-
11.1.2.7	Remove and Install TR: Applicable EC-130 Technical Data										
11.1.2.7.1	Low band transmit antenna outer elements upper quadrant	*							-	-	-
11.1.2.7.2	Low band transmit antenna outer elements lower quadrant	*							-	-	-
11.1.2.7.3	Horizontal stabilizer leading edge								-	-	-
11.1.2.7.4	Low band transmit antenna inner elements	*							-	-	-
11.1.2.7.5	Low band transmit antenna coax feeder cable	*							-	-	-
11.1.2.7.6	Low band transmit antenna transformer	*							-	-	-
11.1.2.7.7	Low band transmit antenna feedboom TR: Applicable EC-130 Technical										

EC-130 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
Data										
11.1.2.7.7.1 Lower guy rope	*							-	-	-
11.1.2.7.7.2 Upper guy rope	*							-	-	-
11.1.2.7.8 Mid band transmit antennas	*							-	-	-
11.1.2.7.9 High band HB (HB1/HB2) receive nose radome antennas	*							-	-	-
11.1.2.7.10 High band system receive nose radome antennas	*							-	-	-
11.1.2.7.11 High band system receive wingtip antennas	*							-	-	-
11.1.2.7.12 DF Retractable antennas	*							-	-	-
11.1.3 RF DISTRIBUTION SUBSYSTEM (RFD) TR: Applicable EC-130 Technical Data										
11.1.3.1 Theory of operation								-	-	-
11.1.3.2 Perform Operational Checkout	*							-	-	-
11.1.3.3 Isolate Malfunctions	*							-	-	-
11.1.3.4 Advanced Troubleshooting		*						-	-	-
11.1.4 TECHNICIAN STATION SUBSYSTEM TR: Applicable EC-130 Technical Data										
11.1.4.1 Theory of operation								-	-	-
11.1.4.2 Identify and locate major components	*							-	-	-
11.1.4.3 Perform Operational Checkout	*							-	-	-
11.1.4.4 Isolate Malfunctions	*							-	-	-
11.1.4.5 Advanced Troubleshooting		*						-	-	-
11.1.5 COMPUTER SUBSYSTEM TR: Applicable EC-130 Technical Data										
11.1.5.1 Theory of operation								-	-	-
11.1.5.2 Identify and locate major components	*							-	-	-
11.1.5.3 Perform Operational Checkout	*							-	-	-
11.1.5.4 Isolate Malfunctions	*							-	-	-
11.1.5.5 Advanced Troubleshooting		*						-	-	-
11.1.5.6 Perform Disciplined Frequency Standard (DFS) characterization	*							-	-	-
11.1.5.7 Perform battery removal and replacement procedures for DFS	*							-	-	-
11.1.6 HUMAN-MACHINE INTERFACE (HMI) TR: Applicable EC-130 Technical Data										
11.1.6.1 Theory of operation								-	-	-
11.1.6.2 Identify and locate major components	*							-	-	-
11.1.6.3 Perform Operational Checkout	*							-	-	-
11.1.6.4 Isolate Malfunctions	*							-	-	-
11.1.6.5 Advanced Troubleshooting		*						-	-	-
11.1.6.6 Removal and Install keyboard assemblies	*							-	-	-

EC-130 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
11.1.7 COMPASS CALL OPERATIONAL SOFTWARE (CCOS) TR: Applicable EC-130 Technical Data										
11.1.7.1 Perform basic CCOS keyset commands and arguments	*							-	-	-
11.1.7.2 Perform special systems initialization and shut down procedures	*							-	-	-
11.1.7.3 Perform level 1/ level 2/ Extended BITs	*							-	-	-
11.1.8 ACQUISITION SUBSYSTEM TR: Applicable EC-130 Technical Data										
11.1.8.1 Theory of operation								-	-	-
11.1.8.2 Identify and locate major components	*							-	-	-
11.1.8.3 Perform Operational Checkout	*							-	-	-
11.1.8.4 Isolate Malfunctions	*							-	-	-
11.1.8.5 Advanced Troubleshooting		*						-	-	-
11.1.9 ANALYSIS SUBSYSTEM TR: Applicable EC-130 Technical Data										
11.1.9.1 Theory of operation								-	-	-
11.1.9.2 Identify and locate major components	*							-	-	-
11.1.9.3 Perform Operational Checkout	*							-	-	-
11.1.9.4 Isolate Malfunctions	*							-	-	-
11.1.9.5 Advanced Troubleshooting		*						-	-	-
11.1.10 EXCITER SUBSYSTEM TR: Applicable EC-130 Technical Data										
11.1.10.1 Theory of operation								-	-	-
11.1.10.2 Identify and locate the major components	*							-	-	-
11.1.10.3 Perform Operational Checkout	*							-	-	-
11.1.10.4 Isolate Malfunctions	*							-	-	-
11.1.10.5 Advanced Troubleshooting		*						-	-	-
11.1.11 DF/SILO SUBSYSTEM TR: Applicable EC-130 Technical Data										
11.1.11.1 Theory of operation								-	-	-
11.1.11.2 Identify and locate major components	*							-	-	-
11.1.11.3 Perform Operational Checkout	*							-	-	-
11.1.11.4 Isolate Malfunctions	*							-	-	-
11.1.11.5 Advanced Troubleshooting		*						-	-	-
11.1.12 LOW BAND TRANSMIT SUBSYSTEM TR: Applicable EC-130 Technical Data										
11.1.12.1 Theory of operation								-	-	-
11.1.12.2 Identify and locate major components	*							-	-	-
11.1.12.3 Perform operational checkout	*							-	-	-
11.1.12.4 Perform power adjustments	*							-	-	-
11.1.12.5 Isolate Malfunctions	*							-	-	-
11.1.12.6 Advanced Troubleshooting		*						-	-	-

EC-130 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
11.1.13 MID BAND TRANSMIT SUBSYSTEM TR: Applicable EC-130 Technical Data										
11.1.13.1 Theory of operation								-	-	-
11.1.13.2 Identify and locate major components	*							-	-	-
11.1.13.3 Perform operational checkout	*							-	-	-
11.1.13.4 Perform power adjustments	*							-	-	-
11.1.13.5 Isolate Malfunctions	*							-	-	-
11.1.13.6 Advanced Troubleshooting		*						-	-	-
11.1.14 HIGH BAND SUBSYSTEM TR: Applicable EC-130 Technical Data										
11.1.14.1 Theory of operation								-	-	-
11.1.14.2 Identify and locate major components	*							-	-	-
11.1.14.3 Perform Operational Checkout	*							-	-	-
11.1.14.4 Isolate Malfunctions	*							-	-	-
11.1.14.5 Advanced Troubleshooting		*						-	-	-
11.1.15 HIGH BAND ONE TR: Applicable EC-130 Technical Data										
11.1.15.1 Identify and locate major components	*							-	-	-
11.1.16 HIGH BAND TWO TR: Applicable EC-130 Technical Data										
11.1.16.1 Identify and locate major components	*							-	-	-
11.1.17 HIGH BAND THREE TR: Applicable EC-130 Technical Data										
11.1.17.1 Identify and locate major components	*							-	-	-
11.1.18 SELF PROTECTION SYSTEMS										
11.1.18.1 AN/ALE-47 Countermeasures Dispensing Set (CMDS) TR: Applicable EC-130 Technical Data, 33DS112-16-1 and Other Applicable Directives										
11.1.18.1.1 Theory of Operation								-	-	-
11.1.18.1.2 Identify and locate major components	*							-	-	-
11.1.18.1.3 Reprogram AN/ALE-47 CMDS	*							-	-	-
11.1.18.1.4 Perform CMDS Operational Checkout	*							-	-	-
11.1.18.1.5 Isolate Malfunctions	*							-	-	-
11.1.18.1.6 Advanced Troubleshooting		*						-	-	-
11.1.18.1.7 Up/ Download Flares	*							-	-	-
11.1.18.2 An/AAR-54 Missile Warning System (MWS) TR: Applicable EC-130 Technical Data										
11.1.18.2.1 Theory of Operation								-	-	-
11.1.18.2.2 Identify and locate major components	*							-	-	-
11.1.18.2.3 Perform Operational Check	*							-	-	-

EC-130 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
11.1.18.2.4 Isolate Malfunctions	*							-	-	-
11.1.18.2.5 Advanced Troubleshooting		*						-	-	-
11.1.18.2.6 Clean Optical Sensors	*							-	-	-
11.1.19 MISCELLANEOUS TASKS TR: Applicable EC-130 Technical Data										
11.1.19.1 Perform Home Station Check on Special Systems	*							-	-	-
11.1.19.2 Perform ISO Inspection on Special Systems	*							-	-	-
11.1.19.3 Perform VSWR Check on Special Systems Transmit Antennas	*							-	-	-
11.1.19.4 Remove and install circuit card assemblies	*							-	-	-
11.1.19.5 Remove and install equipment racks	*							-	-	-
11.1.19.6 Rig Lower guy rope	*							-	-	-
11.1.19.7 Rig upper guy rope	*							-	-	-
11.1.19.8 Perform disk load procedures (A/C, PMPS, C2D2, BRCS, etc.)	*							-	-	-
11.1.19.9 Access and download software/files from the MSEWDDS	*							-	-	-
11.1.19.10 Understand/Maintain TMDE Program	*							-	-	-
11.1.19.11 Identify and Locate Data Guard Components	*							-	-	-
11.1.19.12 Theory of Operation of Data Guard								-	-	-
11.1.19.13 Identify and Locate Blade Processor Components	*							-	-	-
11.1.19.14 Theory of Operation of Blade Processor								-	-	-
11.1.20 SPECIAL EMITTER ARRAY (SPEAR) SUBSYSTEM TR: LTM 1EC-130H(CC)-2-14 CHAPTER 14, 1EC-130H(CC)-2-14CL-1, AFI 33-211 and Applicable Commercial Manuals										
11.1.20.1 Theory of Operation								-	-	-
11.1.20.2 Identify and locate all major components	*							-	-	-
11.1.20.3 Perform Operational Checkout	*							-	-	-
11.1.20.4 Isolate Malfunctions	*							-	-	-
11.1.20.5 Advanced Troubleshooting		*						-	-	-
11.1.20.6 Configure Spear Pod	*							-	-	-
11.1.20.7 Perform SPEAR pylon upload and download procedures	*							-	-	-
11.1.20.8 Perform SPEAR pod upload and download procedures	*							-	-	-
11.1.20.9 Perform 180 Day MAU-12 Inspection	*							-	-	-

EC-130 TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
11.1.20.10 Remove and Install MAU-12	*								-	-	-
11.1.20.11 Operation of 4100B trailer									-	-	-

## AVIONICS FUNDAMENTALS TRAINING REQUIREMENTS

I. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)		
	A	B	A	B	C	D	E	A	B	C
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level
								Course	CDC	CDC

### Attachment 12 – AVIONICS FUNDAMENTALS TRAINING REQUIREMENTS

NOTE 1: This attachment identifies the STS elements taught in the standardized Avionics Fundamentals course.

NOTE 2: Only proficiency level coded items in Column 4A are trained in the pre-requisite Avionics Fundamentals course.

NOTE 3: Users may annotate unique AFSC-specific devices or circuits not identified by this attachment IAW AFI 31-2221.

NOTE 4: All course requirements are trained in the 3-level resident course during wartime.

<b>12.1 AVIONICS SUPPORT SUBJECTS</b>											
12.1.1 Safety									B	-	-
12.1.2 First Aid									A	-	-
12.1.3 Electrostatic Discharge (ESD) Control									B	-	-
12.1.4 Electromagnetic Effects (EMP/EMI)									B	-	-
<b>12.1.5 Metric Notation</b>											
12.1.5.1 Powers of Ten									B	-	-
12.1.5.2 Electrical Prefixes									B	-	-
12.1.6 Digital Numbering systems									A	-	-
12.1.7 Common Tools									A	-	-
12.1.8 Technical Publications									A	-	-
12.1.9 Documentation									A	-	-
<b>12.2 TEST EQUIPMENT</b>											
12.2.1 Use Digital Multimeter									2b	-	-
12.2.2 Use Oscilloscope									2b	-	-
12.2.3 Wave Generators									A	-	-
<b>12.3 BASIC ELECTRICITY</b>											
12.3.1 Direct Current (DC)									B	-	-
12.3.2 Alternating Current (AC)									B	-	-
12.3.3 Resistance Theory									B	-	-
12.3.3.1 Measure Resistance									2b	-	-
12.3.4 Capacitance Theory									B	-	-
12.3.5 Inductance Theory									B	-	-
<b>12.4 Electromagnetic Devices</b>											
12.4.1 Transformers									B	-	-
<b>12.4.2 Relays and Solenoids</b>											
12.4.2.1 Theory									B	-	-
12.4.2.2 Troubleshoot Relay									2b	-	-
<b>12.4.3 Motor Theory</b>											
12.4.3.1 DC									A	-	-
12.4.3.2 AC									A	-	-
<b>12.4.4 Generator Theory</b>											
12.4.4.1 DC									A	-	-
12.4.4.2 AC									A	-	-
12.4.5 Synchro/Servo									B	-	-
12.4.6 Transducer									B	-	-
<b>12.5 Solid State Devices</b>											
12.5.1 Theory									A	-	-
12.5.2 Diodes (LED, Zener, etc)									A	-	-
12.5.3 Integrated Circuits									A	-	-
12.5.4 Operational Amplifiers									A	-	-
<b>12.6 Power Supply Circuits</b>											

## AVIONICS FUNDAMENTALS TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
12.6.1 Theory								B	-	-
12.7 Wave Generating Circuits										
12.7.1 Theory								A	-	-
12.8 Digital Logic Circuits										
12.8.1 Theory								A	-	-
12.8.2 Gates								A	-	-
12.8.3 Flip Flops								A	-	-
12.8.4 Digital to Analog and Analog to Digital Converters								A	-	-
12.9 Basic Computer & Network Fundamentals										
12.9.1 Theory								A	-	-
12.9.2 Network Components								A	-	-
12.9.3 Protocols								A	-	-
12.9.4 Topologies (Architecture)								A	-	-
12.10 Basic Communications										
12.10.1 Radio Frequency Theory								A	-	-
12.10.2 Frequency Spectrum								A	-	-
12.10.3 Modulation (AM/FM)								A	-	-
12.10.4 Demodulation (AM/FM)								A	-	-
12.10.5 Receivers/Transmitters								A	-	-
12.10.6 Transmission Mediums Theory								A	-	-
12.10.7 Waveguides								A	-	-
12.10.8 Data Buses								A	-	-
12.10.9 Fiber Optics								A	-	-
12.10.10 Coaxial Cables								A	-	-
12.10.11 Antennas								A	-	-
12.11 Assemble Solder Type Connections										
12.11.1 Terminal Connection								1b	-	-
12.11.2 Multipin Connector								1b	-	-
12.11.3 Coaxial Connector								1b	-	-
12.11.4 Desolder Procedures								1b	-	-
12.12 Assemble Solderless Type Connections										
12.12.1 Coaxial Connector								1b	-	-
12.12.2 Multipin Connector								1b	-	-
12.12.3 Twin-axial Connector (Data Bus)								1b	-	-
12.12.4 Crimped Connection										
12.12.4.1 Terminal Lugs								1b	-	-
12.12.4.2 Wire Splice								1b	-	-
12.12.5 Shield Termination								1b	-	-
12.13 General Maintenance Practices										
12.13.1 Assemble Multipin Connector Harness								1b	-	-
12.13.2 Secure Cable Harness								1b	-	-
12.13.3 Use Safety Wire								1b	-	-
12.13.4 Troubleshooting Procedures										
12.13.4.1 Isolate Wire Open								1b	-	-

## AVIONICS FUNDAMENTALS TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
12.13.4.2 Isolate Wire Short								1b	-	-
12.13.4.3 Isolate Voltage Fault on Multipin Connector Harness								1b	-	-
12.13.4.4 Isolate Crossed Connection on Multipin Connector Harness								1b	-	-

# STS 2AX7X

## AEROSPACE MAINTENANCE CRAFTSMAN

		4. Proficiency Codes Used To Indicate Training/Information Provided			
1. Tasks Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		Course	CDC	Course	CDC
<b>Attachment 13 – AEROSPACE MAINTENANCE CRAFTSMAN TRAINING REQUIREMENTS</b>					
NOTE 1: Columns 2 and 3 are deleted from this STS because all items are SUBJECT KNOWLEDGE LEVEL only and require no certification.					
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision.					
NOTE 3: This attachment is to be used in conjunction with other attachments in applicable CFETPs.					
NOTE 4: Personnel must complete CDC requirements on all MDSs/attachments.					
NOTE 5: This attachment is to be used as a correlation document for the 2AX7X 7-level Aerospace Maintenance Craftsman CDCs.					
13.1.	MAINTENANCE PHILOSOPHY AND POLICY				
13.1.1.	Aircraft and Equipment Readiness TR: AFI 21-101				A
13.1.2.	Maintenance Concept TR: AFI 21-101 and AFI 21-129				A
13.1.3.	Reliability and Maintainability (R&M) TR: AFI 21-101, AFI 21-118 and TO 00-35D-54				A
13.1.4.	Operating Instructions (OI) TR: AFI 21-101 and AFI 33-360				A
13.1.5.	Maintenance Information Systems (MIS) TR: AFCSM 21-556 Volume 2, AFI 21-101, AFI 21-116, and TO 00-20-2				B
13.1.6.	Maintenance Metrics TR: AFI 21-103 and AFTTP 3-3				A
13.1.7.	Maintenance Repair Priorities TR: AFI 21-101				A
13.1.8.	Historical Aircraft and Equipment Records TR: AFI 21-101 and TO 00-20-1				A
13.2.	MAINTENANCE ORGANIZATION KEY LEADER RESPONSIBILITIES				
13.2.1.	Wing Commander (WG/CC) TR: AFI 21-101 and AFI 38-101				A
13.2.2.	Wing Vice Commander (WG/CV) TR: AFI 21-101 and AFI 38-101				A
13.2.3.	Maintenance Group Commander (MXG/CC) TR: AFI 21-101 and AFI 38-101				A
13.2.4.	Maintenance Group Deputy Commander (MXG/CD) TR: AFI 21-101				A
13.2.5.	MXG Superintendent (SUPT) TR: AFI 21-101				A
13.2.6.	Squadron Commander (SQ/CC) TR: AFI 21-101				A
13.2.7.	Maintenance Operations Officer (MOO)/Maintenance Superintendent (MX SUPT) TR: AFI 21-101				A
13.2.8.	Flight Commander/Flight Chief TR: AFI 21-101				A
13.2.9.	AMU OIC/Superintendent (SUPT) TR: AFI 21-101				A
13.2.10.	Section NCOIC/Chief TR: AFI 21-101				B
13.2.11.	Production Superintendent (Pro Super) TR: AFI 21-101				A
13.3.	FUNCTIONS OF MAINTENANCE OPERATIONS SQUADRON (MOS)				

# STS 2AX7X

## AEROSPACE MAINTENANCE CRAFTSMAN

1. Tasks Knowledge And Technical References	4. Proficiency Codes Used To Indicate Training/Information Provided			
	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
	Course	CDC	Course	CDC
13.3.1. Maintenance Operations Flight (MOF) TR: AFI 21-101				A
13.3.2. Maintenance Training Flight (MTF) TR: AFI 21-101 and AFI 36-2232				A
13.3.3. Programs and Resources Flight TR: AFI 21-101				A
13.4. FUNCTIONS OF AIRCRAFT/HELICOPTER MAINTENANCE SQUADRON (AMXS/HMXS)				
13.4.1. Aircraft Maintenance Unit (AMU) TR: AFI 21-101				A
13.4.2. Flightline Expediter TR: AFI 21-101				A
13.4.3. Aircrew and Maintenance Debrief Section TR: AFI 21-101				A
13.4.4. Aircraft Section TR: AFI 21-101				A
13.4.5. Specialist Section TR: AFI 21-101				A
13.4.6. Weapons Section TR: AFI 21-101				A
13.4.7. Support Section TR: AFI 21-101				A
13.5. FUNCTIONS OF MAINTENANCE SQUADRON (MXS)				
13.5.1. Accessories Flight TR: AFI 21-101				A
13.5.2. Aerospace Ground Equipment (AGE) Flight TR: AFI 21-101				A
13.5.3. Armament Flight TR: AFI 21-101				A
13.5.4. Avionics Flight TR: AFI 21-101				A
13.5.5. Fabrication Flight TR: AFI 21-101				A
13.5.6. Maintenance Flight TR: AFI 21-101				A
13.5.7. Munitions Flight TR: AFI 21-101				A
13.5.8. Propulsion Flight TR: AFI 21-101				A
13.5.9. Test, Measurement, and Diagnostic Equipment (TMDE) Flight TR: AFI 21-101				A
13.6. MAINTENANCE TRAINING				
13.6.1 Types of Training TR: AFI 36-2232 and the ETCA site located at: <a href="https://etca.randolph.af.mil/">https://etca.randolph.af.mil/</a>				A
13.6.2. Training Documentation TR: AFI 21-101, AFI 36-2201 and AFI 36-2232				A
13.6.3. Training Business Area (TBA) TR: <a href="https://www.my.af.mil/imsdltpa/IMDSTWeb/ActionServlet">https://www.my.af.mil/imsdltpa/IMDSTWeb/ActionServlet</a>				B
13.6.4. Special Certification Rosters TR: AFI 21-101				A
13.6.5. Maintenance Qualification Program (MQP) TR: AFI 21-101, AFI 36-2232 and AFPD 10-9				A

# STS 2AX7X

## AEROSPACE MAINTENANCE CRAFTSMAN

1. Tasks Knowledge And Technical References	4. Proficiency Codes Used To Indicate Training/Information Provided			
	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
	Course	CDC	Course	CDC
13.6.6. Training Management TR: AFI 36-2201, AFI 36-2232, AFI 21-101 and AETCI 36-2601				
13.6.6.1. Training Forecast				A
13.6.6.2. Training Request				A
13.6.6.3. Master Training Plan				A
13.7. PERSONNEL RESOURCE MANAGEMENT				
13.7.1. Unit Manpower Document (UMD) and Unit Personnel Manpower Roster (UPMR) TR: AFI 36-2110, AFI 38-201 and AFTTP 3-3				A
13.7.2. Personnel Utilization TR: AFI 21-101				A
13.8. MAINTENANCE SUPPLY				
13.8.1. Logistics Readiness Squadron (LRS) Supply Support TR: AFI 21-101, AFMAN 23-110 (Vol. 1) and AFTTP 3-3				A
13.8.2. Readiness Spares Packages TR: AFI 21-101, AFMAN 23-110 and AFTTP 3-3				A
13.8.3. Consumables Management TR: AFI 21-101, AFMAN 23-110 and AFTTP 3-3				A
13.8.4. Equipment Items TR: AFI 21-101, AFMAN 23-110 and AFMAN 23-220				A
13.8.5. Supply Assets Requiring Functional Check, Calibration, or Operational Flight Programming TR: AFI 21-101, AFMAN 23-110 and TO 00-20-3				A
13.8.6. Precious Metals Recovery Program TR: AFI 21-101 and AFMAN 23-110				A
13.8.7. Supply Points TR: AFI 21-101 and AFMAN 23-110				A
13.8.8. Local Manufacture TR: AFI 21-101				A
13.8.9. Repair Cycle Assets TR: AFI 21-101 and AFMAN 23-110				A
13.8.10. Supply Management Products TR: AFI 21-101 and AFMAN 23-110				A
13.8.11. Tail Number Bins (TNB) TR: AFI 21-101 and AFMAN 23-110				A
13.8.12. Maintenance Repair/Supply Delivery Priorities TR: AFI 21-101 and AFMAN 23-110				A
13.8.13. Classified Assets TR: AFI 21-101, AFJI 31-102, TO 00-5-1 and TO 00-20-1				A
13.8.14. Hazardous Materials TR: AFI 21-101, AFI 32-7086 and AFI 90-821				A
13.8.15. Supply Deficiency and Discrepancy Reporting TR: AFI 21-101, AFMAN 23-110 and TO 00-35D-54				B
13.8.16. Special Handling of Supply Assets Containing Hazardous Materials TR: AFI 24-203, AFI 32-7086, AFMAN 23-110, TO 42B2-1-3, and TO 6J3-1-1				A
13.8.17. Maintenance Supply Liaison TR: AFI 21-101 and AFMAN 23-110				A
13.9. TECHNICAL ORDER MANAGEMENT				
13.9.1. Technical Orders Distribution Process TR: AFI 21-101, AFI 63-101, AFTTP 3-3 and TO 00-5-1				A

# STS 2AX7X

## AEROSPACE MAINTENANCE CRAFTSMAN

1. Tasks Knowledge And Technical References	4. Proficiency Codes Used To Indicate Training/Information Provided			
	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
	Course	CDC	Course	CDC
13.9.2. Time Compliance Technical Orders (TCTO) TR: TO 00-5-15				A
13.9.3. Technical Order Change Process TR: AFI 21-303				A
13.9.4. Technical Order Waivers TR: AFI 21-101 and AFI 21-303				A
13.10. MAINTENANCE REQUIREMENTS AND PROGRAMS				
13.10.1. Cannibalization Program TR: AFI 21-101 and AFTTP 3-3				A
13.10.2. Restricted Maintenance Areas TR: AFI 21-101				A
13.10.3. Red Ball Maintenance TR: AFI 21-101				A
13.10.4. Aircraft/Equipment Impoundment Program TR: AFI 21-101				A
13.10.5. Foreign Object Damage (FOD) Program TR: AFI 21-101, AFI 36-2232 and AFTTP 3-3				A
13.10.6. Dropped Object Prevention (DOP) Program TR: AFI 21-101				A
13.10.7. Tool Management TR: AFI 21-101				A
13.10.8. Tool Accountability TR: AFI 21-101				A
13.10.8.1. Marking and Tool Identification TR: AFI 21-101				A
13.10.8.2 Locally Manufactured, Developed, or Modified Tools and Equipment TR: AFI 21-101				A
13.10.8.3. Lost Item/Tool Procedures TR: AFI 21-101				A
13.10.9. Maintenance Recovery Team TR: AFI 21-101				A
13.11. QUALITY ASSURANCE (QA) PROGRAM				
13.11.1. Maintenance Standardization and Evaluation Program (MSEP) TR: AFI 21-101 and AFTTP 3-3				A
13.11.2. QA Product Improvement Program TR: AFI 21-101				A
13.11.3 Configuration Management (CM) and Modification Management TR: AFI 21-101				A