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Parts I and II
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AFSC 2A0X1C

AVIONIC SENSOR SYSTEMS

CAREER FIELD EDUCATION

AND TRAINING PLAN

CAREER FIELD EDUCATION AND TRAINING PLAN
AVIONIC SENSOR SYSTEMS
AFSC 2A0X1C

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AVIONIC SENSOR SYSTEMS
AFSC 2A0X1C
CAREER FIELD EDUCATION AND TRAINING PLAN

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; supervisors use both parts of the CFETP 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, experience, 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 QTPs are identified in AFIND8, *Numerical Index of Specialized Educational Training Publications.* Section D identifies a training course index that 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. Supervisors use AFJQSs 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 (AFCFM) identify as a minimum qualification requirement within an Air Force specialty regardless of duty position. Core tasks 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 specialty. Supervisors use the COL to assist in conducting graduate evaluations in accordance with AFI 36-2201, *Developing, Managing and Conducting Training.*

Critical Tasks. Tasks that have been identified by the workcenter supervisor as having a detrimental effect on mission accomplishment if not performed correctly. Critical tasks may or may not be the same as core tasks but are mandatory if identified as "critical" to the individual's position by the supervisor or workcenter.

Distance Learning. Includes video teleseminar (VTS), video teletraining (VTT), and computer-based training (CBT). Formal courses that a training wing or a contractor develops for export to a field location (in place of resident training) for trainees to complete without the on-site support of the formal school instructor. For instance, courses are offered by Air Force Institute of Technology, Air University, and Training Detachment.

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.

En Route (PCS-Associated) Training. The training of students undergoing a permanent change of station (PCS) while in temporary duty (TDY) status.

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).

Go/No Go. The stage at which an individual has gained enough skill, knowledge, and experience to perform the tasks without supervision. Meeting the task standard.

Initial Skills Training. A formal resident course, which results in award of a 3-skill level Air Force specialty code (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.

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

Master Training Plan. A comprehensive workcenter training plan. It can include the MTLs, QTPs, AFJQS, CFETP, task breakdowns, commercial publications and any other document that supports training.

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

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's 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 AETC 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.

Supplemental Training. Training for a portion of an AFS without a change in AFSC. Formal training on new equipment, methods, and technology that are not suited for on-the-job training.

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

Training Feedback Hotline (TFH). The TFH is a 24-hour telephone line for supervisors to call when they have any questions about the training received at any technical training school. Questions are replied to within 5 working days. This system allows HQ AETC to respond quickly to the concerns of the field supervisors. The specific phone numbers to call are printed on the cover page of the applicable training standard.

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 functional managers (MFM), subject matter experts (SME), and AETC training personnel that determines career ladder training requirements.

SECTION A - GENERAL INFORMATION

1. Purpose. This CFETP provides the information necessary for AFCFM, 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 2A0X1C should receive to develop and progress throughout their careers. 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's 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. Serve as a management tool to plan, manage, conduct, and evaluate a career field training program. Also, it's used to help supervisors identify training at the appropriate point in an individual's career.

1.2. Identify tasks and knowledge training requirements for each skill level in the specialty and recommend education/training throughout each phase of an individual's career.

1.3. List training courses available in the specialty and identifies sources of training and the training delivery method.

1.4. Identify major resource constraints that 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, 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 2A0X1C 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 FIELD 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 avionics test equipment, support equipment (SE), and aircraft avionics systems components. Related DoD Occupational Subgroup: 198.

4.2. Duties and Responsibilities:

Analyzes performance and isolates malfunctions of avionics 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 sensors systems. Traces logic, schematic, test flow, and wiring diagrams. Uses self-test and software functions, computer and manually operated avionics test equipment, SE, and test measurement and diagnostic equipment to determine the scope of repair and adjustment required.

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

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, calibration, and inspection of integrated avionics test stations and aircraft components.

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 and Career Progression. Adequate training and timely progression from the apprentice to the superintendent skill level play an important role in the Air Force's ability to accomplish its mission. It's essential that everyone involved in training do his/her 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. Enlisted personnel must complete all mandatory training requirements as outlined in AFI 36-2201, *Developing, Managing, and Conducting Training*; AFMAN 36-2108, *Enlisted Classification*; and this CFETP for award of the 3-,5-,7-, and 9-skill levels. The following outlines the minimum requirements for award of these skill levels:

5.1. Apprentice (3-level): Complete a resident initial skills training course for award of the 3-skill level. Retraining into a similar AFSC or shred may be accomplished via OJT alone only when specified in the retraining instructions as approved by the respective AFCFM. Personnel retraining via OJT may be awarded 3-skill level when the following are met: complete a minimum of 3-month apprenticeship period, complete knowledge training on all tasks taught in the initial skills course, complete duty position requirements identified by the supervisor and all other mandatory requirements.
5.2. Journeyman (5-level): Complete 3-month apprenticeship period; complete mandatory CDC, if available, all core tasks identified in the CFETP and other duty position tasks identified by the supervisor. They must also complete an additional 12 months in upgrade training (UGT), and acquire the rank of senior airman for award of the 5-skill level. Individuals in retraining status (TSC "F") must complete a minimum of 6 months in upgrade training.
5.3. Craftsman (7-level): Be a staff sergeant, complete the mandatory CDCs, if available, all core tasks identified in the in the CFETP and other duty position tasks identified by the supervisor. They must also attend the 7-skill level craftsman course, if available, and for award of the 7-skill level individuals must complete a minimum of 12 months in UGT. Individuals in retraining status (TSC "G") are subject to the same requirements.
5.4. Superintendent (9-level): Be a senior master sergeant.

6. **Training Decisions:** The CFETP uses a building-block approach (simple to complex) to encompass the entire spectrum of training requirements for the Avionic Sensor Systems career field specialty. The spectrum includes a strategy for when, where, and how to meet these training requirements. The strategy must ensure we develop affordable training, eliminate duplication, and prevent a fragmented approach to training. The following training decisions were made by MFMs and SMEs at the career field specialty U&TW held at Sheppard AFB, 22-26 Jan 01.
6.1. Initial Skills: Three-Level Course Review/Upgrade Training: The course length will total about 74 days, increased by 7 days. The initial skills training shall consist of two courses, J3ATR2A011 002 and J3ABR2A031C 000. The first course consists of 12 days of generic avionics training, and the second course consists of 62 days of avionic sensors-specific training. Training emphasis shifted from focusing on LANTIRN and AFSOC systems, i.e., FLIR systems, to focusing on Precision Attack systems (LANTIRN and Pave Penny). Training also shifted to align with the AFSC change (from an O-/I-level specialty to strictly an I-level specialty), deleting all AFSOC-related items and all flightline-related items for other systems. CTVS and color video monitor were retained with the possibility of deletion, based on possible AF deletion of the system within the next 2 years. Because the AF no longer maintains it, the U-2's IRIS, F-489, and T-35 Tracker Camera were deleted. Also deleted was Programming Languages. Added were RAMPOD; inputting MDC data; using hand tools; description of LANTIRN equipment and LRUs/SRUs; Pave Penny system, LRUs, and equipment description, theory, and checkouts; IRADS, Driftsight, and Mark IV hand control theory. The Pave Penny equipment items requiring training that were added were as follows: Detector Simulator, Aircraft Simulator, Torque Motor Test Set, Detector Test Set, and Collimator. Pave Penny system items added were the Laser Illuminated Target Detector, Adapter Control Detector (ACD), Target Identification Set Laser Control, and associated support and test equipment.
6.2. Five-Level Upgrade Training: Number of volumes will be five. In Hazards of 2A0X1C, "Hazardous Materials" was deleted as a duplicate entry. In Maintenance and Inspection, "Input

MDC Data" was added. "Evaluate Video Tape and Film" was deleted from Troubleshooting Techniques. "Description" was added to LANTIRN Support Equipment; LIATE, RFAUTS, EOTS, ECUTS, PSTS. Added Pave Penny Support Equipment "Description and Theory of Operation" for Detector Simulator, Aircraft Simulator, Torque Motor Test Set, Detector Test Set, and Collimator. Deleted from Sensor Systems Maintenance Principles were Video Tape Recording System and Night Vision Devices. Added to Off-Equipment LANTIRN Nav Set Maintenance was "Description" for Terrain Following Radar, RIU, Antenna Gimbal, Transmitter, Receiver Exciter, Radar Power Supply, Radar Pressurization Unit, Nav Set Computer, Infrared Receiver, Nav Set Power Supply, and Environmental Control Unit. Added to Off-Equipment Targeting Set Maintenance was "Description" for NESA, Roll Section, Targeting Set Computer, Central Electronics Unit, Target Set Power Supply, and Environmental Control Unit. AFSOC items deleted were Description and Theory for Q-15, Q-17, Q-18, LLLTV, and AJQ-24 Stabilized Track Platform. Deleted AVTR Description and Theory. Changed CTVS System and Pave Penny System Description proficiency code from "B" to "A." Added LASER Illuminated Target Detector Description. Changed IRADS System Description proficiency code from "B" to "A." Deleted IRIS Description and Theory. Changed Optical Bar Camera Systems proficiency code from "B" to "A." Deleted T-35 Tracker Camera Description and Theory. Deleted F-489 Description and Theory. Changed Mark II Drift Sight and Mark IV Hand Control Description proficiency code from "B" to "A." Deleted ALLTV Description and Theory. In "Use Test Equipment," deleted Signal Generator, Spectrum Analyzer and Reflectometer. Added IRADS Test Set (CATE) Description and Theory.

6.3. Seven-Level Upgrade Training. Course length and training emphasis remained unchanged, i.e., 10 days and management and troubleshooting centered. Deleted were Maintain Equipment Accounts, Assign Personnel to Positions, Training Programs Monitor tasks, and Perform Cannibalization Procedures. One item, Analytical Troubleshooting (2b), was added. Proficiency code changes were as follows: Team Leader/Production Superintendent Work Methods/Controls changed from "C" to "c," Prepare Job Qualifications Standards' changed from "2c" to "2b," SORTS Reporting changed from "2b" to "B," Read Schematics and Wiring/Block Diagrams changed from "2c" to "2b." Block Diagrams were added to the Read Schematics and Wiring Diagrams line item. Three items (Maintenance Incident Prevention/Investigation, Maintenance Accountability, and Logistics Maintenance Management) are still mandated, by USAF/ILMM, to be taught in the course though not coded in the STS. 7-level CDCs: Because the AFS utilizes CDC 2AX7X, no items were deleted. Also, no items were identified for possible addition to CDC 2AX7X.

6.4. 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 Avionic Sensor Systems career field specialty receive 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 (CCAF) Academic. Enrollment in CCAF occurs upon completion of basic military training. CCAF provides the opportunity to obtain an Associate in Applied Sciences Degree. In addition, CCAF offers the following:

7.1. Occupational Instructor Certification. Upon completion of instructor qualification

training, consisting of the Basic Instructor Course (BIC) 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 to receive an Associates in Applied Technology Degree in Avionic Systems Technology (Program Code 4VHS). Prior to completing an associates degree, the 5-level must be awarded and the following requirements must be met:

	Semester Hours
Technical Core	12-24
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 Core (24 Semester Hours): Completion of course J3ABR2A031C 000 satisfies all 24 semester hours of the technical education requirement.

Technical Core

Subjects/Courses	**Semester Hours**
Avionic Systems Theory/Maintenance	24
CCAF Internship	18

Technical Electives

Subjects/Courses	**Semester Hours**
Advanced Electronics	12
Algebra-Based Physics	4
Aviation/Flight Safety	3
Basic Electronics Theory/Application	12
CAD/CAM or Technical Drawing/Drafting	3
Communications Systems Theory/Maintenance	12
Computer Science	6
Digital Techniques	6
Electronic Systems Theory/Maintenance	12
Enlisted Professional Military Education	6
FCC General Radiotelephone Operator's License	9
Industrial Safety	3
Microprocessor Electronic Theory	6
Quality Assurance	3

Radar Systems Theory/Maintenance 3
Soldering Techniques 3
Solid-State Theory/Application 6
Technical Writing 3
Trigonometry 3

7.3.2. Leadership, Management, and Military Studies (6 Semester Hours): Professional military education and/or civilian management courses accepted in transfer and/or by testing credit.

7.3.3. Physical Education (4 Semester Hours).

7.3.4. General Education (15 Semester Hours): Courses must meet the definition of General Education subjects/courses as provided in the CCAF General Catalog.

Subjects/Courses	**Semester Hours**
Oral Communication (Speech)	3
Written Communication (English Composition)	3
Mathematics	3
Intermediate algebra or college-level mathematics course that satisfies the delivering institution's mathematics requirement for graduation. If an acceptable mathematics course is applied as a Technical or Program Elective, a natural science course may be substituted for mathematics.	
Social Science	3
Anthropology, Archaeology, Economics, Geography, Government, History, Political Science, Psychology, Sociology	
Humanities	3
Fine Arts (Criticism, Appreciation, Historical Significance), Foreign Language, Literature, Philosophy, Religion	

7.3.5. Program Elective (15 semester hours) Courses applying to technical education, LMMS or general education requirements; natural science courses meeting general education requirement application criteria; foreign language credit earned at Defense Language Institute or through Defense Language Proficiency Test; maximum 6 SHs of CCAF degree-applicable technical course credit otherwise not applicable to program of enrollment. See the CCAF General Catalog (http://www.au.af.mil/au/ccaf/catalog/2002cat/ter_4vhs.htm) for details regarding the Associates of Applied Science for this specialty.

7.4. AETC Instructor Requirements. 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 associate's degree. It's necessary for instructors to have at least an associate's degree so that the Technical School can 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 AFSC 2A0X1C.

Table A8.1 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) - Acquire the rank of SrA. - Minimum 15 months on-the-job training (3-month apprenticeship; 12-month upgrade training). NOTE: individuals in retraining status (TSC "F") must complete (minimum) 6 months of upgrade training. - Complete all 5-level core tasks on one MDS and all duty position-related tasks identified by supervisor. - 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 and have 1 year of retainability. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).				
Trainer - Recommended by supervisor. - Qualified and certified to perform the task to be trained. - Attended a formal trainer course. - Designated, in writing, by commander.	**Certifier** - At least a SSgt with a 5-skill level or civilian equivalent. - Someone other than the trainer. - Qualified and certified to perform the task being certified. - Attended a formal certifier course. - Designated, in writing, by commander.			
Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt. - Complete all 5- and 7-level core tasks on one MDS and all duty position-related tasks identified by supervisor. - Minimum 12 months OJT. NOTE: Individuals in retraining status (TSC "G") are subject to the same requirements. - Complete appropriate CDC if/when available. - Complete advanced technical school.	SSgt	5.3 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	14.2 years 17.4 years	5 years 8 years	22 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	19.3 years	11 years	26 Years
Upgrade To Superintendent (9-Skill Level) - Minimum rank of SMSgt.	CMSgt	22.6 years	14 years	30 Years

8.2. Base/Unit Education and Training Manager Checklist: Table A8.2. provides base and unit education and training managers a tool to track progress of individuals in the 2A0X1C Air Force specialty.

Table A8.2. Base/Unit Education and Training Manager Checklist		
Requirements for Upgrade to:	**Y**	**N**
Journeyman - Has the apprentice achieved the rank of SrA? - Has the apprentice completed a 3-month apprentice period? - Has the apprentice completed mandatory CDCs if available? - Has the apprentice completed all 5-level core tasks on at least one MDS aircraft identified in the CFETP? - Has the apprentice completed all other duty position tasks identified by the supervisor? - Has the apprentice completed 12 months upgrade training (6 months for retrainees) for award of the 5-skill level? - Has the apprentice met mandatory requirements listed in specialty description, AFMAN 36-2108 (Enlisted Classification), and CFETP? - Has the apprentice been recommended by his/her supervisor?		
Craftsman - Has the journeyman achieved the rank of SSgt? - Has the journeyman completed mandatory CDCs if available? - Has the journeyman completed all 5- and 7-level core tasks on at least one MDS aircraft identified in the CFETP? - Has the journeyman completed all other duty position tasks identified by the supervisor? - Has the journeyman completed 12 months upgrade training for award of the 7-skill level? - Has the journeyman attended 7-skill level craftsman course if available?		
Journeyman/Craftsman Qualification Training - All personnel not currently in upgrade training, will be assigned training status code (TSC) D until all mandatory MDS core tasks, and work center determined tasks to support test station calibrations are complete. Previously qualified 7 levels assigned training status code D will not be required to attend the in-residence seven level course.		

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

Trainee is prepared to be upgraded and has completed all mandatory training requirements. Supervisor recommends upgrade.

_____ _____

Training Manager Supervisor

SECTION C - SKILL LEVEL TRAINING REQUIREMENTS

9. Purpose. Skill level training requirements in this career field specialty are defined in terms of tasks and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in 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 in Part II, Sections A and B of this CFETP.

10. Specialty Qualification Requirements. The various skill levels in this career field specialty are defined in terms of tasks and knowledge proficiency requirements for each skill level. They are stated in broad general terms and establish the standards of performance. The specific task and knowledge training requirements are identified in the STS in Part II, Section A of the CFETP. Unit work centers must develop a structured training program to ensure the following requirements are met:

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 on-equipment and off-equipment items identified in Part II.

10.1.1.1. Knowledge: Knowledge is mandatory of: electrical theory and electronic fundamentals, including solid-state, binary, digital, octal, and hexadecimal numbering systems; metrology principles; Boolean algebra; computer logic, and programming principles and language; printed circuitry; microwave, and radar principles; micro-miniature solid state devices; operating principles of avionics 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.

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 2A031C, completion of the applicable 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:

10.1.1.5.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards.*

10.1.1.5.1.2. See AFMAN 36-2108, attachment 39 for additional entry requirements.

10.1.1.5.1.3. For award and retention of AFSCs 2A031C/51C/71C, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Program Management.*

10.1.2. Training Sources. The initial skills course, J3ABR2A031C 000, will provide the required knowledge and qualifications. Initial skills training encompasses basic closed-circuit television, infrared, laser, radar, environmental control, night vision and optical system theory. It also includes system operation, system component removal and installation, introduction to maintenance concepts and troubleshooting, maintenance documentation with CAMS, support equipment familiarization and use, and general shop maintenance practices.

10.1.3. Implementation. Upon graduation from Basic Military Training, airmen will attend course E3AQR2A031C 451, Electronic Principles, at Keesler AFB, MS, then proceed to Sheppard AFB, TX, to complete the J3ABR2A031C 000, Avionic Sensor Systems Apprentice Training. Completion of both courses 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:

10.2.1.1. Knowledge: An individual must possess the knowledge and skills necessary to maintain avionic sensor systems, analyze and correct system malfunctions, repair and replace system wiring and other electrical components, perform operational checks and built-in tests (BIT), use and maintain test and support equipment. They must also know how to handle, store, and dispose of hazardous waste and materials according to environmental standards.
10.2.1.2. Education: There is no formal education for upgrade to 2A051C.
10.2.1.3. Training: Requirements for the Journeyman level require completion of the 5-level CDC and completion of all applicable 5-level core tasks on at least one MDS aircraft specified in the STS.
10.2.1.4. Experience: Qualification in and possession of AFSC 2A031C. 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:
10.2.1.5.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards.*
10.2.1.5.1.2. Visual qualification according to Air Force Occupational Safety and Health Standard 48-139, *Laser Radiation Protection Program*, for performing duty in laser hazard areas.
10.2.1.5.1.3. For award and retention of AFSCs 2A031C/51C/71C, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program.*
10.2.2. Training Sources and Resources. The 5-level CDC provides the career knowledge training required. Qualification training and OJT will provide training and qualification on the applicable core tasks identified in the STS. The CDC is written to build from the trainee's current knowledge base, and provides 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, exportable courses, and CDCs. Upgrade to the 5-level requires completion of the 2A051C, Avionic Sensor Maintenance Journeyman CDC, completion of all 5-level core tasks on one MDS aircraft, and MAJCOM/Unit requirements.
10.3. Craftsman-Level Training:
10.3.1. Specialty Qualification. In addition to the 5-level qualifications:
10.3.1.1. Knowledge. An individual must possess advanced skills and knowledge of theory, concepts, principles and application of avionic sensor systems and equipment. The 7-level must be able to supervise, train, and utilize resources to ensure effective maintenance. The 7-levels must be qualified on advanced repair and inspection techniques; component and system fault isolation; repair requirements, shop procedures and evaluations; supervision, and historical documentation analysis.
10.3.1.2. Education. There are no additional education requirements beyond those defined for the apprentice level.
10.3.1.3. Training. Completion of CDC 2AX7X and the resident 7-level course, J3ACR2A071C 000, at Sheppard AFB TX is mandatory for upgrade to AFSC 2A071C.
10.3.1.4. Experience. Qualification in and possession of AFSC 2A051C. 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:
10.3.1.5.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards.*
10.3.1.5.1.2. Visual qualification according to Air Force Occupational Safety and Health Standard 48-139, *Laser Radiation Protection Program*, for performing duty in laser hazard areas.
10.3.1.5.1.3. For award and retention of AFSCs 2A031C/51C/71C, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program.*
10.3.2. Training Sources and Resources. Seven-level upgrade training will be conducted by certified trainers using applicable core tasks, unit/MAJCOM-specific courses, applicable 7-level CDC, and the formal 7-level course, J3ACR2A071C 000. The resident courses and/or 7-level CDC s are written to provide advanced troubleshooting skills.
10.3.3. Implementation. Upgrade to the 7-level will require completion of all applicable 5 and 7-level core tasks on one MDS aircraft, applicable 7-level CDCs, craftsman's maintenance course J3ACR2A071C 000, 12 months OJT after selection to SSgt, and all mandatory exportable courses.
10.4. Superintendent-Level Training.
10.4.1. Specialty Qualification. In addition to 7-level qualifications:
10.4.1.1. Knowledge. An individual must possess advanced skills and knowledge of concepts and principles in the management of aircraft maintenance. The 9-level needs to be an effective leader; must be able to forecast, budget and manage funds and other resources; and must be knowledgeable of all environmental standards and ensure adherence to the proper handling and disposal of hazardous materials.
10.4.1.2. Education. There are no additional requirements beyond those defined for the apprentice level.
10.4.1.3. Training. For award of AFSC 2A190, promotion to SMSgt is mandatory
10.4.1.4. Experience. Qualification in and possession of AFSC 2A071C. Also experience managing or directing repair activities for electrical and environmental systems, and associated maintenance functions.
10.4.1.5. Other. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards.*
10.4.2. Training Sources and 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 and promoted to SMSgt. Individuals must attend the Senior NCO Academy after they are selected for promotion to SMSgt. ANG and AFRC personnel can use correspondence course.

SECTION D - RESOURCE CONSTRAINTS

11. Purpose: This section of the CFETP identifies known resource constraints, which preclude optimum/desired training from being developed or conducted. Included is a narrative explanation of each resource constraint, an impact statement describing the effect on training, the resources needed, and actions required to satisfy the training requirements.

12. Apprentice-Level Training. There are no constraints.

13. Five-Level Training. There are no constraints.

14. Seven-Level Training. There are no constraints.

15. Supplemental Training. There are no constraints.

SECTION E – TRANSITIONAL TRAINING PLAN

16. The U&TW working group developed a restructure transitional training plan (TTP), which implemented the following:
16.1. All individuals enrolled in upgrade training to the 5/7-level will complete their current courses and then complete the training requirements outlined in this TTP.
16.2. CFETP 2A1X1 line items and training requirements were incorporated into CFETP 2A5X3A to support all O-level requirements previously supported by 2A1X1 personnel. 2A1X1 personnel performing O-level maintenance will be indirectly converted to 2A5X3As and will complete CDC 2A553A (this requirement includes all existing 5/7-levels). The 2A1X1 O-level personnel converting to 2A5X3A will be placed in Training Status Code "S" for a minimum of 12 months and a maximum of 24 months. To be removed from TSC "S", they must complete CDC 2A5X3A. All remaining 2A1X1 personnel will directly convert to the new AFSC, 2A0X1C, for I-level maintenance (as of Oct 02). MAJCOMs will realign O/I-level manning positions as required.
16.3. Individuals will be exempt from SKT for 1 year; a waiver for an addition year will be submitted for a total of two years (until 2005 cycle).

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 on and after 23 Jan 03.

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. Column 2 (Core Tasks) identifies, by asterisk (*), specialty-wide training requirements. Core tasks identified with an "*R" are optional for ANG and AFRC. As a minimum, certification on all shop/flightline core tasks applicable to at least one mission design series (MDS) aircraft assigned must be completed for skill level upgrade. Core task exemptions: (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) units are not exempt from minimum core task training if aircraft/equipment are assigned to another unit on base, and (3) core tasks on more than one assigned MDS are not required unless deemed mandatory by the MAJCOM FM, unit, and/or supervisor.
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. Attachment 2 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) reflecting this STS may be used and are highly encouraged. Use of attachments one and two is mandatory in individual training records. 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 AFJQSs 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.

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 AFI 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, pertaining to the reason for decertification, are entered on the AF Form 623A, On-The-Job Training Record Continuation Sheet. 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. The STS is a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKT) 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. 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, Sheppard AFB, TX, 76311-2335, DSN 736-7908. Reference specific STS paragraphs. For a quick response to problems, call our Training Feedback Hotline, DSN 736-2574.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

MICHAEL E. ZETTLER, Lieutenant General, USAF
DCS/Installations and Logistics

Attachments
1. Proficiency Code Key
2. Training Requirements
3. Training Requirements, Electronic Fundamentals

PROFICIENCY CODE KEY

STS 2A0X1C

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

Explanations

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

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

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

/ 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.).

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
ATTACHMENT 2 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: Users are responsible for annotating training references to identify current references pending STS revision. NOTE 3: Items marked in columns 2a or 2b marked with a "*R" are optional core tasks for ANG and AFRC. NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7908.											
A2.1. **CAREER LADDER STRUCTURE** TR: AFIs 36-2108, 36-2101, CFETP 2A0X1C								A	-	-	-
A2.2. **SUPERVISION AND TRAINING**											
A2.2.1. Supervision											
A2.2.1.1. Assign Personnel to Positions TR: AFIs 21-101, 38-101; AFMAN 36-2622, Vol. 1								-	-	-	-
A2.2.1.2. Perform Initial Evaluation TR: AFI 36-2108, AFMAN 36-2247								-	-	-	-
A2.2.1.3. Perform Team Leader Duties TR: AFI 21-101											
A2.2.1.3.1. Establish/Interpret Work Methods								-	-	c	-
A2.2.1.3.2. Establish/Interpret Work Controls								-	-	c	-
A2.2.1.4. Perform Production Superintendent Duties TR: AFI 21-101											
A2.2.1.4.1. Duties and Responsibilities								-	-	-	B
A2.2.1.4.2. Establish/Interpret Work Methods								-	-	c	-
A2.2.1.4.3. Establish/Interpret Work Controls								-	-	c	-
A2.2.1.5. Performing Flight Chief Duties TR: AFIs 21-101, 38-101								-	-	-	B
A2.2.1.6. Performing Expediter Duties TR: AFI 21-101								-	-	-	B
A2.2.1.7. Establish/Interpret Local Operations Instructions (OI) TR: AFI 33-160, Vol. 1								-	-	-	-
A2.2.1.8. Evaluate Work Performance of Subordinate Personnel TR: AFI 36-2406								-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.2.1.9. Conduct Performance Feedback Counseling Sessions TR: AFI 36-2406, AFPAM 36-2627								-	-	-	-
A2.2.1.10. Initiate Action to Correct Substandard Performance of Personnel TR: AFIs 36-2907, 51-202								-	-	-	-
A2.2.1.11. Initiate Action to Commend Superior Performance of Personnel TR: AFI 36-2803								-	-	-	-
A2.2.1.12. Performing Self-Inspection TR: AFI 90-201								-	-	B	A
A2.2.1.13. Additional Duties											
A2.2.1.13.1. Security Monitor TR: AFIs 31-401, 31-501, DoDs 5201.1-R, 5200.2-R, 520038-R								-	-	-	-
A2.2.1.13.2. Safety Monitor TR: AFIs 91-202, 91-301; AFPAM 91-215								-	-	-	-
A2.2.1.13.3. Hazardous Material Monitor TR: AFOSH STDs 48-8, 161-21								-	-	-	-
A2.2.1.13.4. Laser Safety Monitor TR: AFOSH STD 48-139, ANSI Z136.1-XXXX								-	-	-	-
A2.2.1.13.5. Radiation Safety Monitor TR: AFOSH STD 48-9								-	-	-	-
A2.2.1.13.6. Self-Inspection Monitor TR: AFI 90-201								-	-	-	-
A2.2.1.13.7. T.O./TCTO Monitor TR: T.O.s 00-5-1, 00-5-15								-	-	-	-
A2.2.1.13.8. Publications/Files/Forms Monitor TR: AFIs 37-122, 37-138, 37-160, Vol. 7; AFMANs 37-123, 37-139								-	-	-	-
A2.2.1.13.9. Training Programs Monitor TR: AFIs 36-2201, 36-2232; AFMANs 36-2234, 36-2236, 36-2245, 36-2247; ETCA (https://etca.randolph.af.mil)								-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.2.1.13.10. Maintenance Data Collection (MDC)/ Core Automated Maintenance System (CAMS) Monitor TR: AFCSMs 21-556 thru 21-579, T.O. 00-20-2								-	-	-	-
A2.2.1.13.11. Vehicle Monitor TR: AFI 24-302								-	-	-	-
A2.2.1.13.12. Supply/DIFM Monitor TR: AFMAN 23-110, Vol. 2, Pt 13								-	-	-	-
A2.2.1.13.13. Equipment/SPRAM Custodian TR: AFMAN 23-110, Vol. 2, Pt 13								-	-	-	-
A2.2.1.13.14. Bench Stock/Residue Monitor TR: AFMAN 23-110, Vol. 2, Pt 13								-	-	-	-
A2.2.1.13.15. Precious Metal Monitor TR: AFMAN 23-110, Vol. 2, Pt 13								-	-	-	-
A2.2.1.13.16. Reusable Container Monitor TR: AFI 24-202								-	-	-	-
A2.2.1.13.17. Recycle Program Monitor TR: AFI 32-7080								-	-	-	A
A2.2.1.13.18. Mobility Monitor TR: AFH 10-416; AFIs 10-215, 10-403; AFMAN 10-100								-	-	-	-
A2.2.1.13.19. Composite Tool Kit (CTK) Monitor TR: AFI 21-101								-	-	-	-
A2.2.1.13.20. Deficiency Report (DR) Monitor TR: T.O. 00-35D-54								-	-	-	-
A2.2.1.13.21. Automated Data Processing Equipment (ADPE) Monitor TR: AFI 33-112								-	-	-	-
A2.2.1.13.22. Test, Measurement, Diagnostic Equipment (TMDE) Monitor TR: AFI 21-113; T.O.s 00-20-14, 33K-1-100-1/-2								-	-	-	-
A2.2.1.13.23. Aerospace Ground Equipment (AGE)/Support Equipment (SE) Monitor TR: AFI 21-101								-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.2.1.13.24. Foreign Object Damage (FOD) Program Manager TR: AFI 21-101								-	-	-	A
A2.2.1.13.25. Aircraft Monitor TR: AFI 21-101								-	-	-	B
A2.2.1.13.26. Land Mobile Radio (LMR) Monitor TR: AFI 33-106								-	-	-	A
A2.2.1.13.27. Pager and Cell Phone Monitor TR: AFI 33-106								-	-	-	A
A2.2.2. Training											
A2.2.2.1. Evaluate Personnel to Determine Need for Training TR: AFI 36-2201; AFMAN 36-2247								-	-	2c	-
A2.2.2.2. Resident Training TR: AFI 36-2201											
A2.2.2.2.1. Resident Training Effectiveness Evaluations								-	-	-	A
A2.2.2.2.2. Evaluate the Effectiveness of Resident Training								-	-	2c	-
A2.2.2.3. Field Evaluation Questionnaires (FEQ) TR: AETCI 36-2201								-	-	-	A
A2.2.2.4. Student Feedback TR: AETCI 36-2201								-	-	-	A
A2.2.2.5. Plan and Supervise Enlisted Specialty Training (EST) TR: AFI 36-2201, AFMAN 36-2247											
A2.2.2.5.1. Prepare Job Qualifications Standards								-	-	2b	-
A2.2.2.5.2. Request Training TR: ETCA (https://etca.randolph.af.mil)								-	-	-	A
A2.2.2.5.3. Conduct Training								-	-	-	-
A2.2.2.5.4. Counsel Trainees on Their Progress								-	-	-	-
A2.2.2.6. Training Records TR: AFMAN 36-2247, CFETP 2A0X1C											
A2.2.2.6.1. Training Records Maintenance								-	B	-	B

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.2.2.6.2. Maintain Training Records		*						a	-	3c	-
A2.2.2.7. Career Field Education and Training Plan (CFETP) TR: AFI 36-2201								-	-	-	B
A2.2.2.8. Specialty Training Standard (STS) TR: AFMAN 36-2245								-	-	-	B
A2.2.2.9. Occupational Survey Report (OSR) TR: AETCI 36-2201								-	-	-	B
A2.2.2.10. Utilization and Training Workshop (U&TW) TR: AFMAN 36-2245								-	-	-	B
A2.2.2.11. OJT Trainer TR: AFI 36-2201											
A2.2.2.11.1. Prepare Teaching Outlines or Task Breakdowns								-	-	-	-
A2.2.2.11.2. Provide Trainees Theory and Training on Actual Equipment								-	-	-	-
A2.2.2.11.3. Provide Feedback to Trainee/ Supervisor								-	-	-	-
A2.2.2.12. OJT Task Certifier TR: AFI 36-2201											
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								-	-	-	-
A2.3. **SECURITY**											
A2.3.1. Classification of Information TR: AFI 31-401								A	-	-	A
A2.3.2. Security Violations TR: AFI 31-401											

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.3.2.1. Prevent Security Violations								b	-	-	-
A2.3.2.2. Security Violation Prevention								-	-	-	B
A2.3.3. Command, Control, Communications, and Computer (C4) Systems Security TR: AFIs 33-202, 33-204								A	-	-	-
A2.3.4. Destruction of Classified Information TR: AFI 31-401								A	-	-	-
A2.3.5. Specific Vulnerabilities of AFSC 2A0X1 TR:								A	-	-	-
A2.3.6. Physical Security TR: AFI 31-101, Vol. 1; DoDR 5200-8								A	-	-	-
A2.4. **AIR FORCE OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM**											
A2.4.1. Hazards of AFSC 2A0X1 TR:								B	-	-	-
A2.4.2. AFOSH STDs for AFSC 2A0X1C TR: AFIND 17; AFIs 91-301, 91-302; AFOSH STDs 48-8, 48-9, 48-19, 48-139, 91-2, 91-22, 91-31, 91-32, 91-43, 91-45, 91-46, 91-56, 91-66, 91-68, 161-2, 161-17, 161-20, 161-21, 161-21-1G, 161-21-1W								A	B	-	-
A2.4.3. Keep Work Areas Clean and Safe TR: AFOSH STD 91-66								2b	-	-	-
A2.4.4. Electronic Equipment TR: T.O.s 31-1-141-1, 33-1-32											
A2.4.4.1. Electronic Equipment Safety								-	A	-	-
A2.4.4.2. Apply Safety Precautions When Working Around Electronic Equipment								2b	-	-	-
A2.4.5. High Voltage TR: AFOSH STD 91-66; T.O.s 00-25-232, 31-1-141-1, 33-1-32											
A2.4.5.1. High Voltage Safety								-	B	-	-
A2.4.5.2. Apply Safety Precautions When Working Around High Voltage								2b	-	-	-
A2.4.6. Tools TR: T.O.s 00-25-234, 32-1-101, 32-1-151, 32-1-2											

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.4.6.1. Power Tools Safety								-	-	-	-
A2.4.6.2. Hand Tools Safety								-	B	-	-
A2.4.6.3. Apply Safety Precautions When Using Hand Tools								2b	-	-	-
A2.4.7. Compressed Gases TR: T.O.s 42B5-1-2, 42B7-3-1-1											
A2.4.7.1. Compressed Gases Safety								-	B	-	-
A2.4.7.2. Apply Safety Precautions When Working With Compressed Gases								b	-	-	-
A2.4.8. Radioactive Materials TR: AFOSH STD 48-9, T.O. 31-1-141-9											
A2.4.8.1. Radioactive Materials Safety								-	B	-	-
A2.4.8.2. Apply Safety Precautions When Working Around Radioactive Materials								b	-	-	-
A2.4.9. High Intensity Sound TR: AFOSH STD 48-19											
A2.4.9.1. High Intensity Sound Safety								-	B	-	-
A2.4.9.2. Apply Safety Precautions When Working Around High Intensity Sound								b	-	-	-
A2.4.10. RF Radiation TR: AFOSH STD 48-9, T.O. 31-1-141-1											
A2.4.10.1. RF Radiation Principles								B	B	-	-
A2.4.10.2. Effects of RF Radiation								B	B	-	-
A2.4.10.3. Report RF Overexposure								b	-	-	-
A2.4.10.4. Apply Safety Precautions When Working With/Around RF Source								2b	-	-	-
A2.4.11. Lasers Safety TR: AFOSH STD 48-139; ANSI Z136.1-XXXX; T.O.s 31-1-141-1, 31-1-141-3								B	B	-	-
A2.4.12. Ladders Safety TR: AFOSH STD 91-22								-	-	-	-
A2.4.13. Lifting Devices Safety TR: AFOSH STD 91-46								B	B	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.4.14. Apply Safety Precautions When Working With/Around Cathode-ray Tubes (CRT) TR: T.O. 31-1-141-1								b	-	-	-
A2.5. **HAZARDOUS MATERIALS AND WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS** TR: AFOSH STDs 161-21, 161-21-1G, 161-21-1W, T.O. 42C-1-12											
A2.5.1. Types of Hazardous Materials/Fluids TR: AFOSH STDs 48-8, 91-68; AFPAM 32-7043								B	-	-	-
A2.5.2. Handling Procedures TR: AFI 32-7042, AFJMAN 23-209, AFOSH STD 91-68, AFPAM 32-7043								B	-	-	-
A2.5.3. Storage and Labeling TR: AFI 32-7042, AFJMAN 23-209, AFOSH STD 91-68, AFPAM 32-7043								B	-	-	-
A2.5.4. Proper Disposal TR: AFI 32-7042, AFOSH STD 91-68, AFPAM 32-7043								B	-	-	-
A2.5.5. Waste Minimization TR: AFPAM 32-7043								B	-	-	-
A2.5.6. Freon Service and Recovery TR: 40 CFR, Chap 1, Part 82								B	-	-	-
A2.5.7. Apply Safety Precautions When Working With Hazardous Materials TR: AFOSH STD 48-8								b	-	-	-
A2.6. **TECHNICAL PUBLICATIONS**											
A2.6.1. Standard Publications TR: AFI 37-160, V1								-	A	-	-
A2.6.2. USAF T.O. System Management											
A2.6.2.1. USAF T.O. System Function and Application TR: T.O.s 00-5-1, 00-5-2, 00-5-15, 00-5-18								A	A	-	B

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.6.2.2. Computer Program Identification Number (CPIN) System/Automated Computer Program Identification Number (ACPIN) System TR: T.O.s 00-5-1, 00-5-2, 00-5-16, 00-5-17, 00-5-18								A	-	-	-
A2.6.2.3. Using T.O. Indexes TR: T.O. 00-5-2								-	A	-	-
A2.6.2.4. Use Methods and Procedures T.O.s TR: T.O. 00-Series								-	-	-	-
A2.6.2.5. T.O. Deficiency Reporting Procedures TR: T.O. 00-5-1								-	B	-	-
A2.6.2.6. Use T.O.s to Perform TR: Applicable T.O.(s)											
A2.6.2.6.1. Maintenance								2b	-	-	-
A2.6.2.6.2. Inspections/Line Replaceable Unit (LRU) Inspections								2b	-	-	-
A2.6.2.6.3. Part Number Research								2b	-	-	-
A2.7. **AIR FORCE SUPPLY DISCIPLINE**											
A2.7.1. Supply Discipline TR: AFMAN 23-110, Vol. 2, Pt 13								A	B	-	B
A2.7.2. Use Supply Cross References TR: USAF S-2A-1, Use Federal Logistics Data (FEDLOG), D043								2b	b	-	-
A2.7.3. Supply Procedures											
A2.7.3.1. Asset Requisition/Turn-In TR: AFMAN 23-110, Vol. 2, Pt. 13											
A2.7.3.1.1. Requisitioning Principles								-	-	-	B
A2.7.3.1.2. Perform Requisition Procedures								-	b	2b	-
A2.7.3.1.3. Use Issue/Turn-in Requests	*							2b	-	-	-
A2.7.3.2. Asset Receiving TR: AFMAN 23-110, Vol. 2, Pt. 13											
A2.7.3.2.1. Receiving Principles								-	-	-	B
A2.7.3.2.2. Perform Receiving Procedures	*							-	b	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.7.3.3. Condition Tags TR: T.O. 00-20-3											
A2.7.3.3.1. Condition Tags Principles								-	-	-	B
A2.7.3.3.2. Complete Condition Tags								2b	b	-	-
A2.7.3.4. Reparable Assets Processing and Control TR: AFMAN 23-110, Vol. 2, Pt. 13, T.O. 00-20-3											
A2.7.3.4.1. Reparable Asset Processing and Control Principles								A	-	-	B
A2.7.3.4.2. Process and Control Reparable Assets								-	b	c	-
A2.7.3.5. Equipment Accounts TR: AFMAN 23-110, Vol. 2, Pt. 13								-	-	-	B
A2.7.3.6. Priority Systems TR: AFMAN 23-110, Vol. 2, Pt. 13								-	-	-	B
A2.7.3.7. Classified Assets Handling TR: AFMAN 23-110, Vol. 2, Pt. 13								-	-	-	A
A2.7.3.8. Monitor Supply Automated Data Listing TR: AFMAN 23-110, Vol. 2, Pt. 13								-	-	2b	-
A2.7.3.9. Establish and Justify Special Stock Level TR: AFMAN 23-110, Vol. 2, Pt. 13								-	-	-	-
A2.7.3.10. Acquisition Program Process TR: AFI 21-133(I)								-	-	-	A
A2.8. **MAINTENANCE AND INSPECTION**											
A2.8.1. Levels of Maintenance TR: AFI 21-101								A	-	-	-
A2.8.2. Responsibilities of the Maintenance Organization TR: AFIs 21-101, 38-101								-	B	-	B
A2.8.3. Basic Functions within the Maintenance Organization TR: AFIs 21-101, 38-101								A	B	B	B
A2.8.4. Logistics and Resource Management											
A2.8.4.1. Logistics Management TR: AFI 21-101								-	-	-	B

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.8.4.2. Operations/Logistics Group Commander Responsibilities TR: AFIs 21-101, 38-101								-	-	-	B
A2.8.4.3. Resource Management TR: AFI 65-601, Vol. 2								-	-	-	B
A2.8.4.4. Product Improvement Working Group (PIWG)/Program Management Review (PMR) TR: AFI 21-118								-	-	-	A
A2.8.4.5. Financial Plan (FIN Plan) TR: AFI 65-601, Vol. 2								-	-	-	A
A2.8.4.6. Air Force Materiel Command (AFMC) Responsibilities											
A2.8.4.6.1. Operational Test and Evaluation (OT&E) TR: AFIs 63-101, 99-102								-	-	-	A
A2.8.4.6.2. Developmental Test and Evaluation (DT&E) TR: AFIs 63-101, 99-101								-	-	-	A
A2.8.5. Status of Resources and Training System (SORTS) TR: AFI 10-201								-	-	A	A
A2.8.6. Status Reports TR: AFI 21-103								-	-	-	B
A2.8.7. Maintenance Quality Performance Measures (QPM) Relationship TR: ACCI 21-118								-	-	-	B
A2.8.8. Maintenance Incident Investigation and Prevention TR: AFIs 91-202, 91-204; AFJI 91-206								-	-	-	B
A2.8.9. Mobility TR: AFH 10-416; AFIs 10-215, 10-403; AFMAN 10-100								-	-	-	A
A2.8.10. Inspection Systems TR: T.O. 00-20-5								A	-	B	-
A2.8.11. Product Improvement											
A2.8.11.1. Deficiency Reports TR: T.O. 00-35D-54, AFSCM 21-578, Vol. 2								A	B	B	-

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.8.11.2. Warranty TR: AFM 64-110								-	B	B	-
A2.8.12. Maintenance Data Collection (MDC)											
A2.8.12.1. Fundamentals and Application of MDC TR: T.O. 00-20-2								A	-	-	-
A2.8.12.2. Job Data Documentation (JDD) TR: AFCSM 21-563, Vol. 2; T.O. 00-20-2								-	-	-	B
A2.8.12.3. Access Menu and Data Screens, Using an Automated Maintenance Data System (AMDS) TR: Applicable AMDS manual(s)								2b	-	-	-
A2.8.13. Automated Maintenance Data Systems (AMDS)											
A2.8.13.1. Comprehensive Engine Management System (CEMS) TR: AFCSM 21-558, Vol. 2; T.O.s 00-20-2, 00-25-254-1/2								-	-	-	A
A2.8.13.2. Reliability and Maintainability Information System (REMIS) TR: T.O. 00-20-2								-	-	-	A
A2.8.13.3. Standard Base Supply System (SBSS) TR: AFMAN 23-110								-	-	-	A
A2.8.13.4. Reliability, Availability, Maintainability, Logistics Engineering Support for Electronic Attack Pods, Avionics Pods and Integrated Systems (RAMPOD) TR: LANTIRN Collection System (LCS) Manual								A	-	-	A
A2.8.13.5. GO81 (AMC system) TR: AMCI 21-112, T.O. 00-20-2								-	-	-	A

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.8.13.6. Core Automated Maintenance System (CAMS) TR: AFCSM 21-556, Vol. 1-3; 21-558, Vol. 2; 21-559, Vol. 2; 21-560, Vol. 2; 21-561, Vol. 2; 21-562, Vol. 2; 21-563, Vol. 2; 21-564, Vol. 2; 21-565, Vol. 2; 21-566, Vol.2; 21-567, Vol. 2; 21-568, Vol. 2; 21-569,Vol. 2; 21-570, Vol. 2; 21-571, Vol. 2; 21-572, Vol. 2; 21-573, Vol. 2; 21-574,Vol. 2; 21-575, Vol. 2; 21-576, Vol. 2; 21-577, Vol. 2; 21-578, Vol. 2; 21-579,Vol. 2; (https://ceds.ssg.gunter.af.mil/manlist.asp?CAMS); T.O. 00-20-2												
A2.8.13.6.1. CAMS Principles								-	B	-	A
A2.8.13.6.2. Input MDC Data TR: AFCSMs 21-561, Vol. 2; 21-563, Vol. 2; T.O. 00-20-2	*							2b	c	-	-
A2.8.13.6.3. Input Supply Data TR: AFCSM 21-579, Vol. 2								-	b	-	-
A2.8.13.6.4. Input/Review DR Data TR: AFCSM 21-578, Vol. 2								-	-	-	-
A2.8.13.6.5. Extract On-Line Data TR: AFCSMs 21-559, Vol. 2; 21-561, Vol. 2; 21-562, Vol. 2; 21-563, Vol. 2; 21-564, Vol. 2; 21-565, Vol. 2; 21-566, Vol. 2; 21-568, Vol. 2; 21-569, Vol. 2; 21-570, Vol. 2; 21-579, Vol. 2; 21-579, Vol. 2								2b	b	c	-
A2.8.13.6.6. Input/Extract Personnel Data TR: AFCSM 21-578, Vol. 2								-	-	-	-
A2.8.13.6.7. Use SBSS Interface to TR: AFCSM 21-579, Vol. 2											
A2.8.13.6.7.1. Order Parts	*							2b	c	c	-
A2.8.13.6.7.2. Process Supply Inquiries								1a	-	-	-
A2.8.13.6.8. Automated History Input/Extraction TR: AFCSM 21-566, Vol. 2								-	-	-	B
A2.8.14. Perform Cannibalization Procedures TR: AFI 21-101								-	-	-	-
A2.8.15. Configuration Management TR: AFI 21-101								-	-	-	A

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.8.16. Complete CAMS CBT J6ANU00066-043, CAMS for Flightline and Backshop	*							-	-	-	-
A2.9. **METROLOGY PRINCIPLES** TR: AFI 21-113, MIL-HDBK-1839, T.O. 00-20-14											
A2.9.1. Traceability (Ability to Trace the Line of Documentation to the Source Standard at National Bureau of Standards)								A	-	-	-
A2.9.2. Management of Environmental Conditions								-	-	-	-
A2.9.3. Substitution of TMDE Standards								A	-	-	-
A2.9.4. Quality Assurance Program								-	-	-	-
A2.9.5. Use Calibration Correction Charts								a	-	-	-
A2.9.6. Complete TMDE Form Documentation/ Certification								a	-	-	-
A2.9.7. Mathematical Computations (Calculate TMDE-Related Parameters)								2b	-	-	-
A2.10. **GENERAL MAINTENANCE PRACTICES**											
A2.10.1. Perform Corrosion Control TR: T.O.s 1-1-689, 1-1-691								a	-	-	-
A2.10.2. Perform Safety Wiring TR: T.O. 00-25-234								2b	-	-	-
A2.10.3. Perform Cable Repair TR:											
A2.10.3.1. Perform Cable Lacing								-	-	-	-
A2.10.3.2. Perform Video Splicing								-	-	-	-
A2.10.3.3. Perform Connector Potting								-	-	-	-
A2.10.4. Clean Optical Surfaces TR:								2b	-	-	-
A2.10.5. Inventory and Inspect Composite Tool Kits (CTKs) TR: AFI 21-101								2b	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.10.6. Electrostatic Sensitive Device (ESD) TR: DoD HDBK 263, DoD STD 1686, MIL STD-129, T.O. 00-25-234											
A2.10.6.1. Electrostatic Sensitive Device (ESD) Principles								-	B	-	-
A2.10.6.2. Perform Electrostatic Sensitive Device (ESD) Procedures								2b	-	b	-
A2.10.7. Troubleshooting Techniques											
A2.10.7.1. Use Automatic Test Station TR: Applicable equipment T.O.(s)/ manual(s)								2b	-	-	-
A2.10.7.2. Analytical Troubleshooting TR: T.O.s 31-1-141-9, Sec. 2; 31-1-141-7, Sec. 12											
A2.10.7.2.1. Analytical Troubleshooting Principles								A	B	-	C
A2.10.7.2.2. Perform Analytical Troubleshooting								-	-	2b	-
A2.10.7.3. Schematics and Wiring/Block Diagrams TR: Applicable Technical Data											
A2.10.7.3.1. Schematics and Wiring/Block Diagrams Principles								-	B	-	-
A2.10.7.3.2. Read Schematics and Wiring/Block Diagrams	*							2b	-	2b	-
A2.10.7.4. Evaluate Film TR: T.O. 31-1-141-9, Sec. 6								-	-	-	-
A2.11. **DIRECT SUPPORT EQUIPMENT**											
A2.11.1. Test Equipment Care and Handling TR: T.O.s 00-85B-3, 1-1A-15, 31-1-141-14, 42C-1-1											
A2.11.1.1. Test Equipment Care and Handling Principles								-	B	-	-
A2.11.1.2. Care for and Handle Test Equipment								b	-	-	-
A2.10.1.3. Prepare for Shipment								-	-	-	-
A2.10.1.4. Prepare for Storage								-	-	-	-
A2.10.1.5. Prepare for Climate Conditions								-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.11.2. Use/Maintain System Test Sets/Support Equipment											
A2.11.2.1. Document AFTO Form 244 TR: T.O. 00-20-5								c	-	-	-
A2.11.2.2. Document Automated Forms TR:								-	-	-	-
A2.11.2.3. Perform Periodic Maintenance TR: Applicable equipment T.O.(s)/ manual(s)								2b	-	-	-
A2.11.2.4. Verify Functional Integrity TR: Applicable equipment T.O.(s)/ manual(s)								c	-	-	-
A2.11.2.5. Perform Alignments TR: Applicable equipment T.O.(s)/ manual(s)								c	-	-	-
A2.11.2.6. Perform Calibration TR: Applicable equipment T.O.(s)/ manual(s)								c	-	-	-
A2.11.2.7. Repair Equipment TR: Applicable equipment T.O.(s)/ manual(s)								b	-	-	-
A2.11.2.8. Inspect Equipment TR: Applicable equipment T.O.(s)/ manual(s)								2b	-	-	-
A2.11.3. Power Distribution TR: Applicable equipment T.O.(s)/ manual(s)								A	-	-	-
A2.11.4. Stimulus Devices TR: Applicable equipment T.O.(s)/ manual(s)								A	-	-	-
A2.11.5. Measurement Devices TR: Applicable equipment T.O.(s)/ manual(s)								A	-	-	-
A2.11.6. Computer Control TR: Applicable equipment T.O.(s)/ manual(s)								A	-	-	-
A2.11.7. Data Bus Communication											
A2.11.7.1. IEEE Bus Communication Standard TR: IEEE-488								A	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.11.7.2. 488/1553 Data Bus Theory TR: IEEE-488, MIL-STD-1553								A	B	-	-
A2.11.8. Signal Routing Description TR:								A	B	-	-
A2.11.9. Use, Maintain, Test, Inspect and Service LANTIRN Support Equipment											
A2.11.9.1. LANTIRN Mobility Shelter Set (LMSS) TR: T.O.s 35E4-195-1, 35E4-205-1											
A2.11.9.1.1. Description								A	B	-	-
A2.11.9.1.2. Prepare for Shipment (Decomplex)											
A2.11.9.1.2.1. Electro-Optical Test Set (EOTS)								-	-	-	-
A2.11.9.1.2.2. Hoist/Monorail								-	-	-	-
A2.11.9.1.2.3. Peripheral Equipment											
A2.11.9.1.2.3.1. Cooling and Servicing Unit (CSU)								-	-	-	-
A2.11.9.1.2.3.2. Fluid Conditioner Unit (FCU)								-	-	-	-
A2.11.9.1.2.3.3. 400-Hz Converter								-	-	-	-
A2.11.9.1.2.3.4. Air Conditioner								-	-	-	-
A2.11.9.1.2.3.5. Diesel Generator								-	-	-	-
A2.11.9.1.2.3.6. Caster Jacks								-	-	-	-
A2.11.9.1.2.3.7. Shelter A and B								-	-	-	-
A2.11.9.1.2.3.8. Side Walls								-	-	-	-
A2.11.9.1.2.3.9. A-Frame Gantry								-	-	-	-
A2.11.9.1.3. Prepare for Use (Complex)											
A2.11.9.1.3.1. Electro-Optical Test Set (EOTS)								-	-	-	-
A2.11.9.1.3.2. Hoist/Monorail								-	-	-	-
A2.11.9.1.3.3. Peripheral Equipment											
A2.11.9.1.3.3.1. Cooling and Servicing Unit (CSU)								-	-	-	-
A2.11.9.1.3.3.2. Fluid Conditioner Unit (FCU)								-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.11.9.1.3.3.3. 400-Hz Converter								-	-	-	-
A2.11.9.1.3.3.4. Air Conditioner								-	-	-	-
A2.11.9.1.3.3.5. Diesel Generator								-	-	-	-
A2.11.9.1.3.3.6. Caster Jacks								-	-	-	-
A2.11.9.1.3.3.7. Shelter A and B								-	-	-	-
A2.11.9.1.3.3.8. Side Walls								-	-	-	-
A2.11.9.1.3.3.9. A-Frame Gantry								-	-	-	-
A2.11.9.2. LANTIRN Integrated Automatic Test Equipment (LIATE) TR: T.O. 33D7-38-273-1											
A2.11.9.2.1. Description								A	A	-	-
A2.11.9.2.2. Theory of Operation								B	B	-	-
A2.11.9.2.3. LIATE Startup								-	-	-	-
A2.11.9.2.4. LIATE Shutdown								-	-	-	-
A2.11.9.2.5. Operational Checkout											
A2.11.9.2.5.1. Perform Confidence and Instrument Self Tests	*							2b	-	-	-
A2.11.9.2.5.2. Perform LNST 1	*							-	-	-	-
A2.11.9.2.5.3. Perform LNST 2	*							-	-	-	-
A2.11.9.2.5.4. Load Station Software		*						-	-	-	-
A2.11.9.2.5.5. Perform LIATE Verification Using PATEC								-	-	-	-
A2.11.9.3. LANTIRN AEF Tester (LAT) TR: TBD											
A2.11.9.3.1. Description								-	-	-	-
A2.11.9.3.2. Theory of Operation								-	-	-	-
A2.11.9.3.3. LAT Startup								-	-	-	-
A2.11.9.3.4. LAT Shutdown								-	-	-	-
A2.11.9.3.5. Operational Checkout											

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.11.9.3.5.1. Perform Confidence and Instrument Self Tests								-	-	-	-
A2.11.9.3.5.2. Perform LNST 1								-	-	-	-
A2.11.9.3.5.3. Perform LNST 2								-	-	-	-
A2.11.9.3.5.4. Load Station Software								-	-	-	-
A2.11.9.3.5.5. Perform LAT Verification Using PATEC								-	-	-	-
A2.11.9.4. Radio Frequency Augmentation Test Stand (RFAUTS) TR: T.O. 33A1-5-504-1											
A2.11.9.4.1. Description								A	A	-	-
A2.11.9.4.2. Theory of Operation								B	B	-	-
A2.11.9.4.3. Perform LNST 3	*							-	-	-	-
A2.11.9.4.4. Perform RFAUTS Verification Using PATEC								-	-	-	-
A2.11.9.5. Electro-Optical Test Stand (EOTS) TR: T.O. 33DA1-14-17-1											
A2.11.9.5.1. Description								A	A	-	-
A2.11.9.5.2. Theory of Operation								B	B	-	-
A2.11.9.5.3. Perform LNST 4		*						-	-	-	-
A2.11.9.5.4. Perform Alignments											
A2.11.9.5.4.1. Mounting Point Standard (MPS) Inclinometer	*							-	-	-	-
A2.11.9.5.4.2. Telescope Autocollimator Internal		*						-	-	-	-
A2.11.9.5.4.3. LAM/FAM		*						-	-	-	-
A2.11.9.5.4.4. FLIR Characterization Module		*						-	-	-	-
A2.11.9.5.4.5. Fiber-Optical Cable								-	-	-	-
A2.11.9.5.4.6. Calibrate Blackbody Source								-	-	-	-
A2.11.9.6. Environmental Control Unit Test Station (ECUTS) TR: T.O. 33D7-61-112-1											

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.11.9.6.1. Description								A	A	-	-
A2.11.9.6.2. Theory of Operation								B	B	-	-
A2.11.9.6.3. Perform Operational Self-test	*							-	-	-	-
A2.11.9.6.4. Load Station Software								-	-	-	-
A2.11.9.7. Power Supply Test Station (PSTS) TR: T.O. 33D7-6-261-1											
A2.11.9.7.1. Description								A	A	-	-
A2.11.9.7.2. Theory of Operation								B	B	-	-
A2.11.9.7.3. Perform Operational Self-test	*							-	-	-	-
A2.11.9.7.4. Load System Software								-	-	-	-
A2.11.9.8. Cooling and Servicing Unit (CSU) TR: T.O. 33DA102-25-1											
A2.11.9.8.1. Description								A	-	-	-
A2.11.9.8.2. Theory of Operation								B	-	-	-
A2.11.9.8.3. Operate	*							-	-	-	-
A2.11.9.8.4. Perform Refrigerant Charge Check/ Recovery								-	-	-	-
A2.11.9.9. Fluid Conditioning Unit (FCU) TR: T.O. 33DA49-25-1											
A2.11.9.9.1. Description								-	-	-	-
A2.11.9.9.2. Theory of Operation								-	-	-	-
A2.11.9.9.3. Operate								-	-	-	-
A2.11.9.9.4. Perform Scheduled Maintenance								-	-	-	-
A2.11.9.10. 400-Hz Converter TR: T.O. 33D7-17-83-1											
A2.11.9.10.1. Description								A	-	-	-
A2.11.9.10.2. Theory of Operation								B	-	-	-
A2.11.9.10.3. Test and Inspect								-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.11.9.11. ST100A Freon Recovery System TR: Commercial Manual											
A2.11.9.11.1. Description								A	-	-	-
A2.11.9.11.2. Theory of Operation								B	-	-	-
A2.11.9.11.3. Operate								-	-	-	-
A2.11.9.12. Portable Reprogramming Station (PRS) TR: T.O. 31S5-4-6098-1											
A2.11.9.12.1. Description								A	-	-	-
A2.11.9.12.2. Theory of Operation								B	-	-	-
A2.11.9.12.3. Operate								-	-	-	-
A2.11.9.12.4. Install New Loads	*							-	-	-	-
A2.11.9.12.5. Program EPROMS								-	-	-	-
A2.11.9.12.6. Program Programmable CCAs	*							-	-	-	-
A2.11.9.12.7. Program APCCs	*							-	-	-	-
A2.11.9.12.8. Remove/Replace TRUs								-	-	-	-
A2.11.9.13. Download and Analyze Data with Portable Data Terminal (PDT) TR: T.O. 31S5-4-3623-1		*						-	-	-	-
A2.11.9.14. Transfer Pods/Systems To/From Storage/Holding Fixture TR: T.O.s 11F1-AAQ13-2, 11F1-AAQ14-2											
A2.11.9.14.1. Shipping Container								-	-	-	-
A2.11.9.14.2. Maintenance Fixture, Portable or Fixed								2b	-	-	-
A2.11.9.14.3. Transport Trailer								-	-	-	-
A2.11.10. Use, Maintain, Test, Inspect and Service Pave Penny Support Equipment											
A2.11.10.1. Detector Simulator TR: T.O. 33D5-20-28-1											
A2.11.10.1.1. Description								A	A	-	-

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.11.10.1.2. Theory of Operation								B	B	-	-
A2.11.10.1.3. Perform Operational Checkout	*							2b	-	-	-
A2.11.10.1.4. Perform Periodic Inspection								-	-	-	-
A2.11.10.1.5. Perform Preventive Maintenance								-	-	-	-
A2.11.10.1.6. Perform Calibration								-	-	-	-
A2.11.10.2. Aircraft Simulator TR: T.O. 33D5-20-27-1											
A2.11.10.2.1. Description								A	A	-	-
A2.11.10.2.2. Theory of Operation								B	B	-	-
A2.11.10.2.3. Perform Operational Checkout	*							2b	-	-	-
A2.11.10.2.4. Perform Periodic Inspection								-	-	-	-
A2.11.10.2.5. Perform Preventive Maintenance.								-	-	-	-
A2.11.10.2.6. Perform Calibration								-	-	-	-
A2.11.10.3. Torque Motor Test Set TR: T.O. 33D5-64-2-1											
A2.11.10.3.1. Description								A	A	-	-
A2.11.10.3.2. Theory of Operation								B	B	-	-
A2.11.10.3.3. Perform Operational Checkout								-	-	-	-
A2.11.10.3.4. Perform Periodic Inspection								-	-	-	-
A2.11.10.3.5. Perform Preventive Maintenance								-	-	-	-
A2.11.10.3.6. Perform Calibration								-	-	-	-
A2.11.10.4. Detector Test Set TR: T.O. 33D5-40-6-1											
A2.11.10.4.1. Description								A	A	-	-
A2.11.10.4.2. Theory of Operation								B	B	-	-
A2.11.10.4.3. Perform Operational Checkout	*							2b	-	-	-
A2.11.10.4.4. Perform Periodic Inspection								-	-	-	-
A2.11.10.4.5. Perform Preventive Maintenance								-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.11.10.4.6. Perform Calibration								-	-	-	-
A2.11.10.5. Collimator TR: T.O. 33D5-65-2-1											
A2.11.10.5.1. Description								A	A	-	-
A2.11.10.5.2. Theory of Operation								B	B	-	-
A2.11.10.5.3. Perform Operational Checkout	*							2b	-	-	-
A2.11.10.5.4. Perform Periodic Inspection								-	-	-	-
A2.11.10.5.5. Perform Preventive Maintenance								-	-	-	-
A2.11.10.5.6. Perform Alignment	*							2b	-	-	-
A2.11.11. Use, Maintain, Test, Inspect, and Service CTVS Test Set and Tool Kit TR: T.O. 33D7-88-13-2											
A2.11.11.1. Description								-	-	-	-
A2.11.11.2. Theory of Operation								-	-	-	-
A2.11.11.3. Perform Operational Checkout								-	-	-	-
A2.11.11.4. Perform Periodic Inspection								-	-	-	-
A2.11.11.5. Perform Preventive Maintenance								-	-	-	-
A2.11.12. Operate Video Monitor TR: Applicable equipment T.O.(s)/ manual(s)								-	-	-	-
A2.11.13. Use, Maintain, Test, Inspect, and Service U-2 Sensors Support Equipment											
A2.11.13.1. Camera Test and Checkout Console (T&C) TR: 8011-TAC-2											
A2.11.13.1.1. Perform Operational Checkout								-	-	-	-
A2.11.13.1.2. Perform Scheduled Inspections								-	-	-	-
A2.11.13.1.3. Troubleshoot								-	-	-	-
A2.11.13.1.4. Repair								-	-	-	-
A2.11.13.2. ES-64 Expandable Shelter TR: 10M1-7-3-1											

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.11.13.2.1. Inspect								-	-	-	-
A2.11.13.2.2. Use								-	-	-	-
A2.11.13.2.3. Maintain								-	-	-	-
A2.11.13.3. RG-156 Hatch Cart TR: 1U-2S-2-12, 1U-2S-(GSE)-6WC-1PE											
A2.11.13.3.1. Inspect								-	-	-	-
A2.11.13.3.2. Use								-	-	-	-
A2.11.13.3.3. Maintain								-	-	-	-
A2.11.13.4. OBC Operation and Maintenance Dolly TR: Applicable equipment T.O.(s)/ manual(s)											
A2.11.13.4.1. Inspect								-	-	-	-
A2.11.13.4.2. Use								-	-	-	-
A2.11.13.4.3. Maintain								-	-	-	-
A2.11.14. Use, Maintain, Test, Inspect, and Service IRADS Test Station (CATE) TR: T.O. 20G5000											
A2.11.14.1. Description								A	A	-	-
A2.11.14.2. Theory								B	B	-	-
A2.11.14.3. Operate								-	-	-	-
A2.12. **SENSOR SYSTEMS MAINTENANCE PRINCIPLES**											
A2.12.1. Closed-Circuit Television (CCTV) Systems TR: T.O. 31-141-1-9								B	B	-	-
A2.12.2. Infrared (IR) Systems TR: T.O. 31-141-1-9								B	B	-	-
A2.12.3. Laser Systems TR: T.O. 31-1-141-3								B	B	-	-
A2.12.4. Radar Systems TR: T.O. 31-1-141-9								B	B	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.12.5. Environmental Control Systems (ECS) TR:								B	B	-	-
A2.12.6. Servo Systems TR:								B	-	-	-
A2.12.7. Optics TR: T.O. 31-1-141-3								A	B	-	-
A2.13. **SENSOR SYSTEMS MAINTENANCE**											
A2.13.1. Low Altitude Navigation and Targeting Infrared for Night (LANTIRN) System											
A2.13.1.1. Navigation Set, AAQ-13 TR: T.O.s 11F1-AAQ13-2, 11F1-AAQ13-8-2											
A2.13.1.1.1. Description								A	B	-	-
A2.13.1.1.2. Theory of Operation								B	B	-	-
A2.13.1.1.3. Run Functional Test	*							2b	-	-	-
A2.13.1.1.4. Remove and Install											
A2.13.1.1.4.1. Radar Interface Unit (RIU)								-	-	-	-
A2.13.1.1.4.2. Antenna Gimbal (A/G)	*							-	-	-	-
A2.13.1.1.4.3. Transmitter (XMTR)								-	-	-	-
A2.13.1.1.4.4. Receiver/Exciter (R/E)	*							-	-	-	-
A2.13.1.1.4.5. Radar Power Supply (RPS)								-	-	-	-
A2.13.1.1.4.6. Radar Pressurizing Unit (RPU)								-	-	-	-
A2.13.1.1.4.7. Navigation Set Computer (NSC)								-	-	-	-
A2.13.1.1.4.8. Infrared Receiver (IR)								-	-	-	-
A2.13.1.1.4.9. Navigation Set Power Supply (NSPS)	*							-	-	-	-
A2.13.1.1.4.10. Environmental Control Unit (ECU)								-	-	-	-
A2.13.1.1.4.11. Electro-Magnetic Interference (EMI) Filter								-	-	-	-
A2.13.1.1.5. Service											
A2.13.1.1.5.1. Coolant Loop								-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.13.1.1.5.2. Radar Pressurization Unit (RPU)	*							-	-	-	-
A2.13.1.1.5.3. Infrared Receiver (IR)	*							-	-	-	-
A2.13.1.1.6. Terrain Following Radar (TFR) TR: T.O.s 11F1-AAQ13-2, 11F1-AAQ13-8-2											
A2.13.1.1.6.1. Description								-	A	-	-
A2.13.1.1.6.2. Theory of Operation								-	B	-	-
A2.13.1.1.7. Radar Interface Unit (RIU) TR: T.O.s 11F1-AAQ13-2, 11F1-AAQ13-8-8											
A2.13.1.1.7.1. Description								-	A	-	-
A2.13.1.1.7.2. Theory of Operation								-	B	-	-
A2.13.1.1.7.3. Run Functional Test								-	-	-	-
A2.13.1.1.7.4. Remove and Install SRUs								-	-	-	-
A2.13.1.1.8. Antenna Gimbal (A/G) TR: T.O.s 11F1-AAQ13-2, 11F1-AAQ13-8-5											
A2.13.1.1.8.1. Description								-	A	-	-
A2.13.1.1.8.2. Theory of Operation								-	B	-	-
A2.13.1.1.8.3. Run Functional Test								2b	-	-	-
A2.13.1.1.8.4. Remove and Install SRUs								-	-	-	-
A2.13.1.1.8.5. Repair								-	-	-	-
A2.13.1.1.9. Transmitter (XMTR) TR: T.O.s 11F1-AAQ13-2, 11F1-AAQ13-8-6											
A2.13.1.1.9.1. Description								-	A	-	-
A2.13.1.1.9.2. Theory of Operation								-	B	-	-
A2.13.1.1.9.3. Run Functional Test								-	-	-	-
A2.13.1.1.9.4. Remove and Install SRUs								-	-	-	-
A2.13.1.1.9.5. Repair								-	-	-	-
A2.13.1.1.9.6. Service								-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.13.1.1.9.7. Perform Alignment								-	-	-	-
A2.13.1.1.10. Receiver/Exciter (R/E) TR: T.O.s 11F1-AAQ13-2, 11F1-AAQ13-8-7											
A2.13.1.1.10.1. Description								-	A	-	-
A2.13.1.1.10.2. Theory of Operation								-	B	-	-
A2.13.1.1.10.3. Run Functional Test								-	-	-	-
A2.13.1.1.10.4. Remove and Install SRUs								-	-	-	-
A2.13.1.1.11. Radar Power Supply (RPS) TR: T.O. 11F1-AAQ13-2											
A2.13.1.1.11.1. Description								-	A	-	-
A2.13.1.1.11.2. Theory of Operation								-	B	-	-
A2.13.1.1.11.3. Run Functional Test								-	-	-	-
A2.13.1.1.11.4. Remove and Install SRUs								-	-	-	-
A2.13.1.1.12. Radar Pressurization Unit (RPU) TR: T.O. 11F1-AAQ13-2											
A2.13.1.1.12.1. Description								-	A	-	-
A2.13.1.1.12.2. Theory of Operation								-	B	-	-
A2.13.1.1.12.3. Repair								-	-	-	-
A2.13.1.1.13. Navigation Set Computer (NSC) TR: T.O.s 11F1-AAQ13-2, 11F1-AAQ13-8-1											
A2.13.1.1.13.1. Description								-	A	-	-
A2.13.1.1.13.2. Theory of Operation								-	B	-	-
A2.13.1.1.13.3. Run Functional Test								-	-	-	-
A2.13.1.1.13.4. Remove and Install SRUs								-	-	-	-
A2.13.1.1.13.5. Repair								-	-	-	-
A2.13.1.1.13.6. Load Operational Flight Program (OFP)								-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.13.1.1.14. Infrared Receiver (IR) TR: T.O.s 11F1-AAQ13-2, 11F1-AAQ13-8-3, -4											
A2.13.1.1.14.1. Description								-	A	-	-
A2.13.1.1.14.2. Theory of Operation								-	B	-	-
A2.13.1.1.14.3. Run Functional Test								-	-	-	-
A2.13.1.1.14.4. Remove and Install SRUs								-	-	-	-
A2.13.1.1.14.5. Repair								-	-	-	-
A2.13.1.1.15. Navigation Set Power Supply (NSPS) TR: T.O. 11F1-AAQ13-2											
A2.13.1.1.15.1. Description								-	A	-	-
A2.13.1.1.15.2. Theory of Operation								-	B	-	-
A2.13.1.1.15.3. Run Functional Test								-	-	-	-
A2.13.1.1.15.4. Remove and Install SRUs								-	-	-	-
A2.13.1.1.16. Environmental Control Unit (ECU) TR: T.O. 11F1-AAQ13-2											
A2.13.1.1.16.1. Description								-	A	-	-
A2.13.1.1.16.2. Theory of Operation								-	B	-	-
A2.13.1.1.16.3. Run Functional Test								2b	-	-	-
A2.13.1.1.16.4. Remove and Install SRUs								-	-	-	-
A2.13.1.1.16.5. Repair								-	-	-	-
A2.13.1.1.16.6. Service											
A2.13.1.1.16.6.1. Coolant								-	-	-	-
A2.13.1.1.16.6.2. Freon								-	-	-	-
A2.13.1.2. Targeting Set, AAQ-14 TR: T.O. 11F1-AAQ14-2											
A2.13.1.2.1. Description								A	B	-	-
A2.13.1.2.2. Theory of Operation								B	B	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.13.1.2.3. Run Functional Test	*							2b	-	-	-
A2.13.1.2.4. Perform Alignments TR: T.O. 11F1-AAQ14-8-1											
A2.13.1.2.4.1. Drift Bias Adjustment (AL1)								-	-	-	-
A2.13.1.2.4.2. Focus Adjustment (AL2)								-	-	-	-
A2.13.1.2.4.3. Deroll Symbology Bias (AL3)								-	-	-	-
A2.13.1.2.4.4. Pitch/Yaw-to-Roll Resolver Bias (AL4)	*							-	-	-	-
A2.13.1.2.4.5. Roll/Deroll-to-Mount Bias (AL5)	*							-	-	-	-
A2.13.1.2.4.6. AZ/EL-to-Mount PT System Bias (AL6)								-	-	-	-
A2.13.1.2.4.7. Gain Balance Adjustment (AL7)								-	-	-	-
A2.13.1.2.4.8. Dead Channel Strap (AL9)								-	-	-	-
A2.13.1.2.4.9. FLIR LOS-to-Pitch Axis (AL10)	*							-	-	-	-
A2.13.1.2.4.10. Detector Temperature Adjust (AL11)								-	-	-	-
A2.13.1.2.4.11. Detector Position Adjust (AL12)								-	-	-	-
A2.13.1.2.4.12. TAF to Deroll (AL13)	*							-	-	-	-
A2.13.1.2.4.13. Shroud Actuator Adjustment (AL14)								-	-	-	-
A2.13.1.2.4.14. Laser to FLIR (AL15)	*							2b	-	-	-
A2.13.1.2.4.15. Stow Servos (AL16)								-	-	-	-
A2.13.1.2.4.16. Roll Brake Release (AL17)								-	-	-	-
A2.13.1.2.4.17. Nose Processor Bias Transfer (AL18)								-	-	-	-
A2.13.1.2.4.18. Fetch Pod Bias Data (AL19)								-	-	-	-
A2.13.1.2.4.19. TAF FLIR Test (AL20)								-	-	-	-
A2.13.1.2.4.20. Pod Mode Control (AL21)								-	-	-	-
A2.13.1.2.4.21. TAF Centration	*							-	-	-	-

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.13.1.2.4.22. Slider Adjustment								-	-	-	-
A2.13.1.2.5. Remove and Install											
A2.13.1.2.5.1. Nose Equipment Support Assembly (NESA)	*							-	-	-	-
A2.13.1.2.5.2. Roll Section Assembly	*							-	-	-	-
A2.13.1.2.5.3. Targeting Set Computer (TSC)								-	-	-	-
A2.13.1.2.5.4. Central Electronics Unit (CEU)								2b	-	-	-
A2.13.1.2.5.5. Power Supply (TSPS)								-	-	-	-
A2.13.1.2.5.6. Environmental Control Unit (ECU)	*							-	-	-	-
A2.13.1.2.6. Service											
A2.13.1.2.6.1. Coolant Loop	*							-	-	-	-
A2.13.1.2.6.2. Desiccant (NESA)								-	-	-	-
A2.13.1.2.7. Nose Equipment Support Assembly (NESA) TR: T.O. 11F1-AAQ14-2											
A2.13.1.2.7.1. Description								A	A	-	-
A2.13.1.2.7.2. Theory of Operation											
A2.13.1.2.7.2.1. Laser								A	B	-	-
A2.13.1.2.7.2.2. Servo Loops								A	B	-	-
A2.13.1.2.7.3. Remove and Install SRUs											
A2.13.1.2.7.3.1. Laser	*							2b	-	-	-
A2.13.1.2.7.3.2. Coolant Loop								-	-	-	-
A2.13.1.2.7.3.3. Optical Relay Assembly								-	-	-	-
A2.13.1.2.7.3.4. CCAs/ECAs								-	-	-	-
A2.13.1.2.8. Roll Section Assembly TR: T.O. 11F1-AAQ14-2											
A2.13.1.2.8.1. Description								-	A	-	-
A2.13.1.2.8.2. Theory of Operation											

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.13.1.2.8.2.1. Target Acquisition FLIR (TAF)								-	B	-	-
A2.13.1.2.8.2.2. Servo Loops								-	B	-	-
A2.13.1.2.8.3. Remove and Install SRUs											
A2.13.1.2.8.3.1. Target Acquisition FLIR (TAF)	*							2b	-	-	-
A2.13.1.2.8.3.2. Cooler/Detector	*							-	-	-	-
A2.13.1.2.8.3.3. CCAs								-	-	-	-
A2.13.1.2.8.3.4. Matched Scanner Set								-	-	-	-
A2.13.1.2.8.3.5. Slip Ring Assembly	*							-	-	-	-
A2.13.1.2.8.3.6. Repair								-	-	-	-
A2.13.1.2.9. Remove and Install Center Section SRUs TR: T.O. 11F1-AAQ14-2								-	-	-	-
A2.13.1.2.10. Targeting Set Computer (TSC) TR: T.O.s 11F1-AAQ14-8-1, 11F1-AAQ14-2											
A2.13.1.2.10.1. Description								-	A	-	-
A2.13.1.2.10.2. Theory of Operation								-	B	-	-
A2.13.1.2.10.3. Run Functional Test								-	-	-	-
A2.13.1.2.10.4. Load Operational Flight Program (OFP)								-	-	-	-
A2.13.1.2.10.5. Remove and Install SRUs								-	-	-	-
A2.13.1.2.11. Central Electronics Unit (CEU) TR: T.O.s 11F1-AAQ14-2, 11F1-AAQ14-8-2											
A2.13.1.2.11.1. Description								-	A	-	-
A2.13.1.2.11.2. Theory of Operation								-	B	-	-
A2.13.1.2.11.3. Run Functional Test								-	-	-	-
A2.13.1.2.11.4. Remove and Install SRUs								-	-	-	-
A2.13.1.2.12. Power Supply (TSPS) TR: T.O. 11F1-AAQ14-2											
A2.13.1.2.12.1. Description								-	A	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.13.1.2.12.2. Theory of Operation								-	B	-	-
A2.13.1.2.12.3. Run Functional Test	*							-	-	-	-
A2.13.1.2.12.4. High Voltage Power Supply Functional Test								-	-	-	-
A2.13.1.2.12.5. Remove and Install SRUs								-	-	-	-
A2.13.1.2.13. Environmental Control Unit (ECU) TR: T.O. 11F1-AAQ14-2											
A2.13.1.2.13.1. Description								-	A	-	-
A2.13.1.2.13.2. Theory of Operation								-	B	-	-
A2.13.1.2.13.3. Run Functional Test	*							-	-	-	-
A2.13.1.2.13.4. Remove and Install SRUs								-	-	-	-
A2.13.1.2.13.5. Repair								-	-	-	-
A2.13.1.2.13.6. Service											
A2.13.1.2.13.6.1. Coolant								-	-	-	-
A2.13.1.2.13.6.2. Freon								2b	-	-	-
A2.13.2. Pave Penny, AAS-35 TR: T.O.s 11F5O-4-2-2, 11F13-32-2-2, 11F3-6-2-2											
A2.13.2.1. Description								A	A	-	-
A2.13.2.2. Theory of Operation								B	B	-	-
A2.13.2.3. Laser Illuminated Target Detector											
A2.13.2.3.1. Theory of Operation								B	B	-	-
A2.13.2.3.2. Perform Functional Checkout	*							2b	-	-	-
A2.13.2.3.3. Perform Alignments	*							2b	-	-	-
A2.13.2.3.4. Remove and Install Gimbal	*							-	-	-	-
A2.13.2.3.5. Remove and Install Other SRUs								-	-	-	-
A2.13.2.3.6. Repair								-	-	-	-
A2.13.2.3.7. Service								-	-	-	-

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.13.2.4. Adapter Control Detector (ACD) TR: T.O. 11F3-6-2-2											
A2.13.2.4.1. Theory of Operation								B	B	-	-
A2.13.2.4.2. Perform Functional Checkout	*							2b	-	-	-
A2.13.2.4.3. Perform Alignments	*							2b	-	-	-
A2.13.2.4.4. Remove and Install SRUs								-	-	-	-
A2.13.2.5. Control, Target Identification Set Laser (TISL) TR: T.O. 11F13-32-2-2											
A2.13.2.5.1. Theory of Operation								B	B	-	-
A2.13.2.5.2. Perform Functional Checkout	*							2b	-	-	-
A2.13.2.5.3. Perform Alignments								-	-	-	-
A2.13.2.5.4. Remove and Install SRUs								-	-	-	-
A2.13.3. Cockpit TV Sensor (CTVS) System TR: T.O.s 12S6-2AXQ16-2											
A2.13.3.1. Description								A	A	-	-
A2.13.3.2. Theory of Operation								B	B	-	-
A2.13.3.3. Perform Functional Checkout								2b	-	-	-
A2.13.3.4. Perform Adjustments								2b	-	-	-
A2.13.3.5. Remove and Install SRUs								-	-	-	-
A2.13.4. Optical Bar Camera (OBC) TR: SY-OBC-1, SY-OBC-2 Vol. 1 & 2											
A2.13.4.1. Description								A	A	-	-
A2.13.4.2. Theory of Operation								B	B	-	-
A2.13.4.3. Upload/Download Film								-	-	-	-
A2.13.4.4. Use Test and Checkout Console											
A2.13.4.4.1. Perform Preflight Checkout	*							-	-	-	-
A2.13.4.4.2. Perform Postflight Checkout	*							-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.13.4.5. Perform "Long Functional" Operational Checkout								-	-	-	-
A2.13.4.6. Remove and Install SRUs								-	-	-	-
A2.13.4.7. Perform Scheduled Inspections								-	-	-	-
A2.13.4.8. Download Air Taps Data								-	-	-	-
A2.13.5. Mark II Drift Sight System TR: SP-0009/2-1/0											
A2.13.5.1. Description								A	A	-	-
A2.13.5.2. Theory of Operation								B	B	-	-
A2.13.5.3. Perform Operational Checkout								-	-	-	-
A2.13.5.4. Remove and Install SRUs								-	-	-	-
A2.13.6. Mark IV Hand Control TR: SP-0009/2-1/0											
A2.13.6.1. Description								A	A	-	-
A2.13.6.2. Theory of Operation								B	B	-	-
A2.13.6.3. Perform Operational Checkout								-	-	-	-
A2.13.6.4. Perform/Verify Adjustment											
A2.13.6.4.1. Resolver								-	-	-	-
A2.13.6.4.2. Synchro								-	-	-	-
A2.13.6.5. Remove/Install SRUs								-	-	-	-
A2.13.7. Infrared Acquisition/Designation System (IRADS) TR: TMs 94-70-11-1-1, -2A, -3, -4, -5, -6											
A2.13.7.1. Description								A	A	-	-
A2.13.7.2. Theory of Operation								B	B	-	-
A2.13.7.3. Turrets TR: TM 94-70-11-1-1, -2A											
A2.13.7.3.1. Perform Minimum Performance Test	*							-	-	-	-
A2.13.7.3.2. Perform Alignments											

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.13.7.3.2.1. Laser	*							-	-	-	-
A2.13.7.3.2.2. Servo/Gimbal	*							-	-	-	-
A2.13.7.3.2.3. Video Chain	*							-	-	-	-
A2.13.7.3.2.4. Disassemble/Reassemble								-	-	-	-
A2.13.7.3.2.5. Repair								-	-	-	-
A2.13.7.3.2.6. Clean AZ Bearings	*							-	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
ATTACHMENT 3											
NOTE 1: This attachment identifies the Air Force standardized STS electronic fundamentals and applications STS entries.											
NOTE 2: All course requirements are trained in the 3-level resident wartime course.											
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.											
NOTE 4: Items marked in columns 2a or 2b marked with a "*R" are optional core tasks for ANG and AFRC.											
NOTE 5: Proficiency codes with parentheses indicate that training is provided within the specialty course, not the Electronic Principles course											
A3.1. **ELECTRONICS SUPPORT SUBJECTS**											
A3.1.1. Safety TR: T.O. 31-1-141-1								B	-	-	-
A3.1.2. First Aid TR: AFPAM 36-2241, Vol. 1								B	-	-	-
A3.1.3. Electrostatic Discharge (ESD) Control TR: T.O. 00-25-234								B	-	-	-
A3.1.4. Electromagnetic Effects (EMP/EMI) TR: T.O.s 31-1-141-12, -13								B	-	-	-
A3.1.5. Metric Notation TR: T.O 31-1-141-5											
A3.1.5.1. Powers of Ten								B	-	-	-
A3.1.5.2. Electrical Prefixes								B	-	-	-
A3.2. **USE TEST EQUIPMENT** TR: Applicable equipment T.O.(s)/ manual(s)											
A3.2.1. Analog Multimeter								2b	-	-	-
A3.2.2. Digital Multimeter								2b	-	-	-
A3.2.3. Oscilloscope								2b	b	-	-
A3.2.4. Signal Generator								2b	-	-	-
A3.2.5. Frequency Counter								-	b	-	-
A3.2.6. RF Power Meter								-	b	-	-
A3.2.7. Phase Angle Voltmeter								-	-	-	-
A3.2.8. Time Domain Reflectometer (TDR)								-	-	-	-
A3.3. **BASIC CIRCUITS** TR: T.O. 31-1-141-2											

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.3.1. Direct Current (DC)											
A3.3.1.1. Terms								B	-	-	-
A3.3.1.2. Theory								B	-	-	-
A3.3.1.3. Calculations								B	-	-	-
A3.3.2. Alternating Current (AC)											
A3.3.2.1. Terms								B	-	-	-
A3.3.2.2. Calculations								B	-	-	-
A3.4. **BASIC CIRCUIT COMPONENTS**											
A3.4.1. Resistors TR: T.O.s 31-141-1-2, -15											
A3.4.1.1. Theory								B	-	-	-
A3.4.1.2. Color Code								B	-	-	-
A3.4.1.3. Troubleshoot								2b	-	-	-
A3.4.2. Inductors TR: T.O.s 31-1-141-2, -8, -15											
A3.4.2.1. Theory								B	-	-	-
A3.4.2.2. Troubleshoot								2b	-	-	-
A3.4.3. Capacitors TR: T.O.s 31-1-141-2, -8, -1											
A3.4.3.1. Theory								B	-	-	-
A3.4.3.2. Troubleshoot								2b	-	-	-
A3.4.4. Resistive/Capacitive/Inductive (RCL) Circuits Theory TR: T.O. 31-1-141-2											
A3.4.4.1. Basic								B	-	-	-
A3.4.4.2. Resonant								B	-	-	-
A3.4.4.3. Frequency-Sensitive Filter								B	-	-	-
A3.5. **ELECTROMAGNETIC DEVICES**											

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.5.1. Transformers TR: T.O.s 31-1-141-2, -3, -13, -15											
A3.5.1.1. Theory								B	-	-	-
A3.5.1.2. Troubleshoot								2b	-	-	-
A3.5.2. Relays and Solenoids TR: T.O. 31-1-141-3											
A3.5.2.1. Theory								B	-	-	-
A3.5.2.2. Troubleshoot Relays								2b	-	-	-
A3.5.3. Motor Theory TR: T.O. 31-1-141-9											
A3.5.3.1. Direct Current (DC)								B	-	-	-
A3.5.3.2. Alternating Current (AC)								B	-	-	-
A3.5.4. Generator Theory TR: T.O.s 31-1-141-9, -13											
A3.5.4.1. Direct Current (DC)								B	-	-	-
A3.5.4.2. Alternating Current (AC)								B	-	-	-
A3.5.5. Synchro/Servo TR: T.O. 31-1-141-9											
A3.5.5.1. Theory								B	B	-	-
A3.5.5.2. Fault Isolation								b	-	-	-
A3.5.6. Transducer Theory								B	-	-	-
A3.6. **SOLID STATE DEVICES**											
A3.6.1. Diodes TR: T.O. 31-1-141-4											
A3.6.1.1. Theory								B	-	-	-
A3.6.1.2. Troubleshoot								2b	-	-	-
A3.6.2. Bipolar Junction Transistors TR: T.O. 31-1-141-4											
A3.6.2.1. Theory								B	-	-	-
A3.6.2.2. Troubleshoot								2b	-	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.6.3. Special Purpose Device Theory											
A3.6.3.1. Zener Diode TR: T.O. 31-1-141-4								B	-	-	-
A3.6.3.2. Light-Emitting Diode (LED) TR:								B	-	-	-
A3.6.3.3. Liquid-Crystal Display (LCD) TR:								B	-	-	-
A3.6.3.4. Integrated Circuits (IC) TR:								B	-	-	-
A3.6.3.5. Metal-Oxide Semiconductor Field Effect Transistor (MOSFET) TR:								B	-	-	-
A3.6.3.6. Operational Amplifiers TR:								B	-	-	-
A3.6.3.7. Charge-Coupled Device (CCD) Theory TR:								-	B	-	-
A3.7. **TRANSISTOR AMPLIFIER CIRCUITS** TR: T.O.s 31-1-141-1, 31-1-141-4											
A3.7.1. Theory								B	-	-	-
A3.7.2. Stabilization								B	-	-	-
A3.7.3. Coupling								B	-	-	-
A3.7.4. Troubleshooting								2b	-	-	-
A3.8. **POWER SUPPLY CIRCUITS** TR: T.O. 31-1-141-3											
A3.8.1. Theory											
A3.8.1.1. Rectifiers								B	-	-	-
A3.8.1.2. Filters								B	-	-	-
A3.8.1.3. Voltage Regulators								B	-	-	-
A3.8.2. Troubleshoot								2b	-	-	-
A3.9. **WAVE-GENERATING CIRCUITS** TR: T.O. 31-1-141-3											
A3.9.1. Theory											

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.9.1.1. Oscillators								B	-	-	-
A3.9.1.2. Multivibrators								B	-	-	-
A3.9.1.3. Wave-Shaping Circuits								B	-	-	-
A3.9.2. Fault Isolate								2b	-	-	-
A3.10. **DIGITAL NUMBERING SYSTEMS** TR: T.O. 31-1-141-5											
A3.10.1. Conversions											
A3.10.1.1. Binary								B	-	-	-
A3.10.1.2. Octal								B	-	-	-
A3.10.1.3. Hexadecimal								B	-	-	-
A3.10.1.4. Binary-Coded Decimal								B	-	-	-
A3.10.2. Binary Math Operations								B	-	-	-
A3.11. **DIGITAL LOGIC CIRCUITS** TR: T.O.s 31-1-141-3, -4, -9											
A3.11.1. Theory											
A3.11.1.1. Gates								B	-	-	-
A3.11.1.2. Flip-Flops								B	-	-	-
A3.11.1.3. Counters								B	-	-	-
A3.11.1.4. Registers								B	-	-	-
A3.11.1.5. Combinational Logic Circuits								B	-	-	-
A3.11.2. Troubleshoot								2b	-	-	-
A3.11.3. Digital-to-Analog (DA) and Analog-to-Digital (AD) Convertors Theory TR: T.O. 31-1-141-13								B	-	-	-
A3.12. **BASIC COMPUTER FUNDAMENTALS** TR: T.O. 31-1-141-6, USAF CBT System (http://214.3.105.136/default.asp)											
A3.12.1. Computer Theory											
A3.12.1.1. Operation Principles								-	B	-	-

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.12.1.2. Hardware								B	B	-	A
A3.12.1.3. Software											
A3.12.1.3.1. Operating Systems								B	-	-	A
A3.12.1.3.2. Virus Protection								B	-	-	-
A3.12.1.3.3. Diagnostics								B	-	-	-
A3.12.1.3.4. Applications								B	-	-	A
A3.12.1.4. Peripherals								B	B	-	-
A3.12.2. Network Theory											
A3.12.2.1. Components								B	-	-	-
A3.12.2.2. Types								B	-	-	A
A3.12.2.3. Topologies								B	-	-	-
A3.12.2.4. Communication Mediums								B	-	-	-
A3.13. **BASIC COMMUNICATIONS THEORY**											
A3.13.1. Antenna TR: T.O. 31-1-141-12								B	-	-	-
A3.13.2. Transmission Lines TR: T.O. 31-1-141-11								B	-	-	-
A3.13.3. Waveguides TR: T.O. 31-1-141-11								B	-	-	-
A3.13.4. Transmitters TR: T.O.s 31-1-141-3, -9											
A3.13.4.1. Amplitude Modulation (AM)								B	-	-	-
A3.14.4.2. Frequency Modulation (FM)								B	-	-	-
A3.14.5. Receivers TR: T.O.s 31-1-141-3, -9											
A3.14.5.1. Amplitude Modulation (AM)								B	-	-	-
A3.14.5.2. Frequency Modulation (FM)								B	-	-	-
A3.14. **SOLDER AND DESOLDER** TR: T.O. 00-25-234											

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	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.14.1. Terminal Connection								2b	-	-	-
A3.14.2. Printed Circuit Board (PCB)								2b	-	-	-
A3.14.3. Multipin Connector								2b	-	-	-
A3.14.4. Coaxial Connector								2b	-	-	-
A3.15. **ASSEMBLE SOLDERLESS CONNECTORS** TR: T.O. 1-1A-14											
A3.15.1. Crimped Connection								2b	-	-	-
A3.15.2. Coaxial Connector								2b	-	-	-
A3.15.3. Multipin Connector								2b	-	-	-

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 that he/she knows what is expected of him/her 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 (e.g., TOs, type of equipment, etc). The behavior is the observable portion of the objective (e.g., 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's measured. All objectives use the 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 80%, 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(1) or 4C(1) of the STS 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 (2A0X1C), 365 TRS/TRR, 609 9th Avenue, Sheppard AFB TX, 76311-2335 or by e-mail (gene.strouth@sheppard.af.mil).

SECTION C - OJT SUPPORT MATERIAL

8. This section provides a list of OJT support packages. NOTE: AFIND 8 lists all qualification training packages (QTP). Though the following list of QTPs is not inclusive, it covers the subject areas most applicable to AFSC 2A0X1C. Courses can be downloaded from 81 TRSS home page at the following URL: https://wwwmil.keesler.af.mil/81trss/qflight/welcome.html. For further information on the following courses, contact the OPR at: 81 TRSS/TSQS, 601 D Street, Keesler AFB MS 39534-2229, DSN 597-3343.

Course Number	Course Title	Developer
AFQTP00000-200A	Intro to Command, Control, and Comm Protection	81 TRSS
AFQTP2EXXX-201L	Communications-Electronics (C-E) Work Center Manager's Handbook	81 TRSS
AFQTP2EXXX-201LB	Communications-Electronic (C-E) Manager's Handbook	81 TRSS
AFQTP2EXXX-202A	Electrostatic Discharge Handbook	81 TRSS
AFQTP3C0X1-211RA	Computer Security Manager's Handbook	81 TRSS
AFQTP542X2-214B	Electronic and Logic Circuitry	81 TRSS

SECTION D - TRAINING COURSE INDEX

9. Purpose. This section identifies training (mandatory/optional) courses available to the Avionic Sensor Systems specialty, and it shows how the courses are used by each MAJCOM in their career field training programs. For further information on the following courses, contact the 2A0X1C Training Manager at: 365 TRS/TRR, 609 9th Avenue, Sheppard AFB TX 76311-2335, DSN 736-7908.

10. Air Force In-Resident Courses:

Refer to the *Air Force Education and Training Course Announcements (ETCA)* located at the following URL: https://etca.randolph.af.mil, for information on all courses listed in this index.

COURSE NO.	COURSE TITLE	OPR	USER
J3ABR2A031C 000	Avionic Sensor Systems Apprentice Training	365 TRS	AF, ANG, AFRC, FMS
J3ACR2A071C 000	Avionic Sensor Systems Craftsman Training	365 TRS	AF, ANG, AFRC
J3AQR2A031C 000	Pathfinder/Sharpshooter FMS Prerequisite Training	365 TRS	FMS
J3AQR2A031C 001	LANTIRN FMS Prerequisite Training	365 TRS	FMS
J3AZR2A071C 000	LANTIRN Support Equipment Advanced Maintenance Training	365 TRS	AF, ANG
J3AZR2A071C 001	LANTIRN Targeting Set Advanced Maintenance Training	365 TRS	AF, ANG

11. Air Force Institute for Advanced Distributed Learning (AFIADL) Courses:

For further information on the following career development courses (CDC), contact the course manager at: 365 TRS/TTAD, 609 9th Avenue, Sheppard AFB TX 76311-2335, DSN 736-3287 or refer to the AFIADL URL: http://www.maxwell.af.mil/au/afiadl/.

COURSE NO.	COURSE TITLE	USER
CDC 2A051C	Avionic Sensor Systems Journeyman	AF
CDC 2AX7X	Aerospace Maintenance Craftsman	AF

12. Exportable Courses:

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

367 TRSS/TSIMD
6058 Aspen Avenue
Hill AFB UT 84056-5805
DSN 777-2555

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

The 367 TRS course catalog can be ordered by phone, DSN 777-0160/7830, or viewed on-line at http://www.hill.af.mil/367TRSS/findex.htm. The 82 TRSS course catalog (including 362 TRS courses) can be viewed on-line at https://webi.sheppard.af.mil/82trg/82trss/ttc/default.htm.

COURSE NO.	COURSE TITLE	OPR	USER
C5AKM00TIV0001	Troubleshooting Techniques (CD-ROM IMI)	367 TRS	AF
A6ANU00TCB0000	FOD Prevention (VHS tape or CD-ROM IMI)	367 TRS	AF
C5AKM00TVT0001	Safety and Radio Frequency Radiation (VHS tape)	367 TRS	AF
C5AKM00TVT0011	Cold Weather Safety (VHS tape)	367 TRS	AF
Z6AGM00TCB0002	Multimeter Familiarization (CD-ROM IMI)	367 TRS	AF
Z6AKM00QIV0009	Torque Wrench Familiarization	367 TRS	AF
J6AZU00066 043	CAMS for Flightline & Backshop	362 TRS	AF

13. The United States Air Force Computer Based Training System

The mission of the USAF CBT System is to provide the tools to keep Air Force personnel skilled in the technology they use in carrying out their missions by providing information technology training anytime, anywhere to the users' desktops. CBT is primarily an on-the-job training (OJT) resource, and it should be used by the workcenter supervisor to enhance the scope/quality of training already available, to reduce training costs, and to provide training options not otherwise available. The number of available courses are too numerous to list here. Course catalogs may be viewed on the following URL: https://www.afca.scott.af.mil/cbt/index.htm

•**USAF CBT System AFCA Home Page** (http://214.3.105.136/default.asp)

This site serves as a forum for CBT users. It contains information related to the USAF CBT System, including their authorized user and course library distribution policies. Their goal for this site is to

provide current information about the USAF CBT System to AF users. They plan to create AF newsletters for posting to this site. Please keep checking this page for future developments!

•**USAF CBT System Management**

The AFCA Training Management Branch (AFCA/XPFT) is the Program Management Office for the USAF CBT System. AFCA/XPFT stands ready to provide assistance with USAF CBT System questions. They may be contacted at HQ AFCA/XPFT, afca-xpft@scott.af.mil, (618) 256-2570, DSN 576-2570 .

14. Training Detachment (TD) Courses:

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

372 TRS/TXFI
912 I Ave. Suite 4
Sheppard AFB, TX 76311-2362
DSN 736-4424

373 TRS/TXFI
912 I Ave. Suite 4
Sheppard AFB, TX 76311-2362
DSN 736-4424

COURSE NO.	COURSE TITLE	OPR	USER
TBD	TBD (Pave Penny)	372 TRS	AF

15. Course Under Development/Revision:

Currently, both resident and non-resident training courses are in development. The new apprentice training course, J3ABR2A031C 000, Avionic Sensor Systems Apprentice Training, is scheduled to be complete and operational by 23 January, 2003. The new craftsman training course, J3ACR2A071C 000, Avionic Sensor Systems Craftsman Training, is scheduled to be complete and operational by 3 February, 2003. The new CDC 2A051C, Avionic Sensor Systems Journeyman Training, is in production and shall be complete and fielded in 1 April, 2003.

SECTION E – MAJCOM-UNIQUE REQUIREMENTS

16. Currently, only Combatant Air Forces (CAF) has a mandatory course list (MCL), CAFMCL. MAJCOMs change mandatory course requirements occasionally. Up-to-date CAF requirements can be obtained at URL https://lg.acc.af.mil/lgq/lgqt/NEWLGQTHOME.htm. Refer to the CAFMCL for additional information. As of the CAFMCL, at the date of publication, 23 Apr 02, there are no mandatory course requirements for this AFSC.

17. Additional courses available from ACC.

Contact the ACC Logistics Readiness Training Center (LTRC) course OPRs at URL http://www.hill.af.mil/acc/contents.ssi or the following address and phone numbers: ACC PMS/OL-CA, 6058 Aspen Avenue, Hill AFB UT 84056-5805, DSN 777-5108, Fax (DSN) 777-4278.

COURSE NO.	COURSE TITLE
Y140009	ACC Production Superintendent
Y140015	ACC Maintenance Instructor
Y140020	ACC Maintenance Training Management
Y140021	ACC Instructional Systems Designer