

AFSC 2A0X1A

**F-15 AVIONIC TEST STATION AND
AIRCRAFT COMPONENT
SPECIALTY**



**CAREER FIELD EDUCATION
AND TRAINING PLAN**

CAREER FIELD EDUCATION AND TRAINING PLAN
 F-15 AVIONIC TEST STATION AND AIRCRAFT COMPONENT SPECIALTY
 AFSC 2A0X1A

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Part I

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 this specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training. To read, review, or print a copy of current CFETP, go to the Aircraft Maintenance Homepage at: <http://www.il.hq.af.mil/ilm/ilmm/acmaint/ac-tng.html>.

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

2. The CFETP consists of two parts; both parts of the plan are used by supervisors to plan, manage, and control training within the career field.

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, training, and other). Section D indicates resource constraints. Some examples are funds, manpower, equipment, facilities. Section E identifies transition training guide requirements to support career field restructures.

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; wartime course requirements; core tasks; and correspondence course requirements. Section B contains the course objective list and training standards supervisors use to determine if airmen satisfied training requirements. Section C identifies available support materials. An example is a Qualification Training Package (QTP) developed to support proficiency training. These QTP packages are identified in AFIND8, *Numerical Index of Specialized Educational Training Publications*. Section D identifies a training course index supervisors use to determine resources available to support training; included here are both mandatory and optional courses. Section E identifies MAJCOM unique training requirements supervisors use to determine additional training requirements unique to the MAJCOM.

3. Using guidance provided in the CFETP will ensure individuals in this specialty receive effective and efficient training at the appropriate point in their career. This plan will enable us to train today's work force for tomorrow's jobs. 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 (AT). Formal course which provides individuals who are qualified in one or more positions of 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 the AFS.

Air Force Job Qualification Standard (AFJQS). A comprehensive task list which describes a particular job type or duty position. They are used by supervisors to document task qualifications. The tasks on AFJQS are common to all persons serving in the described duty position.

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 the commander assigns to determine an individual's ability to perform a task to required standards.

Continuation Training. Additional training exceeding requirements with emphasis on present or future duty assignments.

Core Task. A task Air Force Career Field Managers (AFCFMs) identify as a minimum qualification requirement within an Air Force Specialty regardless of duty position. Core task identified with an *R are optional for AFRC and ANG.

Course Objective List (COL). A publication identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3-, 5-, and 7-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations in accordance with AFI 36-2201, *Developing, Managing and Conducting Military Training Programs*.

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.

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 resident course which results in 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.

Mission Ready Technician. A formal course which results in an airman receiving hands-on training and task certification of selected tasks so the individual will be immediately productive upon arrival at their first duty section.

Occupational Survey Report (OSR). A detailed report showing the results of an occupational survey of tasks performed within a particular AFS.

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.

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

Qualification Training Package (QTP). An instructional package designed for use at the unit to qualify, or aid qualification, in a duty position or program, or on a piece of equipment. It may be printed, computer-based, or in other audiovisual media.

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

Specialized Training Package and COMSEC Qualification Training Package. A composite of lesson plans, test material, instructions, policy, doctrine, and procedures necessary to conduct training. These packages are prepared by AETC, approved by National Security Agency (NSA), and administered by qualified communications security (COMSEC) maintenance personnel.

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 the Air Education and Training Command and the functional user to show which of the overall training requirements for an Air Force Specialty Code are taught in formal schools, career development courses, and exportable courses.

Training Impact Decision System (TIDES). A computer-based decision support technology being designed to assist AFCFMs in making critical judgments relevant to what training should be provided personnel within career fields, when training should be provided (at what career points), and where training should be conducted (training setting).

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 of MAJCOM Air Force Specialty Code (AFSC) Functional Managers, Subject Matter Experts (SMEs), and AETC training personnel that determines career ladder training requirements.

SECTION A - GENERAL INFORMATION

1. Purpose. This CFETP provides the information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective career field training program. This plan outlines the training that individuals in AFSC 2A0X1A should receive to develop and progress throughout their career. This CFETP identifies initial skills, upgrade, qualification, advanced, and proficiency training. Initial skills training is the AFS specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. This training is conducted by AETC at Sheppard AFB TX. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 3-, 5-, 7-, and 9-skill levels. Qualification training is 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 skills/knowledge required to do the job. Advanced training is formal specialty training used for selected airmen. Proficiency training is 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. The CFETP has several purposes, some are:

- 1.1. Serves as a management tool to plan, manage, conduct, and evaluate a career field training program. Also, it is used to help supervisors identify training at the appropriate point in an individual's career.
- 1.2. Identifies tasks and knowledge training requirements for each skill level in the specialty and recommends education/training throughout each phase of an individual's career.
- 1.3. Lists training courses available in the specialty and identifies sources of training, and the training delivery method.
- 1.4. Identifies major resource constraints which impact full implementation of the desired career field training process.

2. Uses. 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/revise formal resident, non-resident, Training Detachment (TD), 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 the resources needed to provide the identified training.

2.2. MFMs 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 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. The AFCFM is the approving authority. The using MAJCOM representatives and AETC training personnel will identify and coordinate on the career field training requirements. The AETC training manager for AFSC 2A0X1A will initiate an annual review of this document by AETC and MAJCOM AFSC functional managers to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training.

Section B - Career Progression And Information

4. Specialty Description

4.1. **Specialty Summary.** Performs and manages avionics test station functions and activities. Operates, inspects, maintains, programs, and calibrates computer and manually operated avionic test equipment, associated support equipment (SE), and aircraft avionic systems components. Related DoD Occupational Subgroup: 198.

4.2. Duties and Responsibilities:

4.2.1. Analyzes performance and isolates malfunctions of avionic test equipment, SE, and aircraft components. Performs operational tests on test equipment, SE, and aircraft components to determine condition, analyze performance, and isolate malfunctions in the radar, communications, weapons control, electronic warfare, and flight control systems. Traces logic, schematic, test flow, and wiring diagrams. Uses self-test and software functions, computer and manually operated avionic test equipment, SE, and test measurement and diagnostic equipment (TMDE) to determine the scope of repair and adjustment required.

4.2.2. Inspects, maintains, programs, and calibrates avionic equipment, SE, and aircraft components. Removes and replaces assembly components using hand tools, soldering devices, and electronic instruments. Repairs wiring harnesses and interconnecting cables. Services, replaces, and cleans filtration and cooling components, and performs maintenance on avionics SE. Repairs oscillator, amplifier, waveshaping, and logic circuits; microwave equipment; servomechanisms; radio frequency circuits; video displays; and power supply circuits. Loads computer programs. Aligns, calibrates, and modifies avionics test equipment, SE, and aircraft components.

4.2.3. Manages integrated avionics activities and complies with directives, policies, and procedures. Complies with maintenance standards. Initiates deficiency reports, maintenance analysis documents, technical data changes, and equipment records. Interprets, establishes, and complies with training, security, and safety standards. Ensures compliance with directives governing handling, use, and disposal of hazardous waste and material. Records information on data collection forms and automated systems. Directs and controls maintenance and inspection of integrated avionics test stations and aircraft components.

4.2.4. Plans and organizes integrated avionics activities. Plans and organizes integrated avionics equipment assembly, calibration, repair, modification, and maintenance activities. Plans physical layout of facilities, and ensures SE and spare parts availability.

5. Skill/Career Progression.

5.1. Adequate training and timely progression from the apprentice to the superintendent skill level plays an extremely important role in the Air Force's ability to accomplish its mission. It is essential

for everyone involved in training to 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 necessary training at appropriate points in their career.

5.2. Apprentice (3) Level Upon completion of initial skills training, a trainee will work with a trainer to enhance knowledge and skills. They will utilize CDCs, Task Qualification Training, and any other courses to ensure progress in the career field.

5.3. Journeyman (5) Once upgraded to the 5-level, journeymen will enter into continuation training to broaden their experience base. Supervisors should ensure 5-levels complete all available FTD/AETC system cross-over courses, and MAJCOM specific training. Individuals will attend the Airman Leadership School (ALS) after having 48 months in the Air Force. Individuals will use their CDCs to prepare for testing under Weighted Airman Promotion System (WAPS). They should also consider continuing their education toward a Community College of the Air Force (CCAF) degree. Five-levels may be assigned job positions such as Quality Assurance, dispatch, and various staff positions.

5.4. Craftsman (7) Level A craftsman can expect to fill various supervisory and management positions such as shift leader, element chief, flight chief, or task certifier. They may also be assigned to work in staff positions. Seven-levels should take courses or obtain added knowledge on management of resources and personnel and attend the 7-level resident courses. When promoted to TSgt, individuals will attend the Noncommissioned Officer Academy.

5.5. Superintendent (9) Level A 9-level can expect to fill positions such as Flight NCOIC, Production Superintendent, and various staff NCOIC jobs. Additional training in the areas of budget, manpower, resources, and personnel management should be pursued through continuing education. Individuals promoted to SMSgt will attend the Senior Noncommissioned Officer Academy. Additional higher education and completion of courses outside their career AFSC are also highly recommended.

6. Training Decisions The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the F-15 Avionic Test Station and Aircraft Component 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. It was determined that all Core Tasks will be mandatory for upgrade to both the 5 and 7 skill level. This will ensure that all personnel will be exposed to each test station available at their location. This CFETP removes all references to the F-111 aircraft. The following training decisions were made at the AFSC Utilization and Training Workshop (U&TW) held at Sheppard AFB, Tx 1 - 12 Jun 98.

6.1 Initial Skills Training. The Working Group decided to revise the existing resident course J3ABR2A031A 001. Some of the changes to the existing course includes Environmental Protection Agency certification for handling of freon and additional troubleshooting information for the Coolant Conditioning Unit. The new course (J3ABR2A031A 003) will be on line in November 1999.

6.2 Five Level Upgrade Requirements. The 5-level CDCs were revised to add needed material. The STS was re-accomplished to provide additional training and identify core tasks for upgrade to the 5-level. Completion of CAMS course J6AZU00066-058 is also mandatory.

6.3 Seven Level Upgrade Requirements. Formal 7-level training consists of a 7-Level Career Development Course (CDC), CAMS course J6AZU00066-062 and one in resident course. The

7-level CDCs will provide enhanced knowledge of management within the maintenance complex, enlisted specialty training, accountability for records, supply management, and logistics and resource management. The 7-level in residence course was designed to provide training on management and supervisory skills, system integration, advanced use of test equipment, and advanced troubleshooting techniques to identify and repair the most difficult systems problems experienced in the field.

6.4 Proficiency Training. Any additional knowledge and skill requirements which were not taught through initial skills or upgrade training were assigned to continuation training. The purpose of the continuation training program is to provide additional training exceeding minimum upgrade training requirements with emphasis on present and future duty positions. MAJCOMs develop a continuation training program that ensures individuals in the career field receive the necessary training at the appropriate point in their career. The training program identifies both mandatory and optional training requirements.

7. Community College of the Air Force. Enrollment in CCAF occurs upon completion of basic military training. CCAF provides the opportunity to obtain an Associates in Applied Sciences Degree. The Avionics Systems Technology (4VHS) program applies to AFSC 2A0X1A. In addition to its associates degree program, CCAF offers the following:

7.1. Occupational Instructor Certification. Upon completion of instructor qualification training, consisting of the instructor methods course and supervised practice teaching, CCAF instructors who possess an associates degree or higher may be nominated by their school commander/commandant for certification as an occupational instructor.

7.2. Trade Skill Certification. When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.

7.3. Degree Requirements. All airmen are automatically entered into the CCAF program. Prior to completing an associates 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

7.3.1. Technical Education (24 Semester Hours): A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective courses.

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

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

7.3.4. **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.

7.3.5. **Program Elective** (15 Semester Hours): Satisfied with applicable Technical Education; Leadership, Management, and Military Studies; or General Education subjects/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.

7.4. Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an Air Education and Training Command Instructor should be actively pursuing an associates degree. 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 A8.1 identifies career milestones for the 2A0X1A Air Force Specialty.

Table 8.1 Enlisted Career Path				
Education and Training Requirements	Grade Requirements			
	Rank	Average Sew-On	Earliest Sew-On	High Year Of Tenure (HYT)
Basic Military Training School				
Apprentice Technical School (3-Skill Level)	Amn A1C	6 months 16 months		
Upgrade To Journeyman (5-Skill Level) - Minimum 15 months on-the-job training. - 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	10 Years
Airman Leadership School (ALS) - 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).				
Trainer - Qualified and certified to perform the task to be trained. - Have attended the formal trainer's course and appointed in writing by Commander.			Certifier - Be at least a 5-skill level SSgt; and qualified and certified to perform the task being certified - Attend formal certifier course and appointed in writing by Commander. - Be a person other than the trainer.	
Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt. - Complete all 5- and 7-level core tasks on one MDS. - 18 months OJT. - Complete appropriate CDC if/when available. - Advanced Technical School.	SSgt	7.5 years	3 years	20 Years
Noncommissioned Officer Academy (NCOA) - Must be a TSgt or TSgt Selectee. - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt MSgt	12.5 years 16 years	5 years 8 years	20 Years 24 Years
USAF Senior NCO Academy (SNCOA) - Must be a SMSgt or SMSgt Selectee. - A percentage of top nonselect (for promotion to E-8) MSgts attend the SNCOA each year. - Resident graduation is a prerequisite for CMSgt sew-on (Active Duty Only).	SMSgt	19.2 years	11 years	26 Years
Upgrade To Superintendent (9-Skill Level) - Minimum rank of SMSgt. - Must be a resident graduate of SNCOA (Active Duty Only).	CMSgt	21.5 years	14 years	30 Years

8.2. Base/Unit Education and Training Manager Checklist:

Table A8.2. Base/Unit Education and Training Manager Checklist		
Requirements for Upgrade to:	Y	N
<p>Journeyman</p> <ul style="list-style-type: none"> - Has the apprentice completed mandatory CDCs, if available? - Has the apprentice completed CAMS course J6AZU00066-058? - Has the apprentice completed all appropriate 5-level core tasks identified in the CFETP? - Has the apprentice completed all other duty position tasks identified by the supervisor? - Has the apprentice completed 18 months training (3 month apprenticeship plus 15 months OJT) for award of the 5-skill level? <ul style="list-style-type: none"> -- Exception: Is the apprentice in retraining status (TSC 'F')? If yes, they must complete a minimum of 6 months UGT. - Has the apprentice met mandatory requirements listed in specialty description, AFMAN 36-2108 (Airman Classification), and CFETP? - Has the apprentice been recommended by their supervisor? 		
<p>Craftsman</p> <ul style="list-style-type: none"> - Has the journeyman achieved the rank of SSgt? - Has the journeyman completed mandatory CDCs? - Has the journeyman completed CAMS course J6AZU00066-062? - Has the journeyman completed all 5 and 7-level core tasks identified in the CFETP? - Has the journeyman completed all other duty position tasks identified by the supervisor? - Has the journeyman attended 7-skill level Craftsman Course? First, they must complete: <ul style="list-style-type: none"> -- All 5 and 7-level training requirements listed in the CFETP. -- All applicable CDCs. -- A minimum of 12 months UGT (6 months for retrainees). - Has the journeyman completed a minimum 18 months UGT for award of the 7-skill level? <ul style="list-style-type: none"> -- Exception: Is the journeyman in retraining status (TSC 'G')? If yes, they must complete a minimum 12 months. 		

TO: Squadron/CC
 FROM: Squadron Training Manager
 SUBJECT: Upgrade Trainee

Trainee is prepared to be upgraded and has completed all training requirements.

Training Manager

Supervisor

Section C - Skill Level Training Requirements

9. Purpose. Skill level training requirements in this career field 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 task and knowledge training requirements are identified in the STS at Part II, Sections A and B of this CFETP.

10. Specialty Qualification:

10.1. Apprentice Level Training:

10.1.1. Specialty Qualification. To perform duties at the apprentice level, an individual must be able to understand basic system theory of operation and be able to perform certain tasks under close supervision until task certification.

10.1.1.1. Knowledge. Knowledge is mandatory of: electrical theory and electronic fundamentals, including solid-state, binary, digital, octal, and hexadecimal numbering systems; Boolean algebra; computer logic, and programming principles and language; printed circuitry; microwave principles; microminiature solid state devices; operating principles of avionic components supported by test stations; electrically actuated mechanical device theory; operating principles of basic measuring and testing devices; interpreting schematic, logic, data flow, and wiring diagrams; interpreting programming tables and technical publications; using, caring for, and applying special, standard, and common hand tools; interpreting testing, measuring, and referencing devices; concepts and application of applicable maintenance directives; Air Force supply procedures; use and disposal of hazardous waste and material; must be qualified to remove and install system Tester Replaceable Units (TRUs) and Shop Replaceable Units (SRUs); perform operational checks of avionic test equipment, support equipment (SE), and aircraft system components; trace signal/data flow of system schematic diagrams; and document maintenance actions in the automated data system.

10.1.1.2. Education. Completion of high school is desirable with courses in physics, algebra, trigonometry, and computer principles.

10.1.1.3. Training. For award of AFSC 2A031A, completion of the applicable suffix basic avionics test station and components course is mandatory.

10.1.1.4. Experience. None.

10.1.1.5. Other. The following are mandatory as indicated:

10.1.1.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123.

10.1.1.5.2. For award and retention of AFSC 2A031X/51X/71X/2A190 or 2A000, eligibility for a Secret security clearance according to AFI 31-501.

10.1.2. Training Sources and Resources. The initial skills courses will provide the required knowledge and qualifications. Initial skills training encompasses electronic principles, test station theory and operation, component repair, component removal and installation, introduction to maintenance concepts, general shop maintenance practices, use of technical publications, maintenance documentation, and support equipment familiarization and use.

10.1.3. Implementation. Upon graduation from Basic Military Training, airmen are assigned to the training center at Lackland for completion of Course L3AQR2A031A 125, Electronic Principles, then to Sheppard AFB for Course J3ABR2A031A 003, F-15 Avionic Test Station and Aircraft Component Apprentice. Completion of this course will result in award of the 3-skill level.

10.2. Journeyman Level Training:

10.2.1 **Specialty Qualification.** In addition to the 3-level qualifications, an individual must possess knowledge and skills necessary to analyze performance and isolate basic malfunctions of avionic test stations, SE, and aircraft components.

10.2.1.1. **Knowledge.** Knowledge is mandatory of: electrical theory and electronic fundamentals, including solid-state, binary, digital, octal, and hexadecimal numbering systems; Boolean algebra; computer logic, and programming principles and language; printed circuitry; microwave principles; microminiature solid state devices; operating principles of avionic components supported by test stations; electrically actuated mechanical device theory; operating principles of basic measuring and testing devices; interpreting schematic, logic, data flow, and wiring diagrams; interpreting programming tables and technical publications; using, caring for, and applying special, standard, and common hand tools; interpreting testing, measuring, and referencing devices; concepts and application of applicable maintenance directives; Air Force supply procedures; and use and disposal of hazardous waste and material. In addition, a 5-level must be task qualified on inspecting avionic test stations, SE, and aircraft system components; removing and installing system TRUs and SRUs; isolating and correcting basic equipment malfunctions; troubleshooting avionic test stations, SE, and aircraft system components; and repairing and replacing system wiring and other electrical components. They must also be able to perform self-test, calibration, and operational checks on avionic test stations, SE, and aircraft system components; use and care for test and support equipment; and modify and reprogram avionic test stations, SE, and aircraft systems components.

10.2.1.2. **Education.** Completion of high school is desirable with courses in physics, algebra, trigonometry, and computer principles.

10.2.1.3. **Training.** For award of AFSC 2A051A, completion of 5-level CDCs and CAMS course J6AZU00066-58 is mandatory.

10.2.1.4. **Experience.** Qualification in and possession of AFSC 2A031A. Also, experience in functions such as identifying performance and isolating malfunctions encountered with avionic components; using and repairing avionic electrical, electronic, and mechanical equipment; or aligning and calibrating avionic test stations and SE.

10.2.1.5. **Other.** The following are mandatory as indicated:

10.2.1.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123.

10.2.1.5.1. For award and retention of AFSC 2A031X/51X/71X/2A190 or 2A000, eligibility for a Secret security clearance according to AFI 31-501.

10.2.2. **Training Sources and Resources.** The 5-level CDCs provide career knowledge training. Qualification Training (QT) and OJT will provide training and qualification on the core tasks identified in the STS, or AFJQS. CDCs are written to build from the trainee's current knowledge base, and provide more in-depth knowledge to support OJT requirements.

10.2.3. **Implementation.** Training to the 5-level is performed by the units utilizing the STS/JQS, exportable courses, and CDCs. Upgrade to the 5-level requires completion of the 2A051 and 2A051A CDCs, completion of CAMS course J6AZU00066-058, completion of all applicable 5-level core tasks. Tasks not identified as core tasks or duty position/work center related should be completed as part of continuation training when tasks become available.

10.3. Craftsman Level Training:

10.3.1 **Specialty Qualification.** In addition to the 5-level qualifications, an individual must possess advanced electronic skills and knowledge necessary to analyze performance and isolate complex malfunctions of avionic test stations, SE, and aircraft system components.

10.3.1.1. **Knowledge.** Knowledge is mandatory of: electrical theory and electronic fundamentals, including solid-state, binary, digital, octal, and hexadecimal numbering systems; Boolean algebra; computer logic, and programming principles and language; printed circuitry; microwave principles; microminiature solid state devices; operating principles of avionic components supported by test stations; electrically actuated mechanical device theory; operating principles of basic measuring and testing devices; interpreting schematic, logic, data flow, and wiring diagrams; interpreting programming tables and technical publications; using, caring for, and applying special, standard, and common hand tools; interpreting testing, measuring, and referencing devices; concepts and application of applicable maintenance directives; Air Force supply procedures; and use and disposal of hazardous waste and material. In addition, a 7-level must be able to supervise and use resources to ensure effective planning, scheduling, and maintenance; and be task qualified on advanced repair, modification, inspection, and certification of avionic test stations, SE, and aircraft system components. Qualification is also required on component and system fault isolation; repair requirements and evaluation; and historical data analysis.

10.3.1.2. **Education.** Completion of high school is desirable with courses in physics, algebra, trigonometry, and computer principles

10.3.1.3. **Training.** For award of AFSC 2A071A, completion of CDC 2AX7X, CAMS course J6AZU00066-062 and 7-level resident course is mandatory.

10.3.1.4. **Experience.** Qualification in and possession of AFSC 2A051A. Also, experience performing or supervising functions such as installing, inspecting, repairing, or overhauling avionic test stations and SE.

10.3.1.5. **Other.** The following are mandatory as indicated:

10.3.1.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123.

10.3.1.5.2. For award and retention of AFSC 2A031X/51X/71X/2A190 or 2A000, eligibility for a Secret security clearance according to AFI 31-501.

10.3.2. **Training Sources and Resources.** Seven level upgrade training will be conducted by certified trainers using applicable core tasks, unit/MAJCOM courses, 7-level CDCs, CAMS course J6AZU00066-062 and a 7-level resident course. The 7-level CDCs will provide enhanced knowledge of management within the maintenance complex, enlisted specialty training, accountability for records, supply management, and logistics and resource management. The 7-level resident course will provide advanced knowledge of troubleshooting, management and supervisory skills utilizing a Course Training Standard.

10.3.3. **Implementation.** Upon selection for promotion to SSgt, upgrade will begin. Upgrade to the 7-level will require completion of all 5-level and 7-level core tasks. Tasks not identified as core tasks or duty position/work center related should be completed as part of continuation training when tasks become available. Completion of the 7-level CDCs, 7-level resident course J3ACR2A071A 000, and 18 months OJT is also required. The CDCs must be completed before attending the resident course.

10.4. Superintendent Level Training:

10.4.1 **Specialty Qualification.** In addition to 7-level qualifications, individuals must possess advanced skills and knowledge of concepts and principles in the management of aircraft avionics systems.

10.4.1.1. **Knowledge.** Knowledge is mandatory of: electrical theory and electronic fundamentals, including solid-state, binary, digital, octal, and hexadecimal numbering systems; Boolean algebra; computer logic, and programming principles and language; printed circuitry; microwave principles; microminiature solid state devices; operating principles of avionic components supported by test stations; electrically actuated mechanical device theory; operating principles of basic measuring and testing devices; interpreting schematic, logic, data flow, and wiring diagrams; interpreting programming tables and technical publications; using, caring for, and applying special, standard, and common hand tools; interpreting testing, measuring, and referencing devices; concepts and application of applicable maintenance directives; Air Force supply procedures; and use and disposal of hazardous waste and material. In addition, a 9-level needs to be an effective leader; must be able to forecast, budget and manage funding and other assigned resources; and must be knowledgeable of all environmental standards and the procedures for the proper handling and disposal of hazardous materials and waste.

10.4.1.2. **Education.** Completion of high school is desirable with courses in physics, algebra, trigonometry, and computer principles.

10.4.1.3. **Training.** For award of AFSC 2A190, completion of applicable PME courses and promotion to SMSgt is mandatory.

10.4.1.4. **Experience.** Qualification in and possession of AFSC 2A071A. Also, experience managing avionics test station and components functions or activities.

10.4.1.5. **Other.** The following are mandatory as indicated:

10.4.1.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123.

10.4.1.5.2. For award and retention of AFSC 2A031X/51X/71X/2A190 or 2A000, eligibility for a Secret security clearance according to AFI 31-501.

10.4.2. **Training Sources/Resources.** The senior NCO Academy and unit OJT will be used for training.

10.4.3. **Implementation.** The 9-level will be awarded after completing MAJCOM requirements, unit OJT, promotion to SMSgt, and completion of the Senior NCO Academy.

Section D - Resource Constraints

11. Purpose. This section identifies known resource constraints which preclude optimal/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 Constraints.

12.1 Constraint: Technical School requires additional Line Replaceable Units (LRUs) and test equipment to support requested changes.

12.1.1 Impact: Some items will not be trained to the 2b level as requested.

12.1.2 Resources Required: Require one Heads Up Display Unit LRU and test package for ESTS.

12.1.3 Action Required: Procure necessary LRUs and equipment to support training objectives. Items will not be received until the ESTS has been fielded and accepted by the Air Force. (OPR: 365 TRS; Jan 2000)

13. Five Level Training Constraints. There are no 5-level constraints.

14. Seven-Level Training Constraints.

14.1 Constraint: Seven Level training will require additional equipment to support the PMEL conversion.

14.2 Impact: Without this equipment, training will not be provided to support PMEL capabilities within the career field.

14.3 Resources Required:

Obtain one PATEC after AF/ILMM approves the PMEL conversion. (OPR: 365TRS, OCR: AF/ILMM)

Manpower resources to support course extensions due to PMEL Conversion. (OPR: 365TRS, OCR: AETC/DOOI and AF/ILMM)

14.4 Action Required: Procure the necessary equipment to support training objectives. (OPR 365 TRS; Nov 1999)

Section E. Transitional Training Guide

The purpose of the training plan is to define personnel training requirements to transition the career field to calibration of the test stations.

2A0X1A: Training of current test station personnel to calibrate the test station will be via OJT and the supplemental 5/7-level course. Qualified 2P0X1 personnel will train 2A0X1 personnel. Test Station supervisors will ensure personnel are qualified to assume the workload within 12 months following transfer of the work. The 3-level course will extend approximately 54 hours and will begin about 90 days following AF/ILMM approval of development. A trailer extension of the 7-level course will extend the course about 80 hours (this will extend the course to 20 days). ANG and AFRC personnel will attend the standard 10 day course. ANG/AFRC may elect to send their personnel to the full 20 day course. This course will also be available as a supplemental course. The 7-level PMEL course will be available within 120 days after AF/ILMM approves development. Equipment constraints for the PMEL impacts will be a PATEC and SWDS.

2P0X1: Any 2P0X1 personnel retraining to 2A0X1A will require initial skills training and normal career progression. There will be no requirement for 2P0X1 personnel to attend the Electronic Principles course at Lackland AFB.

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) for classes beginning Nov 99.

2. Purpose. As prescribed in AFI 36-2201, 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. Core tasks identified with an *R are optional for the AFRC and the ANG. As a minimum, certification on all core tasks applicable to the specialty must be completed for skill level upgrade. Exemptions:

2.2.1. Core tasks which 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 MDS aircraft, upgrade trainees need only complete core tasks on a single MDS. MFMs, unit commanders, and/or supervisors may require trainees to complete core task training on additional MDSs, 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 MDS. All units are bound by the requirements in this CFETP and will accommodate core task trainees from other units.

2.2.3. Units which use the GO81 maintenance data collection system do not need to complete Core Automated Maintenance System (CAMS) Computer Based Training (CBT) core tasks. However, these units must be capable of training CAMS related CBT core tasks for deployment preparation. This capability ensures GO81 users are capable of operating CAMS prior to deploying to CAMS using units.

2.3. Provides certification for OJT. Column 3 is used to record completion of tasks and knowledge training requirements. Use automated training management systems to document technician qualifications, if available. Task certification must show a certification 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. When two codes are used in columns 4A and 4C(1) (e.g. 2b/b), the first code is the established requirement for resident training on the task/knowledge, and the second code indicates the level of training provided in the course due to equipment shortages or other resource constraints. See CADRE/AFSC/CDC listing maintained by the unit training manager for current CDC listing.

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. 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 AFMAN 36-2247, Chapter 5. Automated records, utilizing Core Automated Management System (CAMS) or Integrated Maintenance Data System (IMDS)/Global Combat Support System (GCSS), reflecting this STS may be used and are highly encouraged. Use of the entire CFETP in training records is required. Identify duty position requirements by circling (in pencil) the subparagraph number next to the task statement. As a minimum, complete the following columns in Part 2 of the CFETP: date training completed, trainee initials, trainer initials, and certifier initials (core tasks only). Trainers may sign off non-core and non-critical tasks by initialing the trainer's column; third party certification is not required for non-core and non-critical tasks. There are no approved AFJQS for this AFSC.

2.6.1.1. Converting from Old Document to CFETP. All AFJQSs and previous CFETPs are replaced by this CFETP; therefore, conversion 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.

2.6.1.1.1. For those core and critical tasks previously certified and required in the current duty position, evaluate current qualifications and when verified, recertify using current date as completion date, and enter trainee's and certifier's initials. Remember, during the transcription process no training is taking place. Therefore, the trainer's initials are not required.

2.6.1.1.2. For non-core and non-critical tasks previously certified and required in the current duty position, evaluate current qualifications and when verified, recertify using current date as completion date, and enter trainee's and trainer's initials.

2.6.1.1.3. When transcribing previous certification for tasks not required in the current duty position, carry forward only the previous completion date of certification (not the initials of another person). If and when transcribed tasks become duty position requirements, recertify using standard certification procedures.

2.6.1.1.4. The person whose initials appear in the trainer or certifier block during the transcription process must meet the requirements of their respective roles.

2.6.1.1.5. Upon completion of the transcription process, give the old CFETP to the member.

2.6.1.2. Documenting Career Knowledge. When a CDC is not available: the supervisor identifies CFETP Part II training references that the trainee requires for career knowledge and ensures, as a minimum, that trainees cover the mandatory items in AFMAN 36-2108. For two-time CDC course exam failures: Supervisors identify all Part II items corresponding to the areas covered by the CDC. The trainee completes a study of references, undergoes evaluation by the task certifier, and receives certification on the CFETP Part II. **Supervisors must document successful completion of career knowledge prior to submission of a CDC waiver.**

2.6.1.3. Decertification and Recertification. When an airman is found to be unqualified on a task previously certified for his or her position, the supervisor lines through the previous certification or deletes previous certification when using automated system. Appropriate remarks are entered on the AF Form 623a, **On-The-Job Training Record Continuation Sheet**, as to the reason for decertification. The individual is recertified (if required) either by erasing the old entries and writing in the new or by using correction fluid/tape (if the entries were made in ink) over the previously certified entry.

2.6.2. AF Form 797. When additional items not listed in the CFETP Part II are necessary in the current duty assignment, enter them on the AF Form 797. Fill out the form IAW AFMAN 36-2247.

2.6.3. Disposition of Training Records. Upon separation, retirement, commissioning, or promotion to Master Sergeant (unless otherwise directed by the AFCFM, MAJCOM, unit commander, or supervisor), give the individual their training records. Also, give individuals outdated training records after transcribing records. Do not remove any training records that show past qualifications unless transcribed to a new CFETP/AFJQS. For example, an individual working in a tool crib must maintain documented career field qualifications in case they return to duty on the flightline or in the shop. Supervisors must exercise good judgment when removing training records not needed in current duty positions.

2.7. Specialty Training Standard. Is 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 chapter 14 of AFI 36-2606, *US Air Force Reenlistment, Retention, and NCO Status Programs*. WAPS is not applicable to the Air National Guard or Air Force Reserve.

3. Recommendations. Report unsatisfactory performance of individual course graduates to the AETC training manager at 365 TRS/TRR, 609 9th Avenue Stop 242, Sheppard AFB TX, 76311-2335, DSN 736-7891. Reference specific STS paragraphs. For a quick response to problems, call our customer service information line, DSN 736-2574.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

JOHN W. HANDY, Lieutenant General, USAF
DCS/Installations and Logistics

4 Attachments

1. Proficiency Code Key
2. Common 2A0X1 Training Requirements
3. 2A0X1A Training Requirements
4. Electronic Principles Requirements

PROFICIENCY CODE KEY

STS 2A0X1A

Name Of Trainee		
Printed Name (<i>Last, First, Middle Initial</i>)	Initials (Written)	SSAN
<i>Printed Name Of Training/Certifying Official And Written Initials</i>		
<i>N/I</i>	<i>N/I</i>	

QUALITATIVE REQUIREMENTS

Proficiency Code Key		
	Scale Value	Definition: The individual
Task Performance Levels	1	IS EXTREMELY LIMITED (Can do simple parts of the task. Needs to be told or shown how to do most of the task.)
	2	IS PARTIALLY PROFICIENT (Can do most parts of the task. Needs only help on hardest parts.)
	3	IS COMPETENT (Can do all parts of the task. Needs only a spot check of completed work.)
	4	IS HIGHLY PROFICIENT (Can do the complete task quickly and accurately. Can tell or show others how to do the task.)
*Task Knowledge Levels	a	KNOWS NOMENCLATURE (Can name parts, tools, and simple facts about the task.)
	b	KNOWS PROCEDURES (Can determine step by step procedures for doing the task.)
	c	KNOWS OPERATING PRINCIPLES (Can identify why and when the task must be done and why each step is needed.)
	d	KNOWS ADVANCED THEORY (Can predict, isolate, and resolve problems about the task.)
**Subject Knowledge Levels	A	KNOWS FACTS (Can identify basic facts and terms about the subject.)
	B	KNOWS PRINCIPLES (Can identify relationship of basic facts and state general principles about the subject.)
	C	KNOWS ANALYSIS (Can analyze facts and principles and draw conclusions about the subject.)
	D	KNOWS EVALUATION (Can evaluate conditions and make proper decisions about the subject.)
<p>Explanations</p> <p>* 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)</p> <p>** 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.</p> <p>- This mark is used alone instead of a scale value to show that no proficiency training is provided in the courses or CDCs.</p> <p>/ This mark is used in course columns to show that training is required but not given/reduced due to limitations in resources (3c/b, 2b/b, 3c/-, etc.).</p> <p>Note: All course requirements are trained in the 3-level resident wartime course. The 7 level in-residence course is not taught in wartime.</p>		

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7 level in-residence course is not taught in wartime.											
NOTE 2: Core Tasks are identified by an asterisk (*) in the appropriate column. Core tasks identified with an *R are optional for ANG and AFRC.											
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7891.											
A2.1.	CAREER LADDER STRUCTURE TR: AFMAN 36-2108; AFVA 39-1							-	-	-	-
A2.2.	SUPERVISION AND TRAINING										
A2.2.1.	Supervision										
A2.2.1.1.	Orient new personnel TR: AFMAN 36-2108; AFI 36-2201, 36-2103							-	-	-	-
A2.2.1.2.	Obtain information for special requisitions TR: AFI 21-101							-	-	-	-
A2.2.1.3.	Statement of charges TR: DODR7000-14V4, DOD 7200.1							-	-	-	-
A2.2.1.4.	Report of survey TR: DODR7000-14V4, DOD 7200.1							-	-	-	-
A2.2.1.5.	Coordinate work with others TR: 21-101, and applicable command directives							-	-	-	-
A2.2.1.6.	Recommend/Establish: TR: AFI 21-101, and applicable Command directives										
A2.2.1.6.1.	Work methods							-	-	-	-
A2.2.1.6.2.	Controls							-	-	-	-
A2.2.1.6.3.	Performance standards							-	-	-	-
A2.2.1.7.	Plan: TR: AFI 21-101, and applicable command directives										
A2.2.1.7.1.	Work assignments							-	-	-	-
A2.2.1.7.2.	Work priorities							-	-	-	-

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
A2.2.1.8. Schedule: TR: AFI 21-101, and applicable command directives											
A2.2.1.8.1. Work assignments								-	-	-	-
A2.2.1.8.2. Work priorities								-	-	-	-
A2.2.1.8.3. Other activities such as ancillary training, staff meetings, and leave time								-	-	-	-
A2.2.1.9. Assign: TR: AFI 21-101, and applicable command directives											
A2.2.1.9.1. Maintenance repair work								-	-	-	-
A2.2.1.9.2. Personnel to positions								-	-	-	-
A2.2.1.10. Supervise repair personnel accomplishing: TR: AFI 21-101, and applicable command directives											
A2.2.1.10.1. Maintenance								-	-	-	-
A2.2.1.10.2. Inspection								-	-	-	-
A2.2.1.11. Analyze maintenance and inspection reports and charts TR: AFI 21-101, and applicable command directives								-	-	-	-
A2.2.1.12. Prepare: TR: AFI 21-101, and applicable command directives											
A2.2.1.12.1. Maintenance and inspection reports and charts								-	-	-	-
A2.2.1.12.2. Organizational and functional charts								-	-	-	-
A2.2.1.13. Justify: TR: AFI 21-101, and applicable command directives											
A2.2.1.13.1. Personnel								-	-	-	-
A2.2.1.13.2. Equipment								-	-	-	-
A2.2.1.14. Evaluate work performance of personnel: TR: AFI 36-2403											
A2.2.1.14.1. Performing maintenance								-	-	-	-

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
A2.2.1.14.2. Performing inspections								-	-	-	-
A2.2.1.15. Perform self-assessments								-	-	-	A
A2.2.2. Training TR: AFI 36-2201											
A2.2.2.1. Career Field Education and Training Plan (CFETP)								-	-	-	B
A2.2.2.2. Specialty Training Standard (STS)								-	-	-	B
A2.2.2.3. Occupational Survey Report (OSR)								-	-	-	B
A2.2.2.4. Utilization and Training Workshop (UT&W)								-	-	-	B
A2.2.2.5. Evaluate personnel to determine need for training								-	-	-	-
A2.2.2.6. Plan and supervise Enlisted Specialty Training (EST)											
A2.2.2.6.1. Prepare job qualification standards								-	-	2b	-
A2.2.2.6.2. Conduct training								-	-	-	-
A2.2.2.6.3. Counsel trainees on their progress								-	-	-	-
A2.2.2.6.4. Monitor effectiveness of training											
A2.2.2.6.4.1. Career knowledge upgrade								-	-	-	-
A2.2.2.6.4.2. Job proficiency upgrade								-	-	-	-
A2.2.2.6.4.3. Qualification								-	-	-	-
A2.2.2.7. Maintain training records								-	-	3c	B
A2.2.2.8. Evaluate effectiveness of training programs											
A2.2.2.8.1. Resident Training								-	-	C	-
A2.2.2.8.2. On-The-Job Training								-	-	-	-
A2.2.2.9. Recommend personnel for training TR: AFIs 36-2101, 36-2201; AFCAT 36-2223								-	-	-	-
A2.2.2.10. Schedule training								-	-	-	-

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
A2.2.2.11. OJT trainer requirements											
A2.2.2.11.1. Prepare teaching outlines or task breakdowns								-	-	-	-
A2.2.2.11.2. Provide trainees theory and train on actual equipment								-	-	-	-
A2.2.2.11.3. Provide feedback on training provided								-	-	-	-
A2.2.2.12. OJT task certifier requirements											
A2.2.2.12.1. Develop methods of evaluation to determine trainee knowledge/qualification, and training effectiveness								-	-	-	-
A2.2.2.12.2. Use appropriate method of evaluation and effectively determine trainee's ability								-	-	-	-
A2.2.2.12.3. Provide supervisor and trainer feedback on results of training provided, and trainee's strengths/weaknesses								-	-	-	-
A2.2.2.13. Perform task certification								-	-	-	-
A2.3. SECURITY											
A2.3.1. Classification of information								A	-	-	-
A2.3.2. Prevent security violations								b	-	-	-
A2.3.3. C ⁴ Systems Security								A	-	-	-
A2.3.4. Destruction of classified information								A	-	-	-
A2.3.5. Specific vulnerabilities of AFSC 2A0X1								A	-	-	-
A2.3.6. Physical security TR: AFI 31-101V1, DODR 5200-8								A	-	-	-

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC	
A2.4. AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: AFIs 23-502, 91-301; AFOSH STDs 127-1, 127-2, 127-11, 127-31, 127-38, 127-39, 127-43, 127-50, 127-56, 127-66, 161-6, 161-8, 161-9, 161-10, 161-21; TOs 31-1-141-1, 31Z-10-4, 42B-1-23												
A2.4.1. Hazards of AFSC 2A0X1								B	B	-	-	
A2.4.2. AFOSH standards for AFSC 2A0X1								A	B	-	-	
A2.4.3. Keep work areas clean and safe								2b	-	-	-	
A2.4.4. Apply safety precautions when Working with:												
A2.4.4.1. Electronic equipment								2b	-	-	-	
A2.4.4.2. High voltage equipment								2b	-	-	-	
A2.4.4.3. Hand tools								2b	-	-	-	
A2.4.4.4. Compressed gases								b	-	-	-	
A2.4.4.5. Cathode-ray tube (CRT)								b	-	-	-	
A2.4.4.6. Radio Frequency (RF) sources								b	-	-	-	
A2.4.4.7. Radioactive materials								b	-	-	-	
A2.4.4.8. High intensity sound								b	-	-	-	
A2.4.5. Effects of RF radiation								B	B	-	-	
A2.4.6. Reporting RF overexposure								b	-	-	-	
A2.5. HAZARDOUS MATERIALS AND WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS TR: AFOSH STD 161-21.1W												
A2.5.1. Types of hazardous material/fluids								B	-	-	B	
A2.5.2. Handling procedures								B	-	-	-	
A2.5.3. Storage and labeling								B	-	-	-	
A2.5.4. Proper disposal								B	-	-	B	

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
A2.5.5.	Apply safety precautions when working with hazardous materials							b	-	-	-
A2.5.6.	Freon Service and Recovery							C	-	-	-
A2.6.	TECHNICAL PUBLICATIONS TR: AFPD 21-3; TOs 0-1-01, 00-5-1, 00-5-2, 00-5-3, 00-5-16, 00-5-17, 00-25-06-2-2, 51-1-06-1, 80-0-1										
A2.6.1.	Function and application							A	-	-	-
A2.6.2.	Technical Order Management							-	-	-	B
A2.6.3.	Use Technical Order (TO) indexes							-	-	-	-
A2.6.4.	Use Electronic TOs							-	-	-	-
A2.6.5.	Use TOs to perform:										
A2.6.5.1.	Maintenance							2b	-	-	-
A2.6.5.2.	Line Replaceable Unit (LRU) inspections							2b	-	-	-
A2.6.5.3.	Time compliance TO							-	-	-	-
A2.6.5.4.	Part number research							2b	-	-	-
A2.6.6.	Report TO deficiencies							-	-	-	-
A2.6.7.	Computer Program Identification Number (CPIN) system							A	B	-	-
A2.6.8.	Use CPIN compendium							-	-	-	-
A2.7.	AIR FORCE SUPPLY DISCIPLINE TR: AFI 21-101										
A2.7.1.	Supply Discipline							-	B	-	-
A2.7.2.	Maintenance Supply Concept							-	-	-	B
A2.7.3.	Supply Documents Management							-	-	-	B
A2.7.4.	Equipment Account Management							-	-	-	B
A2.7.5.	Status of Reports and Training (SORTS)							-	-	-	A
A2.7.6.	Priority System							-	-	-	B
A2.7.7.	Repair Cycle Assets							-	-	-	B

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
A2.7.8. Standard Base Supply System (SBSS)								-	-	-	B
A2.7.9. Classified Assets Handling								-	-	-	A
A2.7.10. Land Mobile Radios, Pagers, and Cell Phones								-	-	-	A
A2.7.11. Depot Level Repairables								-	-	-	B
A2.7.12. Processing and controlling of material TR: AFI 21-101											
A2.7.12.1. Processing and control of material								A	B	C	-
A2.7.12.2. Use condition tags								2b	-	-	-
A2.7.12.3. Use issue/turn-in requests								2b	-	-	-
A2.7.13. Use fed log								-	-	-	-
A2.7.14. Maintain equipment accounts								-	-	C	-
A2.8. MAINTENANCE AND INSPECTION											
A2.8.1. Duties and responsibilities of shop personnel								-	-	C	B
A2.8.2. Maintenance Accountability								-	-	-	B
A2.8.3. Operational Risk Management								-	-	-	B
A2.8.4. Logistics/ Resource Maintenance Management											
A2.8.4.1. Logistics Management								-	-	-	B
A2.8.4.2. Resource Management								-	-	-	B
A2.8.4.3. Operations/Logistics Group Commander Responsibilities								-	-	-	B
A2.8.4.4. PEWG, TIPWG, STP, and PMR								-	-	-	A
A2.8.4.5. Financial Plan								-	-	-	A
A2.8.4.6. Aircraft Maintenance Management Information Systems								-	-	-	B
A2.8.4.7. Aircraft Monitoring								-	-	-	B
A2.8.4.8. Unit Self-Assessments								-	-	-	A
A2.8.4.9. Maintenance QPM Relationships								-	-	-	B
A2.8.4.10. FOD Manager Program								-	-	-	A

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
A2.8.4.11. Mobility								-	-	-	A
A2.8.5. Basic functions within maintenance complex TR: AFI 21-101								A	B	C	B
A2.8.6. Levels of maintenance TR: AFI 21-101								A	B	-	-
A2.8.7. Inspection systems TR: TO 00-20 series								A	B	-	-
A2.8.8. Perform quality assurance inspections								-	-	-	-
A2.8.9. Fundamentals and Application of Maintenance Data Collection								A	B	-	-
A2.8.10. Use automated maintenance data system to: TR: AFM 66-279, 66-278; TO 00-20 series											
A2.8.10.1. Access menu and data screens	*							2b	-	-	-
A2.8.10.2. Change performing workcenter codes								-	-	-	-
A2.8.10.3. Change workcenter event narratives								-	-	-	-
A2.8.10.4. Clear or close out completed maintenance discrepancies	*							2b	-	-	-
A2.8.10.5. Conduct delayed discrepancies inquiries		*						2b	-	-	-
A2.8.10.6. Conduct uncompleted maintenance event listing inquiries		*						2b	-	-	-
A2.8.10.7. Enter maintenance data	*							2b	-	-	A
A2.8.10.8. Initiate equipment maintenance discrepancies	*							2b	-	-	-
A2.8.10.9. Load LRU part numbers or serial numbers								-	-	-	-
A2.8.10.10. Start/stop job following events								2b	-	-	-
A2.8.10.11. Update inspections	*							-	-	-	-
A2.8.10.12. Extract historical maintenance data		*						-	-	-	-
A2.8.10.13. Management/Supervision Transactions								-	-	-	A

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
A2.8.10.14. Integrated Maintenance Data Systems (IMDS)								-	-	-	A
A2.8.10.15 Other Automated Maintenance Systems								-	-	-	A
A2.8.10.16. Conduct interface with Standard Base Supply System (SBSS)/supply interface to:											
A2.8.10.16.1. Order parts	*							2b	-	-	A
A2.8.10.16.2. Process supply inquiry								1a	-	-	-
A2.8.10.17. Review MDC for accuracy		*						-	-	-	-
A2.8.11. Product Improvement TR: TO 00-35D-54											
A2.8.11.1. Deficiency Reporting								A	B	-	B
A2.8.11.2. Complete Deficiency Reports								-	-	-	-
A2.8.11.3. Report Software Deficiencies								-	-	-	B
A2.8.11.4. Service Report								-	-	-	-
A2.8.11.5. Input/Review DR data in automated maintenance system								-	-	-	-
A2.8.12. Job Data Documentation (JDD)								-	-	-	B
A2.8.13. Historical Records								-	-	-	B
A2.8.14. Status Reports								-	-	-	B
A2.8.15. Configuration management								-	-	-	B
A2.9. AVIONICS INTERMEDIATE SHOP CONCEPTS TR: TOs 00-25-234, 1-1A-14,1-1A-15, 32B14-3-1-101, and applicable equipment TOs											
A2.9.1. Use Common Tools TR: AFOSH 127-3; TOs 32-1-2, 32-1-101, 32-1-20								2b	-	-	-
A2.9.2. Safety Wire								-	-	-	-
A2.9.3. Use torque indicating devices								2b	-	-	-
A2.9.4. Follow CTK procedures								2b	-	-	-
A2.9.5. Maintain CTKs								-	-	-	-
A2.9.6. Identify test equipment categories								-	A	-	-

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
A2.9.7. Maintain test equipment TR: TOs 00-20-7, 00-20-14, 33K-1-53 series, 33K-1-100, applicable test equipment TOs								-	-	-	-
A2.9.8. Identify calibration requirements								-	-	-	-
A2.9.9. Calibrate test equipment TR: TOs 00-20-14, 33K-1-53 series, 35K-1-100, applicable test equipment TOs								-	-	-	-
A2.9.10. Practice electrostatic discharge (ESD) sensitive device procedures/ precautions								2b	-	-	-
A2.9.11. Practice corrosion control											
A2.9.11.1. Clean equipment								-	-	-	-
A2.9.11.2. Lubricate equipment								-	-	-	-
A2.9.12. Clean optical surfaces								-	-	-	-
A2.9.13. Inspect equipment		*						1b	-	-	-
A2.9.14. Pack/Unpack LRUs								-	-	-	-
A2.9.15. Perform security checks								-	-	-	-
A2.9.16. AF Form 244								-	-	-	B
A2.10. AIRCRAFT SYSTEMS THEORY TR: TO 31-1-141 series											
A2.10.1. Radar Systems								A	B	-	-
A2.10.2. Navigation Systems											
A2.10.2.1. Inertial navigation (INS)								A	B	-	-
A2.10.2.2. Tactical air navigation (TACAN)								A	B	-	-
A2.10.2.3. Global Positioning System (GPS)								A	B	-	-
A2.10.2.4. Identification Friend or Foe (IFF)								A	B	-	-
A2.10.3. Flight control systems								A	B	-	-
A2.10.4. Weapons/Cargo delivery systems								A	B	-	-
A2.10.5. Communication systems											
A2.10.5.1. UHF								A	B	-	-
A2.10.5.2. VHF								A	B	-	-
A2.10.6. Air data systems								A	B	-	-

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
A2.10.7.	Electronic counter measures							A	B	-	-
A2.10.8.	Flight instruments and displays							A	B	-	-
A2.10.9.	Bussing and multiplexing systems							A	B	-	-
A2.10.10.	Avionics integration and control systems							A	A	-	-
A2.10.11.	Propulsion management systems							A	A	-	-
A2.11.	TEST STATION PRINCIPLES TR: applicable test station TO										
A2.11.1.	Power distribution							A	B	-	-
A2.11.2.	Stimulus devices							A	B	-	-
A2.11.3.	Measurement devices							A	B	-	-
A2.11.4.	Computer control							A	B	-	-
A2.11.5.	IEEE bus communications standard							A	B	-	-
A2.11.6.	Signal routing							A	B	-	-
A2.12.	ABBREVIATED TEST LANGUAGE FOR ALL SYSTEMS (ATLAS) TR: TOs 33D7-38-111-1-3, 33D7-38-111-18-1, 33D7-38-111-82; NA-84-1110H										
A2.12.1.	Statement syntax							-	-	-	-
A2.12.2.	Non-test statements										
A2.12.2.1.	Data declaration							-	-	-	-
A2.12.2.2.	Calculate/compare							-	-	-	-
A2.12.2.3.	Decision/branching							-	-	-	-
A2.12.2.4.	Input/output/delay							-	-	-	-
A2.12.3.	Test statements										
A2.12.3.1.	Analog stimulus							-	-	-	-
A2.12.3.2.	Analog measurement							-	-	-	-
A2.12.3.3.	Digital test							-	-	-	-
A2.12.3.4.	Protocols							-	-	-	-
A2.12.4.	System procedures							-	-	-	-

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC
A2.12.5. Program structure								-	-	-	-
A2.12.6. Program analysis								-	-	C	-
A2.13. METROLOGY PRINCIPALS TR: TO 00-20-14; 33K-1-100, 33k-1-101, 33-1-27, 31-1-141 Series											
A2.13.1. Principals											
A2.13.1.1. Traceability (Ability to trace the line of documentation to the source standard at National Institute of Standards and Technology)								A	B	-	-
A2.13.1.2. Management of Environmental Conditions								A	-	-	-
A2.13.1.3. Substitution of TMDE Standards								A	-	-	-
A2.13.1.4. Quality Assurance Program								A	-	-	-
A2.13.2. Forms											
A2.13.2.1. Use calibration correction charts								a	-	-	-
A2.13.2.2. Complete TMDE form documentation/ certification								a	-	-	-
A2.13.3. Mathematical Computations (Calculate TMDE related Parameters)								2b	-	-	-
A2.13.4. Auto-tracking System for the collection of calibration data (PAMS)											
A2.13.4.1. Document Maintenance Actions								-	-	-	-
A2.13.4.2. Schedule Equipment Maintenance								-	-	-	-
A2.13.5. Portable Automatic Test Equipment Calibrator (PATEC)											
A2.13.5.1. Theory of operation								A	-	-	-
A2.13.5.2. Operation								2b	-	-	-
A2.13.5.3. Purpose and function of PATEC core								A	-	-	-

COMMON 2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	CRS	CDC	CRS	CDC	
A2.14. ANCILLARY COMMON TASKS												
A2.14.1. Computers and Computer Usage												
A2.14.1.1. Application Use								-	-	-	-	
A2.14.1.2. Operating Systems								-	-	-	-	
A2.14.1.3. Hardware								-	-	-	-	
A2.14.1.4. Local Area Networks (LAN)								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
<p>NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7 level in-residence course is not taught in wartime.</p> <p>NOTE 2: Core Tasks are identified by an asterisk (*) in the appropriate column. Core tasks identified with an *R are optional for ANG and AFRC.</p> <p>NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.</p> <p>NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7891.</p>												
A3.1.	PROGRAM LANGUAGES TR: TO 33-1-161 series, 33D7-38-77 series											
A3.1.1	F-15 Adapted Place ATLAS (FAPA)											
A3.1.1.1.	Interpret FAPA Statements							A	B	-	-	
A3.1.1.2.	Program TRUs (Drawer Coding)							1b	-	-	-	
A3.2.	COMMUNICATION, NAVIGATION, AND IDENTIFICATION TEST STATION AND ASSIGNED LRUs/SRUs TR: TOs 33-1-161-1, 33A1-3-466-1, 33A1-3-466-2, Applicable LRU/SRU Series TOs											
A3.2.1.	Communication, Navigation, and Identification Test Station											
A3.2.1.1.	Theory of operation							-	-	-	-	
A3.2.1.2.	Signal flow within and between peculiar TRUs											
A3.2.1.2.1.	Variable Power Transformer							-	-	-	-	
A3.2.1.2.2.	Signal Routing and Interface Panel							-	-	-	-	
A3.2.1.2.3.	Tactical Navigation (TACAN) Control Panel							-	-	-	-	
A3.2.1.2.4.	Identification, friend or foe (IFF) control panel							-	-	-	-	
A3.2.1.2.5.	Instrument Landing System (ILS) Test Set TR: TO 33D2-6-207-11							-	-	-	-	
A3.2.1.2.6.	Ultra High Frequency (UHF) Control Panel							-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.2.1.2.7. TACAN Test Set TR: TO 33D7-71-23-1								-	-	-	-
A3.2.1.2.8. DC Power Supply TR: 33AA17-124-1								-	-	-	-
A3.2.1.2.9. AM/FM Signal Generator TR: 33A1-8-755-1								-	-	-	-
A3.2.1.2.10. RF/RMS Volt Meter TR: 33A1-12-1001-1								-	-	-	-
A3.2.1.2.11. Radar Test Set TR: TO 33A1-3-426-21-1								-	-	-	-
A3.2.1.2.12. LRU Blower Control Panel								-	-	-	-
A3.2.1.3. Perform IFF/RF loss correction chart procedures	*							-	-	-	-
A3.2.1.4. Perform Confidence test	*							-	-	-	-
A3.2.1.5. Perform Operational Assurance/Fault Isolation (OA/FI) test	*							-	-	-	-
A3.2.1.6. Isolate/repair malfunctions								-	-	-	-
A3.2.1.7. Perform required inspections	*							-	-	-	-
A3.2.2. LRUs assigned											
A3.2.2.1. Electronic Control Amplifier TR: TO 12R5-2ARD-107											
A3.2.2.1.1. Theory of operation								-	-	-	-
A3.2.2.1.2. Operational check								-	-	-	-
A3.2.2.1.3. Troubleshoot/repair								-	-	-	-
A3.2.2.2. Air/Air Interrogator (AAI) TR: TO 12P4-2APX76-17											
A3.2.2.2.1. Theory of operation								-	-	-	-
A3.2.2.2.2. Operational check	*							-	-	-	-
A3.2.2.2.3. Troubleshoot/repair								-	-	-	-
A3.2.2.3. IFF (R/T) TR: TO 12P4-2APX101-7											
A3.2.2.3.1. Theory of operation								-	-	-	-
A3.2.2.3.2. Operational check								-	-	-	-
A3.2.2.3.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.2.2.4. ILS Receiver TR: TO 12R5-2ARN-427-1												
A3.2.2.4.1. Theory of operation								-	-	-	-	
A3.2.2.4.2. Operational check								-	-	-	-	
A3.2.2.4.3. Troubleshoot/repair								-	-	-	-	
A3.2.2.5. ILS Test Set TR: TO 33A1-3-473-7												
A3.2.2.5.1. Theory of operation								-	-	-	-	
A3.2.2.5.2. Operational check								-	-	-	-	
A3.2.2.5.3. Troubleshoot/repair								-	-	-	-	
A3.2.2.6. TACAN R/T (AN/ARN-84) TR: TO 12R5-2ARN-417												
A3.2.2.6.1. Theory of operation								-	-	-	-	
A3.2.2.6.2. Operational check								-	-	-	-	
A3.2.2.6.3. Troubleshoot/repair								-	-	-	-	
A3.2.2.7. TACAN R/T (AN/ARN-118) TR: TO 12R5-4-106-8-1												
A3.2.2.7.1. Theory of operation								-	-	-	-	
A3.2.2.7.2. Operational check								-	-	-	-	
A3.2.2.7.3. Troubleshoot/repair								-	-	-	-	
A3.2.2.8. UHF R/T (AN/ARC-164) TR: TO 12R2-2ARC164-8-1												
A3.2.2.8.1. Theory of operation								-	-	-	-	
A3.2.2.8.2. Operational check								-	-	-	-	
A3.2.2.8.3. Troubleshoot/repair								-	-	-	-	
A3.2.2.9. UHF R/T (AN/ARC-164 HQ) TR: TO 12R2-2ARC164-8-1												
A3.2.2.9.1. Theory of operation								-	-	-	-	
A3.2.2.9.2. Operational check								-	-	-	-	
A3.2.2.9.3. Troubleshoot/repair								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.3.	INDICATORS AND CONTROLS TEST STATION AND ASSIGNED LRUs/SRUs TR: TOs 33-1-161-1, 33D7-20-55-1, 33D7-20-55-2, Applicable LRU/SRU Series TOs												
A3.3.1.	Indicators and Controls Test Station												
A3.3.1.1.	Theory of operation								-	-	-	-	
A3.3.1.2.	Signal flow within and between peculiar TRUs												
A3.3.1.2.1.	AC/DC Power Supply								-	-	-	-	
A3.3.1.2.2.	Variable AC Power Supply								-	-	-	-	
A3.3.1.2.3.	Regulated AC Power Supply								-	-	-	-	
A3.3.1.2.4.	Fixed AC Power Supply								-	-	-	-	
A3.3.1.2.5.	Relay Assembly Group								-	-	-	-	
A3.3.1.2.6.	Generator Control Unit Control Panel								-	-	-	-	
A3.3.1.2.7.	Manual Signal Generator								-	-	-	-	
A3.3.1.2.8.	Manual Stimulus Assembly								-	-	-	-	
A3.3.1.2.9.	Impedance Unit								-	-	-	-	
A3.3.1.2.10.	Low Synchro and Transmitter								-	-	-	-	
A3.3.1.2.11.	Phase Meter								-	-	-	-	
A3.3.1.2.12.	Variable DC Power Supply								-	-	-	-	
A3.3.1.3.	Perform Confidence Test	*							-	-	-	-	
A3.3.1.4.	Perform OA/FI test	*							-	-	-	-	
A3.3.1.5.	Isolate/repair malfunctions								-	-	-	-	
A3.3.1.6.	Perform required inspections	*							-	-	-	-	
A3.3.2.	LRUs assigned												
A3.3.2.1.	AAI Control Panel (C-9013) TR: TO 12S1-2A-107												
A3.3.2.1.1.	Theory of operation								-	-	-	-	
A3.3.2.1.2.	Operational check								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.3.2.1.3. Troubleshoot/repair								-	-	-	-
A3.3.2.2. Aircraft Air Temperature Electronic Control Box TR: TO 15A8-5-87-8-1											
A3.3.2.2.1. Theory of operation								-	-	-	-
A3.3.2.2.2. Operational check								-	-	-	-
A3.3.2.3. Airspeed Mach Indicator TR: TO 5F8-2-63-7											
A3.3.2.3.1. Theory of operation								-	-	-	-
A3.3.2.3.2. Operational check								-	-	-	-
A3.3.2.4. Altitude Indicator TR: TO 5F8-20-9-7											
A3.3.2.4.1. Theory of operation								-	-	-	-
A3.3.2.4.2. Operational check								-	-	-	-
A3.3.2.5. Angle of Attack (AOA) Indicator TR: TO 5F8-19-7-7											
A3.3.2.5.1. Theory of operation								-	-	-	-
A3.3.2.5.2. Operational check								-	-	-	-
A3.3.2.6. AOA Transmitter TR: TO 5F10-4-17-7											
A3.3.2.6.1. Theory of operation								-	-	-	-
A3.3.2.6.2. Operational check								-	-	-	-
A3.3.2.7. Avionics Status Panel TR: TO 8D24-2-7											
A3.3.2.7.1. Theory of operation								-	-	-	-
A3.3.2.7.2. Operational check								-	-	-	-
A3.3.2.7.3. Troubleshoot/repair								-	-	-	-
A3.3.2.8. Built-In-Test Control/Display Panel TR: TO 5A13-5-15-7											
A3.3.2.8.1. Theory of operation								-	-	-	-
A3.3.2.8.2. Operational check								-	-	-	-
A3.3.2.8.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.3.2.9. Caution Light Display Unit TR: 8C15-8-8-7-2												
A3.3.2.9.1. Theory of operation								-	-	-	-	
A3.3.2.9.2. Operational check								-	-	-	-	
A3.3.2.9.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.10. Caution Light Logic Unit (CLLU) TR: TO 8C15-8-8-7-1												
A3.3.2.10.1. Theory of operation								-	-	-	-	
A3.3.2.10.2. Operational check								-	-	-	-	
A3.3.2.10.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.11. Compass Control TR: TO 5A1-9-3-2-1												
A3.3.2.11.1. Theory of operation								-	-	-	-	
A3.3.2.11.2. Operational check								-	-	-	-	
A3.3.2.11.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.12. Aircraft Grip Assembly Controller TR: TO 16C1-27-18-7												
A3.3.2.12.1. Theory of operation								-	-	-	-	
A3.3.2.12.2. Operational check								-	-	-	-	
A3.3.2.12.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.13. Electrical Tachometer TR: TO 5E6-2-56-7												
A3.3.2.13.1. Theory of operation								-	-	-	-	
A3.3.2.13.2. Operational check								-	-	-	-	
A3.3.2.14. Engaging Controller TR: TO 5A9-9-2-7												
A3.3.2.14.1. Theory of operation								-	-	-	-	
A3.3.2.14.2. Operational check								-	-	-	-	
A3.3.2.14.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.15. Fan Turbine Inlet Temperature Indicator TR: TO 5A1-9-3-2-1												
A3.3.2.15.1. Theory of operation								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.3.2.15.2. Operational check								-	-	-	-
A3.3.2.16. Fuel Level Control TR: TO 6J3-4-104-7											
A3.3.2.16.1. Theory of operation								-	-	-	-
A3.3.2.16.2. Operational check								-	-	-	-
A3.3.2.16.3. Troubleshoot/repair								-	-	-	-
A3.3.2.17. Fuel Quantity Indicator TR: TO 5L6-3-65-7											
A3.3.2.17.1. Theory of operation								-	-	-	-
A3.3.2.17.2. Operational check								-	-	-	-
A3.3.2.18. IFF Control Panel TR: TO 12S1-2A-107											
A3.3.2.18.1. Theory of operation								-	-	-	-
A3.3.2.18.2. Operational check								-	-	-	-
A3.3.2.18.3. Troubleshoot/repair								-	-	-	-
A3.3.2.19. Integrated Communications Control Panel (ICCP) (C-9011, C-10376, C-10796) TR: TO 12R1-2ARA-107											
A3.3.2.19.1. Theory of operation								-	-	-	-
A3.3.2.19.2. Operational check		*						-	-	-	-
A3.3.2.19.3. Troubleshoot/repair								-	-	-	-
A3.3.2.20. Integrated Navigation Aids Control Panel TR: TO 12S1-2A-107											
A3.3.2.20.1. Theory of operation								-	-	-	-
A3.3.2.20.2. Operational check								-	-	-	-
A3.3.2.20.3. Troubleshoot/repair								-	-	-	-
A3.3.2.21. Interior Lights Power Supply TR: TO 8A2-9-7											
A3.3.2.21.1. Theory of operation								-	-	-	-
A3.3.2.21.2. Operational check								-	-	-	-
A3.3.2.21.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.3.2.22. Landing Gear Control Indicator TR: TO 5F8-17-19-7												
A3.3.2.22.1. Theory of operation								-	-	-	-	
A3.3.2.22.2. Operational check								-	-	-	-	
A3.3.2.22.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.23. Level Sensing, Fuel Transfer TR: TO 6J3-4-104-7												
A3.3.2.23.1. Theory of operation								-	-	-	-	
A3.3.2.23.2. Operational check								-	-	-	-	
A3.3.2.23.3. Adjust/align								-	-	-	-	
A3.3.2.24. Main Communications Control Panel (MCCP) TR: TO 12S1-2A-107												
A3.3.2.24.1. Theory of operation								-	-	-	-	
A3.3.2.24.2. Operational check								-	-	-	-	
A3.3.2.24.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.25. Motor Generator Control Unit TR: TO 8A3-5-38-7												
A3.3.2.25.1. Theory of operation								-	-	-	-	
A3.3.2.25.2. Operational check								-	-	-	-	
A3.3.2.25.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.26. Nozzle Position Indicator TR: TO 5E6-7-4-7												
A3.3.2.26.1. Theory of operation								-	-	-	-	
A3.3.2.26.2. Operational check								-	-	-	-	
A3.3.2.27. Nozzle Position Transmitter TR: TO 5E12-20-7												
A3.3.2.27.1. Theory of operation								-	-	-	-	
A3.3.2.27.2. Operational check								-	-	-	-	
A3.3.2.28. Oil Pressure Indicator TR: TO T36-4-16-7												
A3.3.2.28.1. Theory of operation								-	-	-	-	
A3.3.2.28.2. Operational check								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.3.2.29. Oil Pressure Transmitter TR: TO 5E12-22-7												
A3.3.2.29.1. Theory of operation								-	-	-	-	
A3.3.2.29.2. Operational check								-	-	-	-	
A3.3.2.30. Overheat Fire Detection Alarm Control TR: TO 8C3-15-4-8-1												
A3.3.2.30.1. Theory of operation								-	-	-	-	
A3.3.2.30.2. Operational check								-	-	-	-	
A3.3.2.31. Pitch Ratio Indicator TR: TO 5F8-12-6-7												
A3.3.2.31.1. Theory of operation								-	-	-	-	
A3.3.2.31.2. Operational check								-	-	-	-	
A3.3.2.32. Power Plant LH Throttle Lever Grip TR: TO 2JA9-5-7-1												
A3.3.2.32.1. Theory of operation								-	-	-	-	
A3.3.2.32.2. Operational check								-	-	-	-	
A3.3.2.32.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.33. Power Plant RH Throttle Lever Grip TR: TO 2JA9-5-7-2												
A3.3.2.33.1. Theory of operation								-	-	-	-	
A3.3.2.33.2. Operational check								-	-	-	-	
A3.3.2.33.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.34. Pressure Transmitter TR: TO 5E12-21-7												
A3.3.2.34.1. Theory of operation								-	-	-	-	
A3.3.2.34.2. Operational check								-	-	-	-	
A3.3.2.35. Radar Set Control TR: TO 12P2-2APG63-67												
A3.3.2.35.1. Theory of operation								-	-	-	-	
A3.3.2.35.2. Operational check								-	-	-	-	
A3.3.2.35.3. Troubleshoot/repair								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.3.2.36. Rate of Fuel Flow Indicator TR: TO 5L6-2-53-7												
A3.3.2.36.1. Theory of operation								-	-	-	-	
A3.3.2.36.2. Operational check								-	-	-	-	
A3.3.2.37. Signal Conditioner TR: TO 5L17-13-7-1												
A3.3.2.37.1. Theory of operation								-	-	-	-	
A3.3.2.37.2. Operational check								-	-	-	-	
A3.3.2.37.3. Adjust/align								-	-	-	-	
A3.3.2.38. Take Command Control Panel TR: TO 12S1-2A-107												
A3.3.2.38.1. Theory of operation								-	-	-	-	
A3.3.2.38.2. Operational check								-	-	-	-	
A3.3.2.38.3. Troubleshoot/repair								-	-	-	-	
A3.3.2.39. Vertical Speed Indicator TR: TO 5F8-9-25-7												
A3.3.2.39.1. Theory of operation								-	-	-	-	
A3.3.2.39.2. Operational check								-	-	-	-	
A3.3.2.40. Video Tape Recorder System Control Panel TR: TO 16W7-31-7-1												
A3.3.2.40.1. Theory of operation								-	-	-	-	
A3.3.2.40.2. Operational check								-	-	-	-	
A3.3.2.40.3. Troubleshoot/repair								-	-	-	-	
A3.4. MOBILE ELECTRONIC TEST SET (METS) TR: Tos AT-822VB-MEB series, 33D7-17-80-1, 33D7-38-254-1												
A3.4.1. Theory of operation								-	A	-	-	
A3.4.2. Signal flow within and between peculiar TRUs												
A3.4.2.1. Computer Control Memory Unit (CCMU) TR: TO 33D7-68-37-2								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.4.2.2.	Signal Generator Converter (SGC) TR: TO 33AA41-10-2								-	-	-	-
A3.4.2.3.	Converter Interface (CI) TR: TO 33D7-17-80-1								-	-	-	-
A3.4.3.	Perform Self Test	*							-	-	-	-
A3.4.4.	Level Rate-of-Turn Table								-	-	-	-
A3.4.5.	Calibrate Rate-of-Turn Table								-	-	-	-
A3.4.6.	Isolate/repair malfunctions								-	-	-	-
A3.4.7.	Perform required inspections	*							-	-	-	-
A3.5.	LRUs ASSIGNED TO THE METS											
A3.5.1.	AAI R/T TR: TO 12P4-2APX76-8-1											
A3.5.1.1.	Theory of operation								-	-	-	-
A3.5.1.2.	Operational check								-	-	-	-
A3.5.1.3.	Troubleshoot/repair								-	-	-	-
A3.5.2.	Air Data Computer (ADC) TR: TO 12P4-2APX76-8-1											
A3.5.2.1.	Theory of operation								-	-	-	-
A3.5.2.2.	Operational check								-	-	-	-
A3.5.2.3.	Troubleshoot/repair								-	-	-	-
A3.5.3.	Automatic Direction Finder Electronic Control Amplifier (ADF ECA) TR: TO 12R5-2ARD-108-1											
A3.5.3.1.	Theory of operation								-	-	-	-
A3.5.3.2.	Operational check								-	-	-	-
A3.5.3.3.	Troubleshoot/repair								-	-	-	-
A3.5.4.	Avionics Interface Unit (AIU) #1 TR: TO 11F1-ASQ195-18-1											
A3.5.4.1.	Theory of operation								-	-	-	-
A3.5.4.2.	Operational check								-	-	-	-
A3.5.4.3.	Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.5.5. AIU #2 TR: TO 11F1-ASQ195-28-1												
A3.5.5.1. Theory of operation								-	-	-	-	
A3.5.5.2. Operational check								-	-	-	-	
A3.5.5.3. Troubleshoot/repair								-	-	-	-	
A3.5.6. Displacement Gyro (DG) TR: TO 5A1-9-3-8-18												
A3.5.6.1. Theory of operation								-	-	-	-	
A3.5.6.2. Operational check								-	-	-	-	
A3.5.7. Electronic Air Inlet Controller (EAIC) TR: TO 5F28-2-8-19												
A3.5.7.1. Theory of operation								-	-	-	-	
A3.5.7.2. Operational check		*						-	-	-	-	
A3.5.7.3. Troubleshoot/repair								-	-	-	-	
A3.5.8. Electronic Control Amp (ECA) TR: TO 5A1-9-3-8-17												
A3.5.8.1. Theory of operation								-	-	-	-	
A3.5.8.2. Operational check								-	-	-	-	
A3.5.8.3. Troubleshoot/repair								-	-	-	-	
A3.5.9. Electronic Linear Accelerometer (ELA) TR: TO 5F2-32-8-2												
A3.5.9.1. Theory of operation								-	-	-	-	
A3.5.9.2. Operational check								-	-	-	-	
A3.5.9.3. Troubleshoot/repair								-	-	-	-	
A3.5.10. Engine Monitor Display TR: TO 5E1-2-14-8-1												
A3.5.10.1. Theory of operation								-	-	-	-	
A3.5.10.2. Operational check								-	-	-	-	
A3.5.10.3. Troubleshoot/repair								-	-	-	-	
A3.5.11. Flight Control Computer (FCC) TR: TO 5A7-3-43-8-1												
A3.5.11.1. Theory of operation								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.5.11.2. Operational check	*							-	-	-	-
A3.5.11.3. Troubleshoot/repair								-	-	-	-
A3.5.12. IFF Transponder TR: TO 12P4-2APX101-8-18											
A3.5.12.1. Theory of operation								-	-	-	-
A3.5.12.2. Operational check								-	-	-	-
A3.5.12.3. Troubleshoot/repair								-	-	-	-
A3.5.13. ILS Receiver TR: TO 12R5-2ARN-427-3											
A3.5.13.1. Theory of operation								-	-	-	-
A3.5.13.2. Operational check								-	-	-	-
A3.5.13.3. Troubleshoot/repair								-	-	-	-
A3.5.14. ILS Test Set TR: TO 33A1-3-473-8-1											
A3.5.14.1. Theory of operation								-	-	-	-
A3.5.14.2. Operational check								-	-	-	-
A3.5.14.3. Troubleshoot/repair								-	-	-	-
A3.5.15. Intercommunications Set (ICSCP) TR: TO 12R2-4-280-8-1											
A3.5.15.1. Theory of operation								-	-	-	-
A3.5.15.2. Operational check								-	-	-	-
A3.5.15.3. Troubleshoot/repair								-	-	-	-
A3.5.16. Lead Computing Gyro (LCG) TR: TO 11F20-23-8-16											
A3.5.16.1. Theory of operation								-	-	-	-
A3.5.16.2. Operational check								-	-	-	-
A3.5.16.3. Troubleshoot/repair								-	-	-	-
A3.5.17. Nozzle Position Transmitter (NPT) TR: TO 5E12-26-8-1											
A3.5.17.1. Theory of operation								-	-	-	-
A3.5.17.2. Operational check								-	-	-	-
A3.5.17.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.5.18. Remote Map Reader (RMR) TR: TO 12P5-4-87-8-1												
A3.5.18.1. Theory of operation								-	-	-	-	
A3.5.18.2. Operational check		*						-	-	-	-	
A3.5.18.3. Troubleshoot/repair								-	-	-	-	
A3.5.19. TACAN Mount TR: TO 12R5-4-106-8-3												
A3.5.19.1. Theory of operation								-	-	-	-	
A3.5.19.2. Operational check								-	-	-	-	
A3.5.19.3. Troubleshoot/repair								-	-	-	-	
A3.5.20. TACAN R/T TR: TO 12R5-4-106-8-3												
A3.5.20.1. Theory of operation								-	-	-	-	
A3.5.20.2. Operational check								-	-	-	-	
A3.5.20.3. Troubleshoot/repair								-	-	-	-	
A3.5.21. UHF R/T (1145) TR: TO 12R2-2ARC164-8-2												
A3.5.21.1. Theory of operation								-	-	-	-	
A3.5.21.2. Operational check								-	-	-	-	
A3.5.21.3. Troubleshoot/repair								-	-	-	-	
A3.5.22. UHF R/T (1504) TR: TO 12R2-2ARC164-8-2												
A3.5.22.1. Theory of operation								-	-	-	-	
A3.5.22.2. Operational check								-	-	-	-	
A3.5.22.3. Troubleshoot/repair								-	-	-	-	
A3.5.23. Upfront Control Panel (UFCP) TR: TO 12R5-4-222-8-1												
A3.5.23.1. Theory of operation								-	-	-	-	
A3.5.23.2. Operational check								-	-	-	-	
A3.5.23.3. Troubleshoot/repair								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.6. ANTENNA TEST STATION TR: Tos 33-1-161, 33D7-35-39-1, 33D7-35-39-2												
A3.6.1. Antenna "A & B" Test Stations												
A3.6.1.1. Theory of operation								A	-	-	-	
A3.6.1.2. Signal flow within and between peculiar TRUs												
A3.6.1.2.1. Antenna "A" test station												
A3.6.1.2.1.1. Antenna Power Supply								-	-	-	-	
A3.6.1.2.1.2. Low Voltage Power Supply (LVPS) Primary Power Control Panel								-	-	-	-	
A3.6.1.2.1.3. Variable Transformer Panel								-	-	-	-	
A3.6.1.2.1.4. Power Supply Assembly								-	-	-	-	
A3.6.1.2.1.5. LVPS Control and Display Panel								-	-	-	-	
A3.6.1.2.1.6. Impedance Units 1 & 2								-	-	-	-	
A3.6.1.2.1.7. Antenna Control and Display Panel								B	-	-	-	
A3.6.1.2.1.8. Hydraulic Power Supply								A	-	-	-	
A3.6.1.2.1.9. Hydraulic Control Panel								-	-	-	-	
A3.6.1.2.1.10. Servo Command Signal Generator								-	-	-	-	
A3.6.1.2.1.11. X & L Band Signal Generator TR: 33A1-8-718-1								-	-	-	-	
A3.6.1.2.1.12. RMS Volt Meter TR: TO 33A1-12-643-1								-	-	-	-	
A3.6.1.2.1.13. LRU Blower Panel								-	-	-	-	
A3.6.1.2.1.14. Transfer Function Analyzer TR: TOs 33D7-10-79-1, 33D7-10-153-1								-	-	-	-	
A3.6.1.2.1.15. Anechoic Chamber								-	-	-	-	
A3.6.1.2.1.16. Nitrogen Supply								-	-	-	-	
A3.6.1.2.2. Antenna "B" test station												
A3.6.1.2.2.1. Transmitter Power Supply								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.6.1.2.2.2. Transmitter Primary Power Control Panel								-	-	-	-
A3.6.1.2.2.3. Transmitter Control and Display Panel								B	-	-	-
A3.6.1.2.2.4. Transmitter Mounting Fixture								B	-	-	-
A3.6.1.2.2.5. Coolant Conditioning Unit								A	-	-	-
A3.6.1.2.2.6. Flush and Fill Unit								A	-	-	-
A3.6.1.2.2.7. Noise Analyzer TR: TO 33D7-10-76-1								-	-	-	-
A3.6.1.2.2.8. High Frequency Spectrum Analyzer TR: TO 33D7-10-85-1								-	-	-	-
A3.6.1.2.2.9. Low Frequency Spectrum Analyzer TR: TO 33D7-77-11-1								-	-	-	-
A3.6.1.2.2.10. Transmitter Pulse Generator TR: TO 33A1-8-719-1								-	-	-	-
A3.6.1.2.2.11. Microwave Signal Generator TR: TO 33A1-8-720-1								A	-	-	-
A3.6.1.2.2.12. Coolant flow through and between applicable TRUs								A	-	-	-
A3.6.1.2.3. Hydraulic flow through and between applicable TRUs								A	-	-	-
A3.6.1.3. Perform RF loss correction chart procedures											
A3.6.1.3.1. Channel A	*							-	-	-	-
A3.6.1.3.2. Channel B	*							-	-	-	-
A3.6.1.4. Troubleshoot RF failures in TMF								b	-	-	-
A3.6.1.5. Perform Confidence test	*							2b	-	-	-
A3.6.1.6. Perform OA/FI test	*							2b	-	-	-
A3.6.1.7. Isolate/repair malfunctions								b	-	-	-
A3.6.1.8. Perform required inspections	*							b	-	-	-
A3.6.2. Coolant Conditioning Unit (CCU)											
A3.6.2.1. Theory of operation								A	B	-	-
A3.6.2.2. Service Coolant								b	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.6.2.3.	Service Refrigeration							2b	-	-	-
A3.6.2.4.	Troubleshoot/Repair CCU							b	-	-	-
A3.6.3.	Service Hydraulic Power Supply							-	-	-	-
A3.6.4.	Service Flush and Fill Unit							-	-	-	-
A3.6.5.	Service Transmitter Mounting Fixture							-	-	-	-
A3.7.	ENHANCED AIRCRAFT RADAR TEST STATION (EARTS) TR: TOs 33D7-44-353-1, 33D7-44-353-2, 33-1-161-1										
A3.7.1.	Theory of Operation Channel A/ Channel B TR: TO 33D7-44-353-2										
A3.7.1.1.	Antenna Mounting Fixture TR: TO 33D7-44-353-2							-	-	-	-
A3.7.1.2.	Transmitter Mounting Fixture TR: TO 33D7-44-353-2							-	-	-	-
A3.7.1.3.	Signal flow within and between peculiar TRUs							-	-	-	-
A3.7.1.4.	Coolant flow within and between peculiar TRUs							-	-	-	-
A3.7.1.5.	Hydraulic flow within and between peculiar TRUs							-	-	-	-
A3.7.2.	Perform RF loss correction chart procedures		*					-	-	-	-
A3.7.3.	Troubleshoot RF failures in TMF							-	-	-	-
A3.7.4.	Isolate/repair malfunctions							-	-	-	-
A3.7.5.	Perform required inspections	*						-	-	-	-
A3.7.6.	Coolant Processing Unit										
A3.7.6.1.	Theory of operation							-	-	-	-
A3.7.6.2.	Service Coolant							-	-	-	-
A3.7.6.3.	Service Refrigeration							-	-	-	-
A3.7.6.4.	Troubleshoot/Repair EARTS Coolant Processing Units							-	-	-	-
A3.7.7.	Service Hydraulic Power Supply							-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.7.8. Enhanced ARTS Software												
A3.7.8.1. Operation								-	-	-	-	
A3.7.8.2. Station Software Boot								-	-	-	-	
A3.7.8.3. Test Program Selector/Loader (TPSL) Menu TR: 33D7-44-353-18-1								-	-	-	-	
A3.7.8.4. Test Program Execution Modes TR: 33D7-44-353-18-1								-	-	-	-	
A3.7.8.5. Diskette System Build Procedure TR: 33-1-161-1								-	-	-	-	
A3.7.9. ARTS Test Program Language TR: 33D7-44-353-11								-	-	-	-	
A3.7.10. Use ARTS Maintenance Support System (AMSS laptop) TR: 33D7-44-353-18-1								-	-	-	-	
A3.7.11. Perform Channel A Network Analyzer Calibration Procedure TR: 33D7-44-353-8-2								-	-	-	-	
A3.7.12. Perform Confidence Tests on Channel A TR: 33D7-44-353-8-4		*						-	-	-	-	
A3.7.13. Perform Confidence Tests on Channel B TR: 33D7-44-353-8-3		*						-	-	-	-	
A3.7.14. Perform OA/FI Tests on Channel A		*						-	-	-	-	
A3.7.15. Perform OA/FI Tests on Channel B		*						-	-	-	-	
A3.8. ANTENNA/EARTS LRU/SRUs TR: TOs 12P2-2APG63 series, 12P2-2APG70 series												
A3.8.1. Low Voltage Power Supply												
A3.8.1.1. Theory of operation								-	-	-	-	
A3.8.1.2. Operational check								-	-	-	-	
A3.8.1.3. Troubleshoot/repair								-	-	-	-	
A3.8.2. Radar Antenna (031)												
A3.8.2.1. Theory of operation								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.8.2.2. Operational check		*						-	-	-	-
A3.8.2.3. Troubleshoot/repair								-	-	-	-
A3.8.3. Radar Transmitter											
A3.8.3.1. Theory of operation								-	-	-	-
A3.8.3.2. Operational check	*							1b	-	-	-
A3.8.3.3. Troubleshoot/repair								-	-	-	-
A3.9. TEWS INTERMEDIATE SUPPORT SYSTEM (TISS) TR: TOs 33D7-33-217-1, 33D7-33-219-1, 33D7-33-224-1, 33D7-33-225-1, 33D7-33-226-1, 33D7-33-228-1, 33D7-33-229-1, 33D7-38-251 series											
A3.9.1. Theory of operation								A	-	-	-
A3.9.2. Signal flow within and between peculiar TRUs											
A3.9.2.1. Power Distribution Subsystem								A	-	-	-
A3.9.2.2. Computer Assembly								A	-	-	-
A3.9.2.3. General Purpose Interface Test Module (GPITM)								B	-	-	-
A3.9.2.4. Radio Frequency Interface Test Module (RITM)								B	-	-	-
A3.9.2.5. Load Cart Assemblies								-	-	-	-
A3.9.3. Modular Automatic Test Equipment (MATE) Software											
A3.9.3.1. MATE Operating System (MOS)								A	A	-	-
A3.9.3.2. MATE Test Executive (MTE)								A	A	-	-
A3.9.3.3. MATE ATLAS Compiler (MAC)								-	-	-	-
A3.9.3.4. MATE On-Line Editor (MOLE)								-	-	-	-
A3.9.4. Perform											
A3.9.4.1. Confidence (CNF) Test/ Internal Self-Test (IST)	*							2b	-	-	-
A3.9.4.2. Confidence Performance Diagnostics (CPD)	*							2b	-	-	-
A3.9.4.3. Perform PLC								2b	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.9.4.3.	180 day calibration		*						-	-	-	-
A3.9.4.4.	Software maintenance								-	-	-	-
A3.9.5.	Isolate/repair malfunctions											
A3.9.5.1.	Computer Analog Bay								b	-	-	-
A3.9.5.2.	RF Bay (RITM)								b	-	2c	-
A3.9.6.	Perform required inspections		*						-	-	-	-
A3.9.7.	Use TISS Utility Programs											
A3.9.7.1.	Debug								-	-	2c	-
A3.9.7.2.	Bustalk								-	-	-	-
A3.9.7.3.	Signal Path Trace								2b	-	2c	-
A3.9.7.4.	RITM Bit Bustalk Utility (RBBU)		*						2b	-	2c	-
A3.9.8.	Use TISS Data Display (TDD)								1b	-	-	-
A3.10.	TISS LRU/SRUs TR: TOs 1F-15A-2-99GS-00-1, 1F-15A-2-99GS-00-2 (S)											
A3.10.1.	LRUs assigned											
A3.10.1.1.	AN/ALR-56A/C System TR: TOs 12P3-2ALR56-18 series, 12P3-2ALR56-22 (S), 12P3-2ALR56-38 series, 12P3-2ALR56-78 series, 12P3-2ALR56-98 series, 12P3-2ALR56-118 series, 12P3-2ALR56-128 series, 12P3-2ALR56-138 series											
A3.10.1.1.1.	Low-Band Receiver/Processor (LRU-3A)											
A3.10.1.1.1.1.	Theory of operation								-	-	-	-
A3.10.1.1.1.2.	Operational check		*						-	-	-	-
A3.10.1.1.1.3.	Troubleshoot/repair								-	-	-	-
A3.10.1.1.2.	Low-Band Receiver/Processor Pacer Turbo (LRU-3AI)											
A3.10.1.1.2.1.	Theory of operation								-	-	-	-
A3.10.1.1.2.2.	Operational check		*						-	-	-	-
A3.10.1.1.2.3.	Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.10.1.1.3. High Band Receiver (LRU-6A)											
A3.10.1.1.3.1. Theory of operation								-	-	-	-
A3.10.1.1.3.2. Operational check								-	-	-	-
A3.10.1.1.3.3. Troubleshoot/repair								-	-	-	-
A3.10.1.1.4. Power Supply (LRU-2A)											
A3.10.1.1.4.1. Theory of operation								-	-	-	-
A3.10.1.1.4.2. Operational check								-	-	-	-
A3.10.1.1.4.3. Troubleshoot/repair								-	-	-	-
A3.10.1.1.5. TEWS Display (LRU-9A)											
A3.10.1.1.5.1. Theory of operation								-	-	-	-
A3.10.1.1.5.2. Operational check								-	-	-	-
A3.10.1.1.5.3. Troubleshoot/repair								-	-	-	-
A3.10.1.1.6. Low-Band Receiver/ (LRU-3C)											
A3.10.1.1.6.1. Theory of operation								-	-	-	-
A3.10.1.1.6.2. Operational check		*						1b	-	-	-
A3.10.1.1.6.3. Troubleshoot/repair								-	-	-	-
A3.10.1.1.7. High-Band Receiver (LRU-6C)											
A3.10.1.1.7.1. Theory of operation								-	-	-	-
A3.10.1.1.7.2. Operational check								-	-	-	-
A3.10.1.1.7.3. Troubleshoot/repair								-	-	-	-
A3.10.1.1.8. Power Supply Processor (LRU-2C)											
A3.10.1.1.8.1. Theory of operation								-	-	-	-
A3.10.1.1.8.2. Operational check								-	-	-	-
A3.10.1.1.8.3. Troubleshoot/repair								-	-	-	-
A3.10.1.2. AN/ALQ-135 system (Band 1 and 2) TR: TOs 12P3-2ALQ135-2 (S), 12P3-2ALQ135-8 series											
A3.10.1.2.1. RF Amplifiers											
A3.10.1.2.1.1. Theory of operation								-	-	-	-
A3.10.1.2.1.2. Operational check								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.10.1.2.1.3. Troubleshoot/repair								-	-	-	-
A3.10.1.2.2. Control Oscillators											
A3.10.1.2.2.1. Theory of operation								-	-	-	-
A3.10.1.2.2.2. Operational check								-	-	-	-
A3.10.1.2.2.3. Troubleshoot/repair								-	-	-	-
A3.10.1.2.3. Tuning Units											
A3.10.1.2.3.1. Theory of operation								-	-	-	-
A3.10.1.2.3.2. Operational check								-	-	-	-
A3.10.1.2.3.3. Troubleshoot/repair								-	-	-	-
A3.10.1.3. Band 3 AN/ALQ-135 System TR: TO 12P3-2ALQ135-12											
A3.10.1.3.1. Control Oscillators TR: TO 12P3-2ALQ135-18-8											
A3.10.1.3.1.1 Theory of operation TR: TO 12P3-2ALQ135-12								-	-	-	-
A3.10.1.3.1.2. Operational Check TR: TO 12P3-2ALQ135-18-8		*						-	-	-	-
A3.10.1.3.1.3. Troubleshoot/repair TR: TO 12P3-2ALQ135-12								-	-	-	-
A3.10.1.4. RF Amplifiers TR: TO 12P3-2ALQ135-18-4											
A3.10.1.4.1. Theory of operation TR: TO 12P3-2ALQ135-12								-	-	-	-
A3.10.1.4.2. Operational Check TR: TO 12P3-2ALQ135-18-4								-	-	-	-
A3.10.1.4.3. Troubleshoot/repair TR: TO 12P3-2ALQ135-12								-	-	-	-
A3.10.1.5. Advanced Repeater Tuning Unit TR: TO 12P3-2ALQ135-18-9											
A3.10.1.5.1. Theory of operation TR: TO 12P3-2ALQ135-12-1								-	-	-	-
A3.10.1.5.2. Operational Check TR: TO 12P3-2ALQ135-18-9								-	-	-	-
A3.10.1.5.3. Troubleshoot/repair TR: TO 12P3-2ALQ135-12-1								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.10.1.6.	AN/ALQ-128 System Receiver/Transmitter (LRU-201) TR: 12P3-2ALQ128-2 (S), 12P3-2ALQ128-48 series										
A3.10.1.6.1.	Theory of operation							-	-	-	-
A3.10.1.6.2.	Operational check							-	-	-	-
A3.10.1.6.3.	Troubleshoot/repair							-	-	-	-
A3.10.2.	TEWS Integration TR: TOs 1F-15A-2-99GS-00-1, 1F-15A-2-99GS-00-2 (S)							-	-	-	-
A3.10.3.	Program/reprogram Receiver/Processor TR: TO 12P3-2ALR56-78-6							-	-	-	-
A3.10.4.	Program/reprogram Power Supply Processor TR: 12P3-2ALR56-128-2							-	-	-	-
A3.10.5.	Program AN/ALQ-135 PROMS TR: TO 12P3-2ALQ135-8-61							-	-	-	-
A3.11.	AN/GSM-397 Electronic Systems Test Set (ESTS) TR: 33D7-38-305 series										
A3.11.1.	Station Configuration										
A3.11.1.1.	Major Assemblies							A	-	-	-
A3.11.1.2.	Peripheral Equipment							A	-	-	-
A3.11.2.	Theory of Operation										
A3.11.2.1.	System Controller							A	-	-	-
A3.11.2.2.	VXI Chassis							A	-	-	-
A3.11.2.3.	AC Power Equipment Assembly							A	-	-	-
A3.11.2.4.	DC Power Equipment Assembly							A	-	-	-
A3.11.2.5.	RF Equipment Assemblies							A	-	-	-
A3.11.2.6.	Power Equipment Assemblies							A	-	-	-
A3.11.3.	Station Signal Flow										
A3.11.3.1.	Power Path							B	-	-	-
A3.11.3.2.	MXI Bus Path							B	-	-	-
A3.11.3.3.	IEEE Bus Path							B	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.11.3.4. RF Path								B	-	-	-
A3.11.4. Station Operation											
A3.11.4.1. Use ESTS Menu System								2b	-	-	-
A3.11.4.2. Perform Confidence Test	*							2b	-	-	-
A3.11.4.3. Station Calibration								2b	-	-	-
A3.11.4.4. Fault Isolation								2b	-	-	-
A3.11.4.5. Perform Required Inspections	*							-	-	-	-
A3.12. ESTS LRU/SRUs TR: TOs 1F-15A-2-99GS-00-1, 1F-15A-2-99GS-00-2 (S)											
A3.12.1 Multipurpose Display Processor TR: TOs 11F47-13-14-8-20, 11F47-13-14-2											
A3.12.1.1. Theory of operation								-	-	-	-
A3.12.1.2. Operational check								-	-	-	-
A3.12.1.3. Troubleshoot/repair								-	-	-	-
A3.12.2. Analog to Digital Converter (038) TR: TOs 12P2-2APG70-48-37, 12P2-2APG70-42											
A3.12.2.1. Theory of operation								-	-	-	-
A3.12.2.2. Operational check		*						-	-	-	-
A3.12.2.3. Troubleshoot/repair								-	-	-	-
A3.12.3. Radio Frequency Oscillator TR: TOs 12P2-2APG63-78-10, 12P2-2APG63-72											
A3.12.3.1. Theory of operation								-	-	-	-
A3.12.3.2. Operational check								-	-	-	-
A3.12.3.3. Troubleshoot/repair								-	-	-	-
A3.12.4. Multipurpose Display Unit TR: TO 11F47-13-15-8-1											
A3.12.4.1. Theory of operation								-	-	-	-
A3.12.4.2. Operational check								-	-	-	-
A3.12.4.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.12.5. Radar Receiver (022) TR: TO 12P2-2APG63-18-1											
A3.12.5.1. Theory of operation								-	-	-	-
A3.12.5.2. Operational check	*							2b	-	-	-
A3.12.5.3. Troubleshoot/repair								-	-	-	-
A3.12.6. HUD											
A3.12.6.1. Theory of operation								-	-	-	-
A3.12.6.2. Operational check		*						2b/-	-	-	-
A3.12.6.3. Troubleshoot/repair								-	-	-	-
A3.12.7. Wide Field of View HUD											
A3.12.7.1. Theory of operation								-	-	-	-
A3.12.7.2. Operational check		*						-	-	-	-
A3.12.7.3. Troubleshoot/repair								-	-	-	-
A3.12.8. 025											
A3.12.8.1. Theory of operation								-	-	-	-
A3.12.8.2. Operational check	*							-	-	-	-
A3.12.8.3. Troubleshoot/repair								-	-	-	-
A3.12.9. Air Data Computer (ADC)											
A3.12.9.1. Theory of operation								-	-	-	-
A3.12.9.2. Operational check		*						-	-	-	-
A3.12.9.3. Troubleshoot/repair								-	-	-	-
A3.12.10. 039											
A3.12.10.1. Theory of operation								-	-	-	-
A3.12.10.2. Operational check		*						-	-	-	-
A3.12.10.3. Troubleshoot/repair								-	-	-	-
A3.12.11. 044											
A3.12.11.1. Theory of operation								-	-	-	-
A3.12.11.2. Operational check								-	-	-	-
A3.12.11.3. Troubleshoot/repair								-	-	-	-
A3.12.12. 081											
A3.12.12.1. Theory of operation								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.12.12.2. Operational check								-	-	-	-
A3.12.12.3. Troubleshoot/repair								-	-	-	-
A3.12.13. 082											
A3.12.13.1. Theory of operation								-	-	-	-
A3.12.13.2. Operational check								-	-	-	-
A3.12.13.3. Troubleshoot/repair								-	-	-	-
A3.12.14. ADF Control Amp											
A3.12.14.1. Theory of operation								-	-	-	-
A3.12.14.2. Operational check								-	-	-	-
A3.12.14.3. Troubleshoot/repair								-	-	-	-
A3.12.15. AIU#1											
A3.12.15.1. Theory of operation								-	-	-	-
A3.12.15.2. Operational check								-	-	-	-
A3.12.15.3. Troubleshoot/repair								-	-	-	-
A3.12.16. AIU#2											
A3.12.16.1. Theory of operation								-	-	-	-
A3.12.16.2. Operational check								-	-	-	-
A3.12.16.3. Troubleshoot/repair								-	-	-	-
A3.12.17. ANMI											
A3.12.17.1. Theory of operation								-	-	-	-
A3.12.17.2. Operational check		*						-	-	-	-
A3.12.17.3. Troubleshoot/repair								-	-	-	-
A3.12.18. Bit Control Panel											
A3.12.18.1. Theory of operation								-	-	-	-
A3.12.18.2. Operational check								-	-	-	-
A3.12.18.3. Troubleshoot/repair								-	-	-	-
A3.12.19. CLLU											
A3.12.19.1. Theory of operation								-	-	-	-
A3.12.19.2. Operational check								-	-	-	-
A3.12.19.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.12.20. DSA												
A3.12.20.1. Theory of operation								-	-	-	-	
A3.12.20.2. Operational check								-	-	-	-	
A3.12.20.3. Troubleshoot/repair								-	-	-	-	
A3.12.21. EAIC												
A3.12.21.1. Theory of operation								-	-	-	-	
A3.12.21.2. Operational check								-	-	-	-	
A3.12.21.3. Troubleshoot/repair								-	-	-	-	
A3.12.22. ECA												
A3.12.22.1. Theory of operation								-	-	-	-	
A3.12.22.2. Operational check								-	-	-	-	
A3.12.22.3. Troubleshoot/repair								-	-	-	-	
A3.12.23. ECSP												
A3.12.23.1. Theory of operation								-	-	-	-	
A3.12.23.2. Operational check								-	-	-	-	
A3.12.23.3. Troubleshoot/repair								-	-	-	-	
A3.12.24. Engine Monitor Display												
A3.12.24.1. Theory of operation								-	-	-	-	
A3.12.24.2. Operational check								-	-	-	-	
A3.12.24.3. Troubleshoot/repair								-	-	-	-	
A3.12.25. FCC												
A3.12.25.1. Theory of operation								-	-	-	-	
A3.12.25.2. Operational check								-	-	-	-	
A3.12.25.3. Troubleshoot/repair								-	-	-	-	
A3.12.26. FDA												
A3.12.26.1. Theory of operation								-	-	-	-	
A3.12.26.2. Operational check								-	-	-	-	
A3.12.26.3. Troubleshoot/repair								-	-	-	-	
A3.12.27. G-Meter												
A3.12.27.1. Theory of operation								-	-	-	-	
A3.12.27.2. Operational check								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.12.27.3. Troubleshoot/repair								-	-	-	-
A3.12.28. IB											
A3.12.27.1. Theory of operation								-	-	-	-
A3.12.27.2. Operational check								-	-	-	-
A3.12.27.3. Troubleshoot/repair								-	-	-	-
A3.12.29. ICCP											
A3.12.29.1. Theory of operation								-	-	-	-
A3.12.29.2. Operational check								-	-	-	-
A3.12.29.3. Troubleshoot/repair								-	-	-	-
A3.12.30. ICCP HQ											
A3.12.30.1. Theory of operation								-	-	-	-
A3.12.30.2. Operational check								-	-	-	-
A3.12.30.3. Troubleshoot/repair								-	-	-	-
A3.12.31. ICSCP											
A3.12.31.1. Theory of operation								-	-	-	-
A3.12.31.2. Operational check								-	-	-	-
A3.12.31.3. Troubleshoot/repair								-	-	-	-
A3.12.32. IFF C/P											
A3.12.32.1. Theory of operation								-	-	-	-
A3.12.32.2. Operational check								-	-	-	-
A3.12.32.3. Troubleshoot/repair								-	-	-	-
A3.12.33. ILS Receiver											
A3.12.33.1. Theory of operation								-	-	-	-
A3.12.33.2. Operational check								-	-	-	-
A3.12.33.3. Troubleshoot/repair								-	-	-	-
A3.12.34. IRE											
A3.12.34.1. Theory of operation								-	-	-	-
A3.12.34.2. Operational check								-	-	-	-
A3.12.34.3. Troubleshoot/repair								-	-	-	-
A3.12.35. MPCD											
A3.12.35.1. Theory of operation								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.12.35.2. Operational check								-	-	-	-
A3.12.35.3. Troubleshoot/repair								-	-	-	-
A3.12.36. NCI											
A3.12.36.1. Theory of operation								-	-	-	-
A3.12.36.2. Operational check								-	-	-	-
A3.12.36.3. Troubleshoot/repair								-	-	-	-
A3.12.37. PACS CP											
A3.12.37.1. Theory of operation								-	-	-	-
A3.12.37.2. Operational check								-	-	-	-
A3.12.37.3. Troubleshoot/repair								-	-	-	-
A3.12.38. Pitch Computer											
A3.12.38.1. Theory of operation								-	-	-	-
A3.12.38.2. Operational check								-	-	-	-
A3.12.38.3. Troubleshoot/repair								-	-	-	-
A3.12.39. PSDP											
A3.12.39.1. Theory of operation								-	-	-	-
A3.12.39.2. Operational check								-	-	-	-
A3.12.39.3. Troubleshoot/repair								-	-	-	-
A3.12.40. Radar Set Control											
A3.12.40.1. Theory of operation								-	-	-	-
A3.12.40.2. Operational check								-	-	-	-
A3.12.40.3. Troubleshoot/repair								-	-	-	-
A3.12.41. Radar Set Control (MISIP/70)											
A3.12.41.1. Theory of operation								-	-	-	-
A3.12.41.2. Operational check								-	-	-	-
A3.12.41.3. Troubleshoot/repair								-	-	-	-
A3.12.42. RMR											
A3.12.42.1. Theory of operation								-	-	-	-
A3.12.42.2. Operational check								-	-	-	-
A3.12.42.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.12.43. Roll/Yaw Computer											
A3.12.43.1. Theory of operation								-	-	-	-
A3.12.43.2. Operational check								-	-	-	-
A3.12.43.3. Troubleshoot/repair								-	-	-	-
A3.12.44. RSA											
A3.12.44.1. Theory of operation								-	-	-	-
A3.12.44.2. Operational check								-	-	-	-
A3.12.44.3. Troubleshoot/repair								-	-	-	-
A3.12.45. TACAN Mount											
A3.12.45.1. Theory of operation								-	-	-	-
A3.12.45.2. Operational check								-	-	-	-
A3.12.45.3. Troubleshoot/repair								-	-	-	-
A3.12.46. UFCP											
A3.12.46.1. Theory of operation								-	-	-	-
A3.12.46.2. Operational check								-	-	-	-
A3.12.46.3. Troubleshoot/repair								-	-	-	-
A3.12.47. VCC											
A3.12.47.1. Theory of operation								-	-	-	-
A3.12.47.2. Operational check								-	-	-	-
A3.12.47.3. Troubleshoot/repair								-	-	-	-
A3.12.48. 042											
A3.12.48.1. Theory of operation								-	-	-	-
A3.12.48.2. Operational check								-	-	-	-
A3.12.48.3. Troubleshoot/repair								-	-	-	-
A3.12.49. HUD/SDP											
A3.12.49.1. Theory of operation								-	-	-	-
A3.12.49.2. Operational check								-	-	-	-
A3.12.49.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.13. COMMON AUTOMATIC TEST EQUIPMENT (CATE) TR: TOs 00-25-234, 33-1-161 series, 33-1-168-3												
A3.13.1. Signal flow within and between common TRUs												
A3.13.1.1. Computer Control and Display Panel (CCDP) TR: TO 33DA3-63-1								-	-	-	-	
A3.13.1.2. Punch Tape Reader (PTR) TR: TO 33D7-12-110-1								-	-	-	-	
A3.13.1.3. Mass Storage Unit (MSU) TR: TO 33D7-63-10-1								-	-	-	-	
A3.13.1.4. Printer TR: TO 33DA108-3-1								-	-	-	-	
A3.13.1.5. External Control Panel (ECP) TR: TO 33DA3-64-1								-	-	-	-	
A3.13.1.6. Power Distribution Panel (PDP) TR: TO 8A25-28-1								-	-	-	-	
A3.13.1.7. Test Station Power Supply (TSPS) TR: TO 33AA17-125-1								-	-	-	-	
A3.13.1.8. Alternating Current Regulated Power Supply (ACRPS) TR: TO 33DA38-15-1								-	-	-	-	
A3.13.1.9. AUX A TR: TO 33D7-50-120-1								-	-	-	-	
A3.13.1.10. AUX B TR: TO 33DA3-63-1								-	-	-	-	
A3.13.1.11. Digital Interface Adapter (DIA) TR: TO 33D7-50-120-1								-	-	-	-	
A3.13.1.12. DIA AUX TR: TO 33D7-50-120-1								-	-	-	-	
A3.13.1.13. Line Replaceable Unit Blower Panel (LRUBP)								-	-	-	-	
A3.13.1.14. Switching Complex TR: TO 33DA86-22-1								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.13.2. Perform common test procedures TR: TOs 33-1-168-3, 3D7-3-160-8 series, 33D7-44-213-8 series, 33D7-77-17-8 series								-	-	-	-
A3.13.3. Isolate/repair malfunctions								-	-	-	-
A3.14. MODERNIZED AUTOMATIC TEST EQUIPMENT (MATE) TR: TOs 00-25-234, 1F-15A-01, 31S5-4-3049 series, 33-1-161 series, 33D7-3-168 series, 33D7-69-17 series											
A3.14.1. Perform test station turn on procedures								1b	-	-	-
A3.14.2. User AIS menu system											
A3.14.2.1. Unit Under Test (UUT) Test Executive								1b	-	-	-
A3.14.2.2. Station Maintenance Procedures								-	-	-	-
A3.14.2.3. Transcription and File Utilities								-	-	-	-
A3.14.2.4. Station Log and Message Utilities								-	-	-	-
A3.14.2.5. Help on menu system usage								-	-	-	-
A3.14.3. Classified Operating System (COS)											
A3.14.3.1. Invoke COS								-	-	-	-
A3.14.3.2. Declassify test station								-	-	-	-
A3.14.4. Signal flow within and between common TRUs											
A3.14.4.1. PDP TR: TO 8A25-28-1								-	-	-	-
A3.14.4.2. TSPS TR: TO 33AA17-125-1								-	-	-	-
A3.14.4.3. ACRPS TR: TO 33DA38-15-1								-	-	-	-
A3.14.4.4. I/O PS TR: TO 33DA108-3-1								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.14.4.5. DIA TR: TO 33D7-50-120-1								B	-	-	-
A3.14.4.6. DIA AUX TR: TO 33D7-50-120-1								B	-	-	-
A3.14.4.7. LRUBP								-	-	-	-
A3.14.4.8. Switching Complex TR: TO 33DA86-22-1								B	-	-	-
A3.14.4.9. Common Maintenance Test Package (CMTP) (W2)								-	-	-	-
A3.14.4.10. Station Controller Unit TR: TO 33D7-47-112-1								B	-	-	-
A3.14.4.11. Video Monitor								-	-	-	-
A3.14.4.12. Disk/Magnetic Tape Unit TR: TOs 33D7-3-291-1, 33D7-3-291-2								B	-	-	-
A3.14.4.13. Keyboard TR: TO 31S5-4-3050-1								-	-	-	-
A3.14.4.14. Printer TR: TO 31S5-4-1733-1								-	-	-	-
A3.14.4.15. Punched Tape Unit TR: TO 33DA121-14-1								-	-	-	-
A3.15. MODERNIZED MICROWAVE TEST STATION TR: TOs 31S5-4-1733-1, 31S5-4-3049-1, 31S5-4-3050-1, 33D7-10 series, 33D7-44-314, 33D7-44-112-1, 33D7-69-17-1, 33DA86-57-1 series											
A3.15.1. Theory of operation								-	-	-	-
A3.15.2. Signal flow within and between peculiar TRUs											
A3.15.2.1. Intermediate Frequency Signal Source (IFSS) TR: TO 33A1-8-717-1								-	-	-	-
A3.15.2.2. Microwave Signal Switching Unit (MSSU) TR: TO 33DA86-21-1								-	-	-	-
A3.15.2.3. X-Band Signal Source (XBSS) TR: TO 33A1-8-722-1								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.15.2.4. Phase Meter TR: TO 33A1-12-1002-1								-	-	-	-
A3.15.2.5. Microwave Noise Analyzer TR: TO 33D7-10-77-1								-	-	-	-
A3.15.2.6. Spectrum Analyzer TR: TO 33D7-10-85-1								-	-	-	-
A3.15.2.7. LRU Power Supply No. 1								-	-	-	-
A3.15.2.8. LRU Power Supply No. 2								-	-	-	-
A3.15.2.9. Signal Function Generator TR: TO 33A1-8-716-1								-	-	-	-
A3.15.2.10. Impedance Unit (LOAD)								-	-	-	-
A3.15.2.11. AUX C								-	-	-	-
A3.15.2.12. Microwave Generator (1 and 2)								-	-	-	-
A3.15.2.13. Microwave Interface								-	-	-	-
A3.15.2.14. Rubidium Standard								-	-	-	-
A3.15.2.15. Phasemeter TR: TO 33A1-12-1002-1								-	-	-	-
A3.15.3. Perform Confidence test	*							-	-	-	-
A3.15.4. Perform OA/FI	*							-	-	-	-
A3.15.5. Isolate/repair malfunctions								-	-	-	-
A3.15.6. Perform MSSU harmonization procedures		*						-	-	-	-
A3.15.7. Perform required inspections	*							-	-	-	-
A3.15.8. Use External Oscilloscope (Unit 5)								-	-	-	-
A3.16. MICROWAVE LRUs/SRUs TR: TOs 00-25-234, 1F-15A-01, 12P2-2APG63 series, 12P4-2A series, 33-1-161 series, 33D7-44-213-1, 33D7-50-1-141											
A3.16.1. Radar Receiver (022)											
A3.16.1.1. Theory of operation								-	-	-	-
A3.16.1.2. Operational check	*							-	-	-	-
A3.16.1.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.16.2. Radar Exciter (001)											
A3.16.2.1. Theory of operation								-	-	-	-
A3.16.2.2. Operational check								-	-	-	-
A3.16.2.3. Troubleshoot/repair								-	-	-	-
A3.16.3. Analog Radar Data Processor (039)											
A3.16.3.1. Theory of operation								-	-	-	-
A3.16.3.2. Operational check		*						-	-	-	-
A3.16.3.3. Troubleshoot/repair								-	-	-	-
A3.16.4. Radar Data Processor (081)											
A3.16.4.1. Theory of operation								-	-	-	-
A3.16.4.2. Operational check								-	-	-	-
A3.16.4.3. Troubleshoot/repair								-	-	-	-
A3.16.5. Interface Blanker (IB)											
A3.16.5.1. Theory of operation								-	-	-	-
A3.16.5.2. Operational check								-	-	-	-
A3.16.5.3. Troubleshoot/repair								-	-	-	-
A3.16.6. Radar Receiver/Exciter (025)											
A3.16.6.1. Theory of operation								-	-	-	-
A3.16.6.2. Operational check		*						-	-	-	-
A3.16.6.3. Troubleshoot/repair								-	-	-	-
A3.16.7. Radar Data Processor (082)											
A3.16.7.1. Theory of operation								-	-	-	-
A3.16.7.2. Operational check								-	-	-	-
A3.16.7.3. Troubleshoot/repair								-	-	-	-
A3.16.8. Analog to Digital Converter (038)											
A3.16.8.1. Theory of operation								-	-	-	-
A3.16.8.2. Operational check		*						-	-	-	-
A3.16.8.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.17. MODERNIZED DISPLAYS TEST STATION TR: TOs 00-25-234, 1F-15A-01, 33-1-161 series, 33A1-8-721-1, 33D7-44-213-8-2, 33D7-77-17 series												
A3.17.1. Theory of operation								A	-	-	-	
A3.17.2. Signal flow within and between peculiar TRUs												
A3.17.2.1. Video Unit/Display Monitor (VU/DM)								-	-	-	-	
A3.17.2.2. Display Unit Test Assembly, Power Distribution Panel (DUTA PDP)								-	-	-	-	
A3.17.2.3. Impedance Unit (LDD)								-	-	-	-	
A3.17.2.4. Power Supply No. 1 (PSAD)								A	-	-	-	
A3.17.2.5. Power Supply No. 2 (LRUPS)								-	-	-	-	
A3.17.2.6. Pulse Generator (PULSGEN)								-	-	-	-	
A3.17.2.7. IFF Reply Evaluator Adapter (IFFREA)								-	-	-	-	
A3.17.2.8. LRU Power Supply (PSLRU)								-	-	-	-	
A3.17.2.9. Signal Function Generator (SIGS)								-	-	-	-	
A3.17.3. Perform Confidence test		*						2b	-	-	-	
A3.17.4. Perform OA/FI		*						-	-	-	-	
A3.17.5. Isolate/repair malfunctions								b	-	-	-	
A3.17.6. Perform DUTA alignment								-	-	-	-	
A3.17.7. Perform required inspections		*						-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.18. DISPLAYS LRUs/SRUs TR: TOs 00-25-234, 1F-15A-01, 4BA2 series, 5A46 series, 5F8 series, 11F13 series, 11F32 series, 11F97 series, 12P2-2APG63 series, 12P2-2APG70 series, 12P4-2APX series, 33-1-161 series, 33D7-50-1-131, 33D7-77-17-1												
A3.18.1. Air Navigation Multiple Indicator (ANMI)												
A3.18.1.1. Theory of operation								-	-	-	-	
A3.18.1.2. Operational check		*						-	-	-	-	
A3.18.1.3. Troubleshoot/repair								-	-	-	-	
A3.18.2. Digital Radar Processor (044)												
A3.18.2.1. Theory of operation								-	-	-	-	
A3.18.2.2. Operational check								-	-	-	-	
A3.18.2.3. Troubleshoot/repair								-	-	-	-	
A3.18.3. Digital Radar Signal Processor (042)												
A3.18.3.1. Theory of operation								-	-	-	-	
A3.18.3.2. Operational check								-	-	-	-	
A3.18.3.3. Troubleshoot/repair								-	-	-	-	
A3.18.4. Digital Radar Target Data Processor (041)												
A3.18.4.1. Theory of operation								-	-	-	-	
A3.18.4.2. Operational check								-	-	-	-	
A3.18.4.3. Troubleshoot/repair								-	-	-	-	
A3.18.5. Dispensing Switch Assembly												
A3.18.5.1. Theory of operation								-	-	-	-	
A3.18.5.2. Operational check								-	-	-	-	
A3.18.5.3. Troubleshoot/repair								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.18.6. Multi Purpose Display Processor (MPDP)												
A3.18.6.1. Theory of operation								-	-	-	-	
A3.18.6.2. Operational check								-	-	-	-	
A3.18.6.3. Troubleshoot/repair								-	-	-	-	
A3.18.7. Electronic Command Signal Processor												
A3.18.7.1. Theory of operation								-	-	-	-	
A3.18.7.2. Operational check								-	-	-	-	
A3.18.7.3. Troubleshoot/repair								-	-	-	-	
A3.18.8. Flight Director Adapter (FDA)												
A3.18.8.1. Theory of operation								-	-	-	-	
A3.18.8.2. Operational check								-	-	-	-	
A3.18.8.3. Troubleshoot/repair								-	-	-	-	
A3.18.9. Head-Up Display (HUD)												
A3.18.9.1. Theory of operation								-	-	-	-	
A3.18.9.2. Operational check		*						-	-	-	-	
A3.18.9.3. Troubleshoot/repair								-	-	-	-	
A3.18.10. Horizontal Situation Indicator (HSI)												
A3.18.10.1. Theory of operation								-	-	-	-	
A3.18.10.2. Operational check								-	-	-	-	
A3.18.11. HUD Signal Data Processor (HUD SDP)												
A3.18.11.1. Theory of operation								-	-	-	-	
A3.18.11.2. Operational check								-	-	-	-	
A3.18.11.3. Troubleshoot/repair								-	-	-	-	
A3.18.12. Miscellaneous Relay Assembly (MRA)												
A3.18.12.1. Theory of operation								-	-	-	-	
A3.18.12.2. Operational check								-	-	-	-	
A3.18.12.3. Troubleshoot/repair								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.18.13. Multipurpose Color Display Processor (MPCD)											
A3.18.13.1. Theory of operation								-	-	-	-
A3.18.13.2. Operational check								-	-	-	-
A3.18.13.3. Troubleshoot/repair								-	-	-	-
A3.18.14. Multi-Purpose Display (MPD)											
A3.18.14.1. Theory of operation								-	-	-	-
A3.18.14.2. Operational check								2b	-	-	-
A3.18.14.3. Troubleshoot/repair								-	-	-	-
A3.18.15. Programmable CP (PAC CP)											
A3.18.15.1. Theory of operation								-	-	-	-
A3.18.15.2. Operational check								-	-	-	-
A3.18.15.3. Troubleshoot/repair								-	-	-	-
A3.18.16. Programmable signal Data Processor (PSDP)											
A3.18.16.1. Theory of operation								-	-	-	-
A3.18.16.2. Operational check								-	-	-	-
A3.18.16.3. Reprogram								b	-	-	-
A3.18.16.4. Troubleshoot/repair								-	-	-	-
A3.18.17. Radar Target Data Processor (IRE)											
A3.18.17.1. Theory of operation								-	-	-	-
A3.18.17.2. Operational check								-	-	-	-
A3.18.17.3. Troubleshoot/repair								-	-	-	-
A3.18.18. Skid Controller											
A3.18.18.1. Theory of operation								-	-	-	-
A3.18.18.2. Operational check								-	-	-	-
A3.18.18.3. Troubleshoot/repair								-	-	-	-
A3.18.19. Wide Field of View HUD											
A3.18.19.1. Theory of operation								-	-	-	-
A3.18.19.2. Operational check		*						-	-	-	-
A3.18.19.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.19.	MODERNIZED COMPUTER TEST STATION TR: TOs 00-25-234, 1F-15A-01, 33-1-161 series, 33A1-8-716-1, 33A4-8-8-1, 33D2-8-359-1, 33D7-17-47-1, 33D7-3160 series, 33DA38-14-1, 33DA71-4-1												
A3.19.1.	Theory of operation								-	-	-	-	
A3.19.2.	Signal flow within and between peculiar TRUs												
A3.19.2.1.	Converter Signal Simulator Unit (CSSU)								-	-	-	-	
A3.19.2.2.	Impedance Unit (LDC)								-	-	-	-	
A3.19.2.3.	Pneumatic Pressure Generator System (PNEUG)								-	-	-	-	
A3.19.2.4.	Programmable Precision Power Supply (PPPS)								-	-	-	-	
A3.19.2.5.	Power Supply Assembly (PSA)								-	-	-	-	
A3.19.2.6.	Precision Synchro Unit (PSU)								-	-	-	-	
A3.19.2.7.	Programmable Transformer Converter (PTC)								-	-	-	-	
A3.19.2.8.	Waveform Function Generator (WFG)								-	-	-	-	
A3.19.2.9.	Precision Synchro Signal Converter (PSSC)								-	-	-	-	
A3.19.2.10.	Scorsby Table								-	-	-	-	
A3.19.2.11.	Rate Table								-	-	-	-	
A3.19.3.	Perform Confidence test	*							-	-	-	-	
A3.19.4.	Perform OA/FI	*							-	-	-	-	
A3.19.5.	Isolate/repair malfunctions								-	-	-	-	
A3.19.6.	Level												
A3.19.6.1.	Scorsby Table								-	-	-	-	
A3.19.6.2.	Rate Table								-	-	-	-	
A3.19.6.3.	Attitude Simulator												
A3.19.7.	Perform required inspections	*							-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.20.											
A3.20.1.											
A3.20.1.1.								-	-	-	-
A3.20.1.2.								-	-	-	-
A3.20.1.3.								-	-	-	-
A3.20.2.											
A3.20.2.1.								-	-	-	-
A3.20.2.2.								-	-	-	-
A3.20.2.3.								-	-	-	-
A3.20.3.											
A3.20.3.1.								-	-	-	-
A3.20.3.2.	*							-	-	-	-
A3.20.3.3.								-	-	-	-
A3.20.4.											
A3.20.4.1.								-	-	-	-
A3.20.4.2.								-	-	-	-
A3.20.4.3.								-	-	-	-
A3.20.5.											
A3.20.5.1.								-	-	-	-
A3.20.5.2.								-	-	-	-
A3.20.5.3.								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.20.6. Cabin Circuit Airflow/Temp Controller (CCAC)											
A3.20.6.1. Theory of operation								-	-	-	-
A3.20.6.2. Operational check								-	-	-	-
A3.20.6.3. Troubleshoot/repair								-	-	-	-
A3.20.7. VHSIC Central Computer (VCC)											
A3.20.7.1. Reprogram								-	-	-	-
A3.20.8. Compass Calibrator Control Unit											
A3.20.8.1. Theory of operation								-	-	-	-
A3.20.8.2. Operational check								-	-	-	-
A3.20.8.3. Troubleshoot/repair								-	-	-	-
A3.20.9. Digital Readout Electronic Counter											
A3.20.9.1. Theory of operation								-	-	-	-
A3.20.9.2. Operational check								-	-	-	-
A3.20.9.3. Troubleshoot/repair								-	-	-	-
A3.20.10. Displacement Gyro (DG)											
A3.20.10.1. Theory of operation								-	-	-	-
A3.20.10.2. Operational check								-	-	-	-
A3.20.11. Dynamic Pressure Assembly											
A3.20.11.1. Theory of operation								-	-	-	-
A3.20.11.2. Operational check								-	-	-	-
A3.20.11.3. Troubleshoot/repair								-	-	-	-
A3.20.12. Electronic Air Inlet Controller (EAIC)											
A3.20.12.1. Theory of operation								-	-	-	-
A3.20.12.2. Operational check		*						-	-	-	-
A3.20.12.3. Troubleshoot/repair								-	-	-	-
A3.20.13. Electronic Control Amp (ECA)											
A3.20.13.1. Theory of operation								-	-	-	-
A3.20.13.2. Operational check								-	-	-	-
A3.20.13.3. Troubleshoot/repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.20.14. Electronic Linear Accelerometer												
A3.20.14.1. Theory of operation								-	-	-	-	
A3.20.14.2. Operational check								-	-	-	-	
A3.20.15. Engine Ice Detector												
A3.20.15.1. Theory of operation								-	-	-	-	
A3.20.15.2. Operational check								-	-	-	-	
A3.20.15.3. Troubleshoot/repair								-	-	-	-	
A3.20.16. Gyroscope Vertical Reference Standby Indicator												
A3.20.16.1. Theory of operation								-	-	-	-	
A3.20.16.2. Operational check								-	-	-	-	
A3.20.16.3. Troubleshoot/repair								-	-	-	-	
A3.20.17. Lead Computing Gyro (LCG)												
A3.20.17.1. Theory of operation								-	-	-	-	
A3.20.17.2. Operational check								-	-	-	-	
A3.20.17.3. Troubleshoot/repair								-	-	-	-	
A3.20.18. Magnetic Azimuth Detector (MAD)												
A3.20.18.1. Theory of operation								-	-	-	-	
A3.20.18.2. Operational check								-	-	-	-	
A3.20.19. Navigation Control Indicator (NCI)												
A3.20.19.1. Theory of operation								-	-	-	-	
A3.20.19.2. Operational check		*						-	-	-	-	
A3.20.19.3. Troubleshoot/repair								-	-	-	-	
A3.20.20. Pitch Computer												
A3.20.20.1. Theory of operation								-	-	-	-	
A3.20.20.2. Operational check								-	-	-	-	
A3.20.20.3. Troubleshoot/repair								-	-	-	-	
A3.20.21. Pressure Altimeter												
A3.20.21.1. Theory of operation								-	-	-	-	
A3.20.21.2. Operational check								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.20.22. Pressurized Compartment Altimeter												
A3.20.22.1. Theory of operation								-	-	-	-	
A3.20.22.2. Operational check								-	-	-	-	
A3.20.23. Rate Sensor Assembly												
A3.20.23.1. Theory of operation								-	-	-	-	
A3.20.23.2. Operational check								-	-	-	-	
A3.20.23.3. Troubleshoot/repair								-	-	-	-	
A3.20.24. Roll/Yaw Computer												
A3.20.24.1. Theory of operation								-	-	-	-	
A3.20.24.2. Operational check								-	-	-	-	
A3.20.24.3. Troubleshoot/repair								-	-	-	-	
A3.20.25. Standby Airspeed Indicator												
A3.20.25.1. Theory of operation								-	-	-	-	
A3.20.25.2. Operational check								-	-	-	-	
A3.20.26. Signal Data Recorder (SDR)												
A3.20.26.1. Theory of operation								-	-	-	-	
A3.20.26.2. Operational check								-	-	-	-	
A3.20.26.3. Troubleshoot/repair								-	-	-	-	
A3.20.27. Inertial Navigation Unit (Honeywell) TR: 5N1-4-22-2												
A3.20.27.1. Theory of operation								-	-	-	-	
A3.20.27.2. Operational check								-	-	-	-	
A3.20.27.3. Troubleshoot/repair								-	-	-	-	
A3.20.28. Inertial Navigation Unit TR: 5N1-4-22-2												
A3.20.28.1. Theory of operation								-	-	-	-	
A3.20.28.2. Operational check								-	-	-	-	
A3.20.28.3. Troubleshoot/repair								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.21. PROPULSION MANAGEMENT SYSTEM												
A3.21.1 Engine Analyzer Unit (EAU) TR: TO 33D4-6-684												
A3.21.1.1. Theory of Operation								-	A	-	-	
A3.21.1.2. Operational Check								-	-	-	-	
A3.21.1.3. Troubleshoot/repair								-	-	-	-	
A3.21.2. Field Reprogramming Set												
A3.21.2.1. Theory of Operation								-	A	-	-	
A3.21.2.2. Operate								-	-	-	-	
A3.21.3. Engine Diagnostic Unit (EDU) TR: TO 5E1-2-15-2												
A3.21.3.1. Theory of Operation								-	A	-	-	
A3.21.3.2. Operational Check								-	-	-	-	
A3.21.3.3. Reprogram								-	-	-	-	
A3.21.3.4. Troubleshoot/repair								-	-	-	-	
A3.21.4. Digital Electronic Engine Control (DEEC) TR: TO 6J3-4-117-2												
A3.21.4.1. Theory of Operation								-	A	-	-	
A3.21.4.2. Operational Check								-	-	-	-	
A3.21.4.3. Reprogram								-	-	-	-	
A3.21.4.4. Troubleshoot/repair								-	-	-	-	
A3.22. INTERIM MEMORY LOADER VERIFIER (IMLV)/DIGITAL COMPUTER SYSTEM (DCS)/PROGRAMMABLE LOADER VERIFIER (PLV) TERMINALS TR: TOs 33D7-68-38-1, 33D7-68-39-1												
A3.22.1. Theory of operation								-	-	-	-	
A3.22.2. Perform serene byte/pacerware reprogramming procedures		*						-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.22.3. Programmer Loader Verifier (New Technology) AN/ASM 700												
A3.22.3.1. Perform Self Test TR: TO 33DA112-23-1								-	-	-	-	
A3.22.3.2. Perform Software Utilities TR: TO 33DA112-23-1								-	-	-	-	
A3.22.3.3. Troubleshoot and Repair TR: TOs 33DA112-23-1, 33D7-50-2234-1								-	-	-	-	
A3.22.3.4. Import/Install BBS OFP/PFM Data onto PLV-NT TR: TO 33D7-3-326-8-3, STU-III Users Guide Serene Byte/Pacer Ware Training Folder, BBS Access and User Guide Book								-	-	-	-	
A3.22.3.5. Transfer OFP/PFM Data from PLV-NT to TISS TR: TO 33D7-3-326-8-3, STU-III Users Guide Serene Byte/Pacer Ware Training Folder, BBS Access and User Guide Book								-	-	-	-	
A3.22.3.6. Transfer OFP/PFM Data from PLV-NT to AIS TR: TO 33D7-3-326-8-3, STU-III Users Guide Serene Byte/Pacer Ware Training Folder, BBS Access and User Guide Book								-	-	-	-	
A3.23. CRYPTO SYSTEMS (C)												
A3.23.1. Transponder Computer (KIT) TR: TO KAM-225/TSEC (C)												
A3.23.1.1. Theory of operation								-	-	-	-	
A3.23.1.2. Perform operational checks								-	-	-	-	
A3.23.1.3. Troubleshoot malfunctions								-	-	-	-	
A3.23.1.4. Repair								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.23.2. Interrogator Computer (KIR) TR: TO KAM-225/TSEC (C)												
A3.23.2.1. Theory of operation								-	-	-	-	
A3.23.2.2. Perform operational checks								-	-	-	-	
A3.23.2.3. Troubleshoot malfunctions								-	-	-	-	
A3.23.2.4. Repair								-	-	-	-	
A3.23.3. TSEC/ST-21 Test Set TR: TO SAM-22B/TSEC (C)												
A3.23.3.1. Theory of operation								-	-	-	-	
A3.23.3.2. Perform operational checks								-	-	-	-	
A3.23.3.3. Troubleshoot malfunctions								-	-	-	-	
A3.23.3.4. Repair								-	-	-	-	
A3.23.4. Secure Voice (KY-58) TR: TOs KAM-337A/TSEC (C), KAM-339A/TSEC (C)												
A3.23.4.1. Theory of operation								-	-	-	-	
A3.23.4.2. Perform operational checks								-	-	-	-	
A3.23.4.3. Troubleshoot malfunctions								-	-	-	-	
A3.23.4.4. Repair								-	-	-	-	
A3.24. UHF COMMUNICATION SYSTEM (ARC-164) TR: TOs 00-25-234, 12R2-2ARC164-2, 12R2-2ARC164-32, 12R2-2ARC164-92, 33D7-50-159-1, 33D7-50-159-2, 49B3-39-2												
A3.24.1. Control Box												
A3.24.1.1. Theory of operation								-	-	-	-	
A3.24.1.2. Perform operational check								-	-	-	-	
A3.24.2. Receiver-Transmitter												
A3.24.2.1. Theory of operation								-	-	-	-	
A3.24.2.2. Perform operational check								-	-	-	-	
A3.24.2.3. Troubleshoot malfunctions								-	-	-	-	
A3.24.2.4. Repair								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.24.2.5. Align								-	-	-	-
A3.25. IDENTIFICATION FRIEND OR FOE (IFF) TRANSPONDER SYSTEM AND IFF TEST EQUIPMENT GROUP TR: TOs 00-25-234, 12P4-2APX-142, 12P4-2APX-192, 12P4-2APX-202, 12P4-2APX64-2, 12P4-2APX64-2CL-1, 33A1-3-358-1, 33A1-3-358-11, 33A1-3-426-1-1, 33A1-3-426-1-2, 33A1-8-468-1, 33D9-44-4-2											
A3.25.1. Control Box											
A3.25.1.1. Theory of operation								-	-	-	-
A3.25.1.2. Perform operational check								-	-	-	-
A3.25.1.3. Troubleshoot malfunctions								-	-	-	-
A3.25.1.4. Repair								-	-	-	-
A3.25.2. Receiver-Transmitter											
A3.25.2.1. Theory of operation								-	-	-	-
A3.25.2.2. Perform operational check								-	-	-	-
A3.25.2.3. Troubleshoot malfunctions								-	-	-	-
A3.25.2.4. Repair								-	-	-	-
A3.25.2.5. Align								-	-	-	-
A3.25.3. Other LRUs/SRUs											
A3.25.3.1. Theory of operation								-	-	-	-
A3.25.3.2. Perform operational check								-	-	-	-
A3.25.3.3. Troubleshoot malfunctions								-	-	-	-
A3.25.3.4. Repair								-	-	-	-

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A3.26. TACAN SYSTEM LRUs/SRUs AND TACAN TEST EQUIPMENT GROUP TR: TOs 00-25-234, 12R5-2ARN118-12, 33D2-8-383-1												
A3.26.1. Control Box												
A3.26.1.1. Theory of operation								-	-	-	-	
A3.26.1.2. Perform operational check								-	-	-	-	
A3.26.2. Converter												
A3.26.2.1. Theory of operation								-	-	-	-	
A3.26.2.2. Perform operational check								-	-	-	-	
A3.26.3. Receiver-Transmitter												
A3.26.3.1. Theory of operation								-	-	-	-	
A3.26.3.2. Perform operational check								-	-	-	-	
A3.26.4. Other LRUs/SRUs												
A3.26.4.1. Theory of operation								-	-	-	-	
A3.26.4.2. Perform operational check								-	-	-	-	
A3.27. HF COMMUNICATIONS SYSTEM (ARC-190) TR: TOs 12R2-2ARC190 series, 12R2-4-242 series, 33D7-71-40-1												
A3.27.1. Antenna Coupler												
A3.27.1.1. Theory of operation								-	-	-	-	
A3.27.1.2. Perform operational check								-	-	-	-	
A3.27.2. Control Box												
A3.27.2.1. Theory of operation								-	-	-	-	
A3.27.2.2. Perform operational check								-	-	-	-	
A3.27.3. Radio System Mount												
A3.27.3.1. Theory of operation								-	-	-	-	
A3.27.3.2. Perform operational check								-	-	-	-	
A3.27.4. Receiver-Transmitter												
A3.27.4.1. Theory of operation								-	-	-	-	

2A0X1 TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A3.27.4.2. Perform operational check								-	-	-	-
A3.28. DATA LINK SYSTEM AND DATA LINK EQUIPMENT GROUP											
A3.28.1. Television Receiver Transmitter POD RT-1210/AXQ-14 maintenance TR: TO 11F34-4-4-2											
A3.28.1.1. Theory of Operation								-	A	-	-
A3.28.1.2. Perform 90 day preventative maintenance inspection								-	-	-	-
A3.28.1.3. Perform operational checks								-	-	-	-
A3.28.1.4. Troubleshoot								-	-	-	-
A3.28.1.5. Repair								-	-	-	-
A3.28.2. Aircraft Simulator OQ-283/GJM-59 TR: TO 33D7-88-14-1											
A3.28.2.1. Theory of Operation								-	A	-	-
A3.28.2.2. Verification and calibration								-	-	-	-
A3.28.2.3. Troubleshoot								-	-	-	-
A3.28.2.4. Repair								-	-	-	-
A3.28.3. Weapon Data Link Simulator OH-55/GJM-59 TR: TO 33D7-88-14-1											
A3.28.3.1. Theory of Operation								-	A	-	-
A3.28.3.2. Verification and calibration								-	-	-	-
A3.28.3.3. Troubleshoot								-	-	-	-
A3.28.3.4. Repair								-	-	-	-
A3.29. MOBILE FACILITIES TR: TO 35E series											
A3.29.1. Complex/decomplex								-	-	-	-
A3.29.2. Perform periodic maintenance								-	-	-	-

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7 level in-residence course is not taught in wartime.											
NOTE 2: Core Tasks are identified by an asterisk (*) in the appropriate column. Core tasks identified with an *R are optional for ANG and AFRC.											
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.											
NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7891.											
A4.1.	BASIC TERMS TR: TOs 31-1-141-2, 31-1-141-5										
A4.1.1.	Metric Notation							B	-	-	-
A4.1.2.	Direct Current (DC) terms							B	-	-	-
A4.1.3.	Alternating Current (AC) terms							B	-	-	-
A4.2.	BASIC CIRCUITS TR: TOs 31-1-141-2, 31-1-141-9										
A4.2.1.	Theory of operation							B	-	-	-
A4.2.2.	Troubleshoot circuits							2b	-	-	-
A4.3.	BASIC CIRCUIT CALCULATIONS TR: TO 31-1-141-5										
A4.3.1.	DC							B	-	-	-
A4.3.2.	AC							B	-	-	-
A4.4.	RESISTORS TR: TOs 31-1-141-2, 31-1-141-15										
A4.4.1.	Theory of operation							B	-	-	-
A4.4.2.	Isolate faulty resistors							2b	-	-	-
A4.4.3.	Color code							B	-	-	-
A4.5.	RELAYS/SOLENOIDS TR: TOs 31-1-141-2, 31-1-141-3										
A4.5.1.	Relay theory of operation							B	B	-	-
A4.5.2.	Isolate faulty relays							2b	-	-	-
A4.5.3.	Theory of operation							B	-	-	-
A4.5.4.	Isolate faulty solenoids							2b	-	-	-

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A4.6. INDUCTORS TR: TOs 31-1-141-2, 31-1-141-15												
A4.6.1. Theory of operation								B	-	-	-	
A4.6.2. Isolate faulty inductors								2b	-	-	-	
A4.6.3. Calculations								B	-	-	-	
A4.7. CAPACITORS TR: TOs 31-1-141-2, 31-1-141-5,31-1-141-15												
A4.7.1. Theory of operation								B	-	-	-	
A4.7.2. Isolate faulty capacitors								2b	-	-	-	
A4.7.3. Calculations								B	-	-	-	
A4.7.4. Color code								-	-	-	-	
A4.8. TRANSFORMERS TR: TOs 31-1-141-2, 31-1-141-5, 31-1-141-15												
A4.8.1. Theory of operation								B	-	-	-	
A4.8.2. Isolate faulty transformers								2b	-	-	-	
A4.8.3. Calculations								B	-	-	-	
A4.9. THREE PHASE TRANSFORMERS TR: TOs 31-1-141-2, 31-1-141-15												
A4.9.1. Theory of operation								B	-	-	-	
A4.9.2. Isolate faulty three phase transformers								-	-	-	-	
A4.10. DC MOTORS TR: TOs 31-1-141-2, 31-1-141-9												
A4.10.1. Theory of operation								B	-	-	-	
A4.10.2. Troubleshoot DC motors								-	-	-	-	
A4.11. AC MOTORS TR: TOs 31-1-141-2, 31-1-141-9												
A4.11.1. Theory of operation								B	-	-	-	

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A4.11.2. Troubleshoot AC motors								-	-	-	-
A4.12. DC GENERATORS TR: TOs 31-1-141-2, 31-1-141-9, 31-1-141-13											
A4.12.1. Theory of operation								B	-	-	-
A4.12.2. Troubleshoot DC generators								-	-	-	-
A4.13. AC GENERATORS TR: TOs 31-1-141-2, 31-1-141-9, 31-1-141-13											
A4.13.1. Theory of operation								B	-	-	-
A4.13.2. Troubleshoot AC generators								-	-	-	-
A4.14. ALTERNATORS TR: TOs 31-1-141-2, 31-1-141-9											
A4.14.1. Theory of operation								-	-	-	-
A4.14.2. Troubleshoot alternators								-	-	-	-
A4.15. SYNCHRO/SERVOS TR: TOs 31-1-141-2, 31-1-141-9											
A4.15.1. Theory of operation								B	B	-	-
A4.15.2. Troubleshoot synchro/servos								-	-	-	-
A4.16. CHOPPERS (SYNCHRONOUS VIBRATORS) TR: TOs 31-1-141-2											
A4.16.1. Theory of operation								-	-	-	-
A4.16.2. Isolate faulty choppers								-	-	-	-
A4.17. TRANSDUCERS TR: TOs 31-1-141-3, 31-1-141-13											
A4.17.1. Theory of operation								B	-	-	-
A4.17.2. Isolate faulty transducers								-	-	-	-
A4.18. METER MOVEMENTS TR: TOs 31-1-141-2, 31-1-141-7, 31-1-141-14C											
A4.18.1. Theory of operation								B	-	-	-
A4.18.2. Isolate fault meter movements								-	-	-	-

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A4.19. SOLID STATE DIODES TR: TOs 31-1-141-4, 31-1-141-15												
A4.19.1. Theory of operation								B	B	-	-	
A4.19.2. Isolate faulty solid state diodes								2b	-	-	-	
A4.19.3. Specifications								-	-	-	-	
A4.19.4. Color code								-	-	-	-	
A4.20. BIPOLAR JUNCTION TRANSISTORS TR: TO 31-1-141-4												
A4.20.1. Theory of operation								B	-	-	-	
A4.20.2. Isolate faulty transistors								2b	-	-	-	
A4.20.3. Specifications								-	-	-	-	
A4.21. INTEGRATED CIRCUITS TR: TO 31-1-141-4												
A4.21.1. Familiarization								B	B	-	-	
A4.21.2. Isolate faulty integrated circuits								2b	-	-	-	
A4.21.3. Specifications								-	-	-	-	
A4.22. SOLID STATE SPECIAL PURPOSE DEVICES TR: TO 31-1-141-4												
A4.22.1. Theory of operation												
A4.22.1.1. Silicon Controlled Rectifier (SCR)								B	-	-	-	
A4.22.1.2. Zener diode								B	-	-	-	
A4.22.1.3. Tunnel diode								B	-	-	-	
A4.22.1.4. Light Emitting Diode (LED)								B	-	-	-	
A4.22.1.5. Liquid Crystal Diode (LCD)								B	-	-	-	
A4.22.1.6. Unijunction Transistor (UJT)								B	-	-	-	
A4.22.1.7. Junction Field Effect Transistor (JFET)								B	-	-	-	
A4.22.1.8. Metal Oxide Semi-Conductor Field Effect Transistor (MOSFET)								B	-	-	-	

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A4.22.2. Isolate faulty special purpose devices								2b	-	-	-
A4.23. ELECTRON TUBES TR: TOs 31-1-141-1, 31-1-141-3, 31-1-141-9											
A4.23.1. Theory of operation								-	-	-	-
A4.23.2. Isolate faulty tubes								-	-	-	-
A4.23.3. Specifications								-	-	-	-
A4.24. CATHODE RAY TUBES (CRT) TR: TOs 31-1-141-1, 31-1-141-3											
A4.24.1. Theory of operation								B	-	-	-
A4.24.2. Isolate faulty CRTs								-	-	-	-
A4.25. SOLDER/DESOLDER TR: TOs 00-25-234, 1-1A-14, 31-1-141-15											
A4.25.1. Terminal connections	*							3c	-	-	-
A4.25.2. Printed Circuit (PC) Boards								2b	-	-	-
A4.25.4. Coaxial connectors	*							3c	-	-	-
A4.25.3. Multipin connectors	*							3c	-	-	-
A4.26. ASSEMBLE SOLDERLESS CONNECTORS TR: TOs 1-1A-14, 31-1-141-15											
A4.26.1. Crimp connections	*							3c	-	-	-
A4.26.2. Coaxial connections	*							3c	-	-	-
A4.26.3. Repair wire wrap connections								2b	-	-	-
A4.26.4. Multipin connections	*							3c	-	-	-
A4.27. USE TEST EQUIPMENT TR: TOs 31-1-141-1, 31-1-141-7, 31-1-141-8, 31-1-141-9, 31-1-141-10											
A4.27.1. Multimeter, analog								2b	-	-	-
A4.27.2. Oscilloscope	*							2b	-	-	-
A4.27.3. Signal generator								2b	-	-	-

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A4.27.4.	Frequency counter								2b	-	-	-
A4.27.5.	Field strength tester								-	-	-	-
A4.27.6.	Multimeter, digital	*							2b	-	-	-
A4.27.7.	Capacitor tester								-	-	-	-
A4.27.8.	Capacitor substitution box								-	-	-	-
A4.27.9.	Logic analyzer								-	-	-	-
A4.27.10.	Signature analyzer								-	-	-	-
A4.27.11.	Spectrum analyzer								(2b)	-	2b	-
A4.27.12.	power measurement devices								(2b)	-	2b	-
A4.27.13.	Clinometer								-	-	2b	-
A4.27.14.	Time Domain Reflectometer								-	-	2b	-
A4.27.15.	Modulation Meter								-	-	2b	-
A4.27.16.	Distortion Analyzer								-	-	2b	-
A4.27.17.	Bus Analyzer								-	-	-	-
A4.27.18.	Decade Resistor								-	-	-	-
A4.27.19.	Spotmeter								-	-	-	-
A4.27.20.	Watt Meter								-	-	2b	-
A4.27.21.	Milliohm Meter, Digital								-	-	2b	-
A4.28.	TRANSISTOR AMPLIFIER CIRCUITS TR: TOs 31-1-141-1, 31-1-141-4											
A4.28.1.	Theory of operation											
A4.28.1.1.	Amplifier circuits								B	B	-	-
A4.28.1.2.	Stabilization circuits								B	B	-	-
A4.28.1.3.	Coupling circuits								B	B	-	-
A4.28.2.	Troubleshoot circuits								2b	-	-	-
A4.29.	ELECTRON TUBE AMPLIFIERS TR: TO 31-1-141-3											
A4.29.1.	Theory of operation								-	-	-	-
A4.29.2.	Troubleshoot circuits								-	-	-	-

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A4.30. OPERATIONAL AMPLIFIERS (OP AMP) TR: TO 31-1-141-4												
A4.30.1. Theory of operation								B	B	-	-	
A4.30.2. Isolate faulty operational amplifiers								-	-	-	-	
A4.33. POWER SUPPLY CIRCUITS TR: TOs 31-1-141-3, 31-1-141-4, 31-1-141-9, 31-1-141-15												
A4.33.1. Theory of operation												
A4.33.1.1. Rectifiers								B	B	-	-	
A4.33.1.2. Filters								B	B	-	-	
A4.33.2. Troubleshoot circuits								2b	-	-	-	
A4.34. VOLTAGE REGULATORS TR: TOs 31-1-141-3, 31-1-141-4												
A4.34.1. Theory of operation								B	B	-	-	
A4.34.2. Troubleshoot circuits								2b	-	-	-	
A4.35. RESISTIVE-CAPACITIVE-INDUCTIVE (RCL) Circuits TR: TOs 31-1-141-2, 31-1-141-5												
A4.35.1. Basic operation								B	-	-	-	
A4.35.2. Resonant operation								B	-	-	-	
A4.35.3. Troubleshoot circuits								2b	-	-	-	
A4.35.4. Calculations								B	-	-	-	
A4.36. FREQUENCY SENSITIVE FILTERS TR: TO 31-1-141-2												
A4.36.1. Theory of operation								B	-	-	-	
A4.36.2. Troubleshoot circuits								2b	-	-	-	
A4.36.3. Calculations								B	-	-	-	

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A4.37. WAVE GENERATING CIRCUITS TR: TOs 31-1-141-3, 31-1-141-4, 31-1-141-10												
A4.37.1. Theory of operation												
A4.37.1.1. Oscillators								B	-	-	-	
A4.37.1.2. Multivibrators								B	-	-	-	
A4.37.1.3. Waveshaping circuits								B	-	-	-	
A4.37.2. Troubleshoot circuits								2b	-	-	-	
A4.38. LIMITER CIRCUITS TR: TO 31-1-141-4												
A4.38.1. Theory of operation												
A4.38.1.1. Diode								B	-	-	-	
A4.38.1.2. Zener diode								B	-	-	-	
A4.38.1.3. Transistor								B	-	-	-	
A4.38.2. Troubleshoot circuits								-	-	-	-	
A4.39. CLAMPER CIRCUITS TR: TO 31-1-141-4												
A4.39.1. Theory of operation								B	-	-	-	
A4.39.2. Troubleshoot circuits								-	-	-	-	
A4.40. DIGITAL NUMBERING SYSTEM TR: TO 31-1-141-5												
A4.40.1. Conversions												
A4.40.1.1. Binary								B	B	-	-	
A4.40.1.2. Octal								B	B	-	-	
A4.40.1.3. Hexadecimal								B	B	-	-	
A4.40.2. Math operations												
A4.40.2.1. Binary								B	B	-	-	
A4.40.2.2. Octal								B	B	-	-	
A4.40.2.3. Hexidecimal								B	B	-	-	
A4.40.3. Binary code systems								B	B	-	-	

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A4.41. DIGITAL LOGIC FUNCTIONS TR: TOs 31-1-141-4, 31-1-141-9												
A4.41.1. Theory of operation												
A4.41.1.1. Main logic gates								B	B	-	-	
A4.41.1.2. Flip flops								B	B	-	-	
A4.41.2. Troubleshoot circuits								B	-	-	-	
A4.41.3. Logic families												
A4.41.3.1. Transistor to Transistor (TTL) Logic								B	B	-	-	
A4.41.3.2. Complementary Metal Oxide Semi-Conductor (CMOS)								B	B	-	-	
A4.42. BOOLEAN EQUATIONS TR: TO 31-1-141-5												
A4.42.1. Diagram to equation								B	B	-	-	
A4.42.2. Equation to diagram								B	B	-	-	
A4.42.3. Simplify expressions								-	-	-	-	
A4.43. COMPUTERS TR: TOs 31-1-141-6C, 31-1-141-9												
A4.43.1. Operation principles								B	B	-	-	
A4.43.2. Load Programs								-	-	-	-	
A4.43.3. Write/debug programs								-	-	-	-	
A4.43.4. Isolate faulty major computer units								-	-	-	-	
A4.43.5. Troubleshoot computer subassemblies or circuits								-	-	-	-	
A4.43.6. Types of memories								B	B	-	-	
A4.43.7. Peripheral devices								B	-	-	-	
A4.43.8. Programming languages								-	-	-	-	

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A4.44. MICROPROCESSOR CONTROLLED SYSTEM TR: TOs 31-1-141-6C, 31-1-141-9												
A4.44.1. Theory of operation												
A4.44.1.1. Basic								B	-	-	-	
A4.44.1.2. Universal								B	-	-	-	
A4.44.1.3. 8085 specified								B	-	-	-	
A4.44.2. Isolate faulty microprocessors								2b	-	-	-	
A4.45. LOGIC CIRCUITS TR: TOs 31-1-141-5, 31-1-141-13												
A4.45.1. Theory of operation												
A4.45.1.1. Counters								B	B	-	-	
A4.45.1.2. Registers								B	B	-	-	
A4.45.1.3. Combinational logic circuits								B	B	-	-	
A4.45.2. Troubleshoot circuits								2b	-	-	-	
A4.46. DIGITAL TO ANALOG (D/A) AND ANALOG TO DIGITAL (A/D) CONVERTERS TR: TO 31-1-141-13												
A4.46.1. Theory of operation												
A4.46.1.1. Weighted resistor D/A								B	B	-	-	
A4.46.1.2. Approximation A/D								B	B	-	-	
A4.46.1.3. Ramp A/D								B	B	-	-	
A4.46.2. Isolate faulty converters								-	-	-	-	
A4.47. TRANSMISSION LINES TR: TOs 31-1-141-7, 31-1-141-8, 31-1-141-9, 31-1-141-13												
A4.47.1. Theory of operation								B	-	-	-	
A4.47.2. Perform measurements								-	-	-	-	
A4.47.3. Calculations								-	-	-	-	
A4.47.4. Isolate faulty transmission lines								-	-	-	-	

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC	
A4.48. WAVEGUIDES TR: TOs 31-1-141-9, 31-1-141-11												
A4.48.1. Theory of operation								B	B	-	-	
A4.48.2. Isolate faulty waveguides								-	-	-	-	
A4.49. MICROWAVE OSCILLATORS & AMPLIFIERS TR: TOs 31-1-141-3, 31-1-141-10, 31-1-141-11												
A4.49.1. Theory of operation								B	-	-	-	
A4.49.2. Tune/adjust								-	-	-	-	
A4.49.3. Isolate faulty microwave oscillators or amplifiers								-	-	-	-	
A4.50. RESONANT CAVITIES TR: TOs 31-1-141-3, 31-1-141-9, 31-1-141-11												
A4.50.1. Theory of operation								B	-	-	-	
A4.50.2. Isolate faulty resonant cavities								-	-	-	-	
A4.50.3. Tune/adjust								-	-	-	-	
A4.51. TRANSMITTERS TR: TOs 31-1-141-4, 31-1-141-9, 31-1-141-13												
A4.51.1. Theory of operation												
A4.51.1.1. Amplitude modulation								B	B	-	-	
A4.51.1.2. Frequency modulation								B	B	-	-	
A4.51.1.3. Single side band								B	B	-	-	
A4.51.1.4. Pulse modulation								B	B	-	-	
A4.51.2. Troubleshoot circuits								2b	-	-	-	
A4.52. RECEIVERS TR: TOs 31-1-141-4, 31-1-141-9, 31-1-141-13												
A4.52.1. Theory of operation												
A4.52.1.1. Amplitude modulation								B	B	-	-	
A4.52.1.2. Frequency modulation								B	B	-	-	
A4.52.1.3. Single side band								B	B	-	-	

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A4.52.1.4.	Pulse modulation							B	B	-	-
A4.52.2.	Troubleshoot circuits							2b	-	-	-
A4.53.	TRANSMISSION POWER TR: TOs 31-1-141-7, 31-1-141-831-1-141-11										
A4.53.1.	Perform measurements							-	-	-	-
A4.53.2.	Calculations							-	-	-	-
A4.54.	ANTENNAS TR: TO 31-1-141-12										
A4.54.1.	Theory of operation							B	B	-	-
A4.54.2.	Perform alignment							-	-	-	-
A4.54.3.	Isolate faulty antennas							-	-	-	-
A4.55.	MICROPHONES TR: TO 31-1-141-3										
A4.55.1.	Theory of operation							-	-	-	-
A4.55.2.	Troubleshoot circuits							-	-	-	-
A4.56.	SPEAKERS TR: TO 31-1-141-3										
A4.56.1.	Theory of operation							-	-	-	-
A4.56.2.	Troubleshoot circuits							-	-	-	-
A4.57.	PHOTOSENSITIVE DEVICES TR: TOs 31-1-141-3, 31-1-141-4										
A4.57.1.	Theory of operation							B	-	-	-
A4.57.2.	Isolate faulty photosensitive devices							-	-	-	-
A4.58.	DISPLAY TUBES TR: TO 31-1-141-3										
A4.58.1.	Theory of operation							-	-	-	-
A4.58.2.	Isolate fault display tubes							-	-	-	-
A4.59.	SUPPORT SUBJECTS TR: TO 31-1-141-1; 00-25-234; AFR 700-13; AFR 80-23										
A4.59.1.	Safety applicable to electronics							B	-	-	-

ELECTRONIC PRINCIPLES TRAINING REQUIREMENTS

STS 2A0X1A

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 Lvl	7 Lvl	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) CRS	(2) CDC	(1) CRS	(2) CDC
A4.59.2. First aid for electrical shock								B	-	-	-
A4.59.3. Electrostatic discharge (ESD) control								B	B	-	-
A4.59.4. Electromagnetic Effects of Electronic Equipment											
A4.59.4.1. Pulse (EMP)								-	-	-	-
A4.59.4.2. Interference (EMI)								-	-	-	-
A4.59.4.3. Compatibility (EMC)								-	-	-	-

Section B - Course Objective List

4. Measurement: Each proficiency coded CFETP 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 composed of a condition, behavior, and standard which 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. Each objective uses letter code(s) to identify how it is measured. All objectives use PC code(s) which indicates 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.

5. Standard: The standard of written examinations is 70% to 73%, depending on the number of questions on the test. Standards of performance 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.

6. Proficiency Level: Review column 4A of the CFETP to determine the proficiency level of a particular task or knowledge item. Review the course objective list to determine which STS item the objective supports. 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. For tasks that are taught to the '3c' proficiency level, students can do all parts of the task and only require a spot check on completed work (competent). The student can also identify why and when a task must be done and why each step is needed.

7. Course Objectives: A detailed listing of initial skills or craftsman course objectives may be obtained by submitting a written request to the AETC Training Manager, 365 TRS/TTR, 609 9th Ave., Stop 242, Sheppard AFB TX, 76311-2335.

Section C - Support Material

8. The following list of support materials is not all inclusive; however, it covers the most frequently referenced areas.

333 TRS/TTCQS
 601 D Street
 Keesler AFB, MS 39534-2229
 DSN 597-5893

362 TRS/TRR
 613 10th Ave.
 Sheppard AFB, TX 76311-2352
 DSN 736-5206

338 TRS/UEBA
 809 Hercules, Suite 139
 Keesler AFB, MS 39534-2229
 DSN 597-8759

372 TRS/TXC
 912 I Avenue, Suite 3
 Sheppard AFB, TX 76311
 DSN 736-2815

342 TRS/TTSCD
 1220 Truember Street, Suite 1
 Lackland AFB, TX 78236
 DSN 473-2814

COURSE NUMBER	COURSE TITLE	OPR	USER
*AFQTP 2EXXX-201L	Workcenter Managers Handbook	333 TRS	AF
*AFQTP 2EXXX-201LB	C-E Managers Handbook	333 TRS	AF
*AFQTP 2EXXX-201G	Maintenance Support	333 TRS	AF
*AFQTP 2EXXX-201P	TMDE Management	333 TRS	AF
*AFQTP 2EXXX-201J	Maintenance Training Program	333 TRS	AF
E3AZR2E000 001	High Reliability Soldering & Connections	338 TTS	AF
J4ASF30000 110	Miniature Electronic Repair	372 TTS	AF
J4ASF30000 113	Micro Miniature Electronic Repair	372 TTS	AF
L6AZS2E351 005	STP/TSEC/KY57/58 Secure Speech	342 TTS	AF
L6AZS2E351 003	STP/TSEC/K1 Series	342 TTS	AF

*Courses can be downloaded from 333 TRS home page at: <http://qflight.kee.aetc.af.mil>

Section D - Training Course Index

9. Purpose. This section of the CFETP identifies training courses available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs.

10. Air Force In-Residence Courses.

COURSE NO.	COURSE TITLE	LOCATION	USER
L3AQR2A031A 125	Electronic Principles	Lackland AFB	AF
J3ABR2A031A 001	F-15 Avionic Test Station and Aircraft Comp Apprentice	Sheppard AFB	AF
J3ACR2A071A 000	F-15 Avionic Test Station and Aircraft Component Craftsman	Sheppard AFB	AF

11. Extension Course Institute (ECI) Courses

COURSE NO.	COURSE TITLE	OPR	USER
CDC 2A051	Avionic Test Station and Aircraft Component Journeyman	365 TRS	AF
CDC 2A051A	F-15 Avionic Test Station and Aircraft Component Journeyman	365 TRS	AF
CDC 2AX7X	Maintenance Supervision And Management	361 TRS	AF

12. Exportable Courses:

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

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

362 TRS
613 10th Ave.
Sheppard AFB, TX 76311-2352
DSN 736-5206

The Hill AFB course catalog can be ordered from DSN 777-0160.

COURSE NO.	COURSE TITLE	OPR	USER
00TVT0000	FOD Prevention (VHS tape)	367 TRS	AF
00TVT0001	Safety and Radio Frequency (RF) Radiation (VHS tape)	367 TRS	AF
00TIV0001	Troubleshooting Techniques (ICW)	367 TRS	AF
00TCB0002	Multimeter Familiarization (ICW)	367 TRS	AF
00CIV0008	Use and Care of Type III Torque Wrenches (5108)	367 TRS	AF

COURSE NO.	COURSE TITLE	OPR	USER
00QIV0009	Torque Wrench Familiarization	367 TRS	AF
00TVT0017	General Aircraft Corrosion Control (VHS tape)	367 TRS	AF
J6ANU00066-038	Air Force Technical Order (T.O.) System (Gen)	362 TRS	AF
J6ANU00066-039	Air Force Technical Order (T.O.) System (Gen) (Adv)	362 TRS	AF
J6AZU00066-058	Air Force Maintenance Data Collection System	362 TRS	AF
J6AZU00066-059	Air Force Maintenance Data Collection System	362 TRS	AF
J6AZU00066-061	Air Force Maintenance Data Collection System Operators Course (Intro)	362 TRS	AF
J6AZU00066 062	Air Force Maintenance Data Collection System Mid Level Maintenance Mgrs	362 TRS	AF
J6AZU00066 063	Air Force Maintenance Data Collection System Senior Level Maintenance Mgrs	362 TRS	AF

13. Courses Under Development/Revision

COURSE NO.	COURSE TITLE	OPR	USER
J3ATR2A011 001	Avionic Test Station and Aircraft Component Fundamentals	365 TRS	AF
J3ABR2A031A 003	F-15 Avionic Test Station and Aircraft Component Apprentice	365 TRS	AF
J4AST2A051A 000	F-15 Electronic System Test Set (ESTS) Journeyman (Mobile Training Team)	365 TRS	AF
J3AZR2A051A 005	F-15 Avionic Test Station Calibration Journeyman	365 TRS	AF

Section E – MAJCOM Unique Requirements

15. Currently only Air Combat Command has a MAJCOM mandatory course list (MMCL). MAJCOMs change mandatory course requirements occasionally. Up-to-date ACC requirements can be obtained at <http://www.acclog.af.mil/lgq/lgqt/98mmcl.doc>. Refer to the HQ ACC MMCL for additional information. As of the most recent ACC MMCL, dated 28 Aug 98, there are no mandatory course requirements for this AFSC.

16. Additional courses available from ACC.

Contact the course OPRs at:

HQ ACC LSG / OL-CA
6058 Aspen
Hill AFB, UT 84056-5805
DSN 777-4278

COURSE NO.	COURSE TITLE	OPR	USER
Y140009	ACC Production Superintendent	HQ ACC/ LSG	ACC
Y140015	ACC Maintenance Instructor	HQ ACC/ LSG	ACC
Y140020	ACC Maintenance Training Management	HQ ACC/ LSG	ACC