

DEPARTMENT OF THE AIR FORCE  
Headquarters US Air Force  
Washington, DC 20330-1030

CFETP 2A3X1  
Parts I and II  
July 2001

# **AFSC 2A3X1**

## **A-10/F-15/U-2 AVIONIC SYSTEMS**



## **CAREER FIELD EDUCATION AND TRAINING PLAN**



**CAREER FIELD EDUCATION AND TRAINING PLAN  
A-10/F-15/U-2 AVIONIC SYSTEMS  
AFSC 2A3X1**

**Table of Contents**

<b>PART I</b>	<u>Page Number</u>
Preface .....	2
Abbreviations/Terms Explained.....	3
Section A, General Information .....	5
Purpose of the CFETP .....	5
Use of the CFETP .....	5
Coordination and Approval .....	6
Section B, Career Field Progression and Information.....	6
Specialty Descriptions .....	6
2A331/51 .....	6
2A371 .....	6
2A390 .....	7
Skill and Career Progression.....	7
Apprentice (3-level) .....	7
Journeyman (5-level) .....	7
Craftsman (7-level) .....	8
Superintendent/Chief Enlisted Manager (9-level/CEM) .....	8
Training Decisions.....	8
Community College of the Air Force Programs .....	9
Career Development Flow Charts.....	11
Section C, Skill Level Training Requirements.....	14
Purpose .....	14
Specialty Qualification Requirements .....	14
Apprentice (3-level) .....	14
Journeyman (5-level) .....	15
Craftsman (7-level) .....	15
Superintendent/Chief Enlisted Manager (9-level/CEM) .....	16
Section D, Resource Constraints.....	17
Purpose .....	17
Section E, Transitional Training Guide.....	18
<b>PART II</b>	
Section A, Specialty Training Standard (STS) .....	19
Section B, Course Objectives.....	89
Section C, Support Material .....	89
Section D, Training Course Index.....	93
Section E, MAJCOM Unique Requirements .....	95

Supersedes: CFETP 2A3X1, Oct 97

Certified by: HQ USAF/ILMM (SMSgt J. Mayle)  
Number of Printed Pages: 120  
OPR: 365 TRS/TRR (Mr. Rachocki)

**CAREER FIELD EDUCATION AND TRAINING PLAN  
A-10/F-15/U-2 AVIONIC SYSTEMS  
AFSC 2A3X1**

**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 the 2A3X1, A-10/F-15/U-2 Avionic Systems, specialty. The CFETP will provide personnel a clear career path to success and instills rigor in all aspects of career field training. Note: Civilians occupying associated positions will use Part II to support duty position qualification training.

**2.** The CFETP consists of two parts. Each part is used by supervisors to plan, manage, and control training within the career field.

**2.1. Part I** provides information necessary for overall management of the specialty:

**2.1.1. Section A** explains how everyone will use the plan.

**2.1.2. Section B** identifies career field progression information, duties and responsibilities, training strategies, and career field path.

**2.1.3. Section C** associates each level with specialty qualifications (knowledge, education, training, and other).

**2.1.4. Section D** indicates resource constraints. Some examples are funds, manpower, equipment, and facilities.

**2.1.5. Section E** identifies transition training guide requirements to support career field restructures or mergers, if applicable.

**2.2. Part II** includes the following:

**2.2.1. Section A** identifies the Specialty Training Standard (STS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, and wartime course/core task and correspondence course requirements.

**2.2.2. Section B** contains the course objective list/training standards; supervisors will use to determine if airmen have satisfied training requirements.

**2.2.3. Section C** identifies available support materials. An example is a Qualification Training Package (QTP) which may be developed to support proficiency training. These packages are indexed in AFIND8, Numerical Index of Specialized Educational Training Publications.

**2.2.4. Section D** identifies a training course index; supervisors can use to determine resources available to support training. Included here are both mandatory and optional courses.

**2.2.5. Section E** identifies MAJCOM unique training requirements supervisors can use to determine additional training required for the associated qualification needs.

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

**Air Force Job Qualification Standard (AFJQS):** A comprehensive task list that describes a particular job type or duty position. They are used by supervisors to document task qualifications. The tasks of 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.

**Continuation Training:** Additional training exceeding minimum upgrade requirements with emphasis on present or future duty assignments.

**Core Task:** Tasks that Air Force functional managers identify as minimum qualification requirements within an Air Force Specialty, regardless of duty position. Only a percentage of critical tasks for each system are listed as mandatory core tasks. This gives units needed flexibility to manage their workforce training. Core tasks identified with \*R are optional for ANG and AFRC.

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

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

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

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

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

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

**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 program occurs both during and after the upgrade training process. It is designed to provide the performance skill/knowledge training required to do the job.

**Qualification Training Package (QTP):** An instructional course 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, or 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 Air Education and Training Command (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.

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

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

**Utilization and Training Workshop (U&TW):** A forum of MAJCOM Air Force Specialty Code (AFSC) functional managers, Subject Matter Experts (SMEs), and AETC training personnel that determines career ladder training requirements.

## ***SECTION A - GENERAL INFORMATION***

**1. Purpose:** This CFETP provides the information necessary for Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective career field training program. This plan outlines the training that individuals in AFSC 2A3X1 should receive to develop and progress throughout their career. This CFETP identifies initial skill, upgrade, qualification, advanced, and proficiency training. Initial skills training is the AFS specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. This training is conducted by AETC at Sheppard AFB TX. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 3-, 5-, 7-, and 9-skill levels. Qualification training is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during, and after, the upgrade training process. It is designed to provide the performance skills/knowledge required to do the job. Advanced training is formal specialty training used for selected airmen. Proficiency training is additional training, either in-residence or exportable advanced training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade. The CFETP has several purposes, some are:

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

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

- 2.1.** AETC training personnel will develop/revise formal resident, non-resident, Training Detachment (TD), and exportable training based upon requirements established by the users and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining the resources needed to provide the identified training.
- 2.2.** MFMs will ensure their training programs complement the CFETP mandatory initial, upgrade, and proficiency requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable 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 2A3X1 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 Descriptions:**

**4.1. Specialty Summary (Apprentice - Craftsman):** Isolates malfunctions and repairs and inspects A-10/F-15/U-2 integrated avionic systems at the organizational level. Inspects, services and performs general aircraft handling procedures. Related DoD Occupational Subgroup: 198.

#### **4.1.1. Duties and Responsibilities:**

**4.1.1.1. Apprentice and Journeyman:** Maintains A-10/F-15/U-2 on-equipment avionic systems. Inspects, services, and performs general aircraft handling procedures. Operates avionic systems by using proper controls and displays to determine operational condition. Identifies avionic systems malfunctions. Interprets equipment operation characteristics to isolate malfunctions in systems such as attack control, instrument, flight control, communication, navigation, identification, and penetration aids. Traces data flow and wiring diagrams. Uses built-in test functions, electronic measuring equipment, support Aerospace Ground Equipment (AGE), and Support Equipment (SE). Removes and installs Line Replaceable Units (LRUs) and aligns systems. Boresights systems. Removes, installs, and performs operational checks of externally mounted avionic and electronic countermeasures equipment. Performs modifications. Maintains and posts entries on inspection and maintenance records. Records meter readings and other pertinent data on equipment maintenance data collection forms. Enters data into automated systems. Uses Core Automated Maintenance System (CAMS) and Computer Fault Reporting System (CFRS). Recommends methods to improve equipment performance and maintenance procedures. Adheres to published safety guidelines and training requirements. Handles, labels, and disposes of hazardous materials and waste according to environmental standards.

**4.1.1.2. Craftsman:** Inspects, analyzes, troubleshoots, and maintains aircraft avionic systems, associated components, subsystems, and test equipment. Advises on problems operating and maintaining aircraft avionic systems, associated electronic components, subsystems, and test equipment. Solves maintenance problems using wiring diagrams, schematic diagrams, and technical publications, by analyzing operating characteristics of electrical and environmental systems. Determines proper maintenance procedures to repair and return systems and components to maximum efficiency. Diagnosis malfunctions and recommends corrective actions. Checks installed and repaired components to ensure compliance with technical publications and directives. Evaluates requirements and prepares quality deficiency reports. Supervises and evaluates job performance and maintenance techniques used to interpret, operate, troubleshoot, remove, repair, service, overhaul, and install aircraft avionic systems and components. Provides training and task certification for skill level advancement. Ensures compliance with published safety guidelines. Ensures hazardous materials and waste are handled, stored, and disposed of according to environmental standards.

**4.2. Specialty Summary (Superintendent):** Manages maintenance activities engaged in planning, inspecting, repairing, and servicing tactical aircraft and support equipment (SE). Related DoD Occupational Subgroup: 600.

**4.2.1. Duties and Responsibilities:**

**4.2.1.1.** Plans and organizes tactical aircraft maintenance activities. Plans, organizes, and manages maintenance activities for repair of aircraft and associated SE. Responsible for maintenance planning and inspecting. Coordinates with supply, operations, and other support activities to improve procedures and resolve problems.

**4.2.1.2.** Directs tactical aircraft maintenance activities. Evaluates and directs processes used in inspecting, maintaining, and servicing aircraft, components, and SE. Prioritizes maintenance and repair functions. Supervises preparation of maintenance forms for aircraft repair, inspection, and parts replacement. Directs aircraft battle damage repair and crash recovery operations.

**4.2.1.3.** Inspects and evaluates aircraft maintenance activities. Inspects maintenance performed on tactical aircraft, systems, and components. Evaluates maintenance units to determine operational status and to provide assistance in solving maintenance, supply, and personnel problems. Interprets and discusses inspection findings, and recommends action to correct deficiencies.

**4.2.1.4.** Performs aircraft maintenance management functions. Resolves problems and interprets technical publications for inspecting, maintaining, and modifying aircraft and SE. Ensures submission of deficiency reports. Ensures funds and resources are projected to support maintenance effort, and are managed to optimize mission accomplishment. Ensures unit meets mobility requirements.

**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 is essential that everyone involved in training do their part to plan, develop, manage, and conduct an effective training program. The guidance provided in this part of the CFETP will ensure each individual receives viable training at appropriate points in their career.

**5.1. Apprentice (3-level):** Upon completion of initial skills training, a trainee will work with a trainer to enhance their knowledge and skills. They will utilize the Career Development Courses, Task Qualification Training, and available exportable courses for continued advancement. Once task certified, a trainee may perform the task unsupervised. Apprentices can be considered for appointment as unit trainers after completion of a formal trainer course.

**5.2. Journeyman (5-level):** Once upgraded to the 5-level, a journeyman will enter into continuation training to broaden their experience base. Journeymen may be assigned job positions such as quality assurance and various staff positions. Journeymen should complete available FTD courses and MAJCOM specific training. Individuals will attend the Airman Leadership School (ALS) after having 48 months in the Air Force. Journeymen will be considered for appointment as unit trainers after completion of a formal trainer course. Individuals will use their CDCs to prepare for promotion testing. They should also consider continuing their education toward a Community College of the Air Force (CCAF) degree. Time lines and requirements may vary for ANG and AFRC.

**5.3. Craftsman (7-level):** A 7-level can expect to fill various supervisory and management positions such as shift leader, element chief, flight/section chief, and task certifier. They can also

be assigned to work in staff positions. Craftsmen should take courses to obtain added knowledge on management of resources and personnel. Continued academic education through CCAF and higher degree programs is encouraged. In addition, when promoted to TSgt, individuals will complete the Noncommissioned Officer Academy.

**5.4. Superintendent (9-level/CEM):** A 9-level can be expected to fill positions such as flight NCOIC, production supervisor, and various staff NCOIC jobs. Additional training in the areas of budget, manpower, resources, and personnel management should be pursued through continuing education. Individuals promoted to SMSgt will complete the Senior Noncommissioned Officer Academy. Additional higher education and completion of courses outside their career AFSC are also highly encouraged.

**6. Training Decisions:** The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the A-10/F-15/U-2 Avionic Systems Career Field. 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 MAJCOM Functional Managers and Subject Matter Experts (SMEs) at the career field Utilization and Training Workshop held at Sheppard AFB, 12-16 Jul 99.

**6.1. Initial Skills:**

**6.1.1** The MAJCOM representatives decided that initial skills training will be accomplished via Mission Ready Airman (MRA) training. The new F-15/A-10/U-2 3-level MRA courses will come on line July 2001. A complete listing of the MRA tasks is in the STS portion of this CFETP. They are identified by the “3b” (“3” = Can do all parts of the task. Needs only a spot check of completed work and “b” = Can determine step by step procedures for doing the task) proficiency code in the 3-level column. The MRA program is designed to certify basic students at the “3b” level on selected aircraft specific tasks at the technical school so they will be productive immediately upon arrival at their first duty section.

**6.1.2.** Students with assignments to bases having F-15E model aircraft will complete both the J3ABR2A331A/B/C course and the F-15E supplemental course, J3AZR2A331A/B/C.

**6.2. Five-Level Upgrade Training:** The U&TW representatives were concerned about overburdening units with core task requirements and adjusted core tasks accordingly. The group decided that most core tasks for upgrade to the 5-level should center around LRU removal and replacement; and operational checkouts. Minor changes were made to the 5-level CDC. The new 5-level CDCs are expected to be on line in Oct 2001.

**6.3. Seven-Level Upgrade Training:** The 7-level in-residence course will remain a 10 academic day course. The 7-level CDCs will include a two-volume set of generic management CDCs (many aircraft maintenance career fields will complete this two-volume set). This management course is designed as a prerequisite for 7-level in-residence training.

**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 continuation training programs that ensure individuals in the avionic career field receive the necessary training at the appropriate point in their career. The training program should identify both mandatory and optional training requirements.

**6.4.1.** Once 3-levels complete all mandatory CDC and task qualification upgrade requirements for the assigned shred, supervisors may begin task training on other avionic systems. This should include qualification on tasks for the remaining shreds/systems as identified by the applicable MAJCOM/UNIT. Completion of these tasks is not required for award of the 5-level.

**6.4.2.** Individuals must begin avionics continuation training after award of the 5-level. At this point, they should also attend cross courses as available and voluntarily enroll for the other two CDC shreds.

**7. Community College of the Air Force (CCAF) Academic Programs:** Enrollment in CCAF occurs upon completion of basic military training. CCAF provides the opportunity to obtain an Associates 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. Prior to completing an associates degree, the 5-level must be awarded and the following requirements must be met:

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

**7.3.1. Technical Education (24 Semester Hours):** Until the MRA courses come on line in July 2001, completion of course(s) listed below satisfy the following semester hours (F-15 MRT hours) of the technical education requirement respectively. A minimum of 12 semester hours of Technical Core subject courses must be applied and the remaining semester hours are applied from Technical Core/Technical Elective courses.

	<u>Old CFETP</u>	<u>New CFETP</u>
F-15 A-shred semester hours	24	TBD
F-15 B-shred semester hours	29	TBD
F-15 C-shred semester hours	28	TBD
A-10 A-shred semester hours	TBD	TBD
A-10 B-shred semester hours	TBD	TBD
A-10 C-shred semester hours	TBD	TBD

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

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

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

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

**7.4. 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 is necessary for instructors to have at least an associate's degree so the technical school can maintain accreditation through the Southern Association of Colleges and Schools.

**8. Career Field Path:**  
**8.2. Enlisted Career Path:**

<b>Table A8.2. Enlisted Career Path</b>				
<b>Education and Training Requirements</b>	<b>GRADE REQUIREMENTS</b>			
	Rank	Average Sew-On	Earliest Sew-On	High Year Of Tenure (HYT)
<b>Basic Military Training school</b>				
<b>Apprentice Technical School</b> (3-Skill Level)	Amn A1C	6 months 16 months		
<b>Upgrade To Journeyman</b> (5-Skill Level) - Complete 3 months duty position/apprentice experience <b>before</b> beginning journeyman training. - Minimum 12 months on-the-job training. - Complete appropriate CDC if/when available. - Must complete 15 months training (3 month apprenticeship plus 12 months OJT) for award of the 5-skill level.	A1C SrA	16 months 3 years	28 months	10 Years
<b>Airman Leadership School (ALS)</b> - Must be a SrA with 48 months time in service or be a SSgt Selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).				
<b><u>Trainer</u></b> - Qualified and certified to perform the task to be trained. - Have attended the formal trainer's course and appointed in writing by Commander.	<b><u>Certifier</u></b> - Be at least a 5-skill level SSgt; and qualified and certified to perform the task being certified - Attend formal certifier course and appointed in writing by Commander. - Be a person other than the trainer.			
<b>Upgrade To Craftsman</b> (7-Skill Level) - Minimum rank of SSgt. - 18 months OJT. - Complete appropriate CDC if/when available. - Advanced Technical School.	SSgt	7.5 years	3 years	20 Years
<b>Noncommissioned Officer Academy</b> (NCOA) - Must be a TSgt or TSgt Selectee. - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt	12.5 years	5 years	22 Years
	MSgt	16 years	8 years	24 Years
<b>USAF Senior NCO Academy (SNCOA)</b> - Must be a SMSgt or SMSgt Selectee. - Resident graduation is a prerequisite for CMSgt sew-on (Active Duty Only).	SMSgt	19.2 years	11 years	26 Years
<b>Upgrade To Superintendent</b> (9-Skill Level) - Minimum rank of SMSgt. - Must be a resident graduate of SNCOA (Active Duty Only).	CMSgt	21.5 years	14 years	30 Years

**8.3. Base/Unit Education and Training Manager Checklist:**

<b>Table A8.3. Base/Unit Education and Training Manager Checklist</b>		
<b>Requirements for Upgrade to:</b>	<b>Y</b>	<b>N</b>
<p><b>Journeyman</b></p> <ul style="list-style-type: none"> <li>- Has the apprentice completed mandatory CDCs, if available? NOTE: Upgrade trainees will not be required to retake their respective shred 5-level CDC again to fulfill requirements.</li> <li>- Has the apprentice completed all appropriate shred 5-level core tasks identified in the CFETP?</li> <li>- Has the apprentice completed all other duty position tasks identified by the supervisor?</li> <li>- Has the apprentice completed 18 months training (3 month apprenticeship plus 15 months OJT) for award of the 5-skill level?               <ul style="list-style-type: none"> <li>-- Exception: Is the apprentice in retraining status (TSC 'F')? If yes, they must complete a minimum of 6 months UGT.</li> </ul> </li> <li>- Has the apprentice met mandatory requirements listed in specialty description, AFMAN 36-2108 (Airman Classification), and CFETP?</li> <li>- Has the apprentice been recommended by their supervisor?</li> </ul>		
<p><b>Craftsman</b></p> <ul style="list-style-type: none"> <li>- Has the journeyman achieved the rank of SSgt?</li> <li>- Has the journeyman completed mandatory CDCs? (other shreds; and 7-level Management, if available)</li> <li>- Has the journeyman completed all 5 and 7-level core tasks identified in the CFETP?</li> <li>- Has the journeyman completed all other duty position tasks identified by the supervisor?</li> <li>- Has the journeyman attended 7-skill level Craftsman Course (if available)? <b>First, they must complete:</b> <ul style="list-style-type: none"> <li>-- All 5 and 7-level training requirements listed in the CFETP.</li> <li>-- All applicable CDCs.</li> <li>-- A minimum of 12 months UGT (6 months for re-trainees).</li> </ul> </li> <li>- Has the journeyman completed a minimum 18 months UGT for award of the 7-skill level?               <ul style="list-style-type: none"> <li>-- Exception: Is the journeyman in retraining status (TSC 'G')? If yes, they must complete a minimum 12 months.</li> </ul> </li> </ul> <p><b>Special Note:</b> The 7-level FTD upgrade requirements for AFSC 2A3X1 were eliminated in the October 1994 CFETP. There are no Air Force mandatory FTDs for this AFSC. MAJCOMs and units may still require completion as necessary.</p>		

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

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

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Training Manager

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Supervisor

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

**9. Purpose:** Skill level training requirements in this career field are defined in terms of tasks and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in 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:** The various skill levels in this career field 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 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 task certification items identified in the STS of Part II. Individuals must be competent on all 3-level STS procedures and tasks, and need only a spot check of all completed work.

**10.1.1.1. Knowledge:** An apprentice must be able to use technical data, common hand tools, and special test equipment. Apprentices must be qualified to remove and install system LRUs, perform operational checks, troubleshoot very simple avionic systems to the fault identification level, use support equipment, trace simple system signal/data flow schematic diagrams, and document maintenance actions in the automated data system.

**10.1.1.2. Education:** For entry into this specialty, completion of high school with courses in basic electronics, mathematics, general science and physics is desirable.

**10.1.1.3. Training:** Training to the three-skill level will require completion of the initial skills courses which include Electronic Principles conducted at Lackland AFB and AFSC specific training conducted at Sheppard AFB TX.

**10.1.1.4. Experience:** There is no experience necessary for entry into AFSC 2A331.

### **10.1.1.5. Other:**

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

**10.1.1.5.2.** For award and retention of AFSC 2A331X, eligibility for a Secret security clearance according to AFI 31-501.

**10.1.2. Training Sources:** The initial skills courses will provide the required knowledge and qualification training. Training encompasses basic electronic principles, system theory and operation, system components and component removal and installation. Additionally, introduction to maintenance concepts, general flightline maintenance practices, use of technical publications, maintenance documentation, and support equipment are provided.

**10.1.3. Implementation:** Upon graduation from Basic Military Training, airmen will attend course L3AQR40020 090, Electronic Principles. Completion of electronic principles and one of the following nine courses will result in award of the 3-level: J3ABR2A331A 002/3, F-15 (MRA) Avionic Attack Control Systems Apprentice; J3ABR2A331B 002/3, F-15 (MRA) Avionic Instrument and Flight Control Systems Apprentice; or J3ABR2A331C 002/3, F-15 (MRA) Avionic Communication, Navigation, and Penetration Aids Systems Apprentice,

J3ABR2A331A 004, A-10 (MRA) Avionic Attack Control Systems Apprentice; J3ABR2A331B 004, A-10 (MRA) Avionic Instrument and Flight Control Systems Apprentice; or J3ABR2A331C 004, A-10 Avionic Communication, Navigation, and Penetration Aids Systems Apprentice. Airmen assigned to units with F-15E aircraft will attend course J3AZR2A331A, B, or C 002 prior to departure to their new assignment.

## **10.2. Journeyman Level Training:**

**10.2.1. Specialty Qualification:** In addition to the 3-level qualifications, a 5-level must possess the knowledge and skills necessary to maintain avionic systems.

**10.2.1.1. Knowledge:** A 5-level must be qualified on inspecting aircraft avionic systems, removal and installation of LRUs, correcting malfunctions, performing operational checks and Built In Tests (BITs), and the use and care of support equipment. They must also be able to handle, label, and dispose of hazardous materials and waste according to environmental standards.

**10.2.1.2. Education:** There are no additional education requirements beyond those defined for the apprentice level.

**10.2.1.3. Training:** Requirements for the Journeyman level require completion of the 5-level CDC and completion of the core tasks specified in the STS.

**10.2.1.4. Experience:** Qualification in and possession of AFSC 2A331X. Also, experience in functions such as isolating malfunctions, installing line replaceable units, and using AGE necessary to maintain avionic systems.

### **10.2.1.5. Other:**

**10.2.1.5.1.** Normal color vision as defined in AFI 48-123 is mandatory.

**10.2.1.5.2.** For award and retention of AFSC 2A351X, eligibility for a Secret security clearance according to AFI 31-501.

**10.2.2. Training Sources:** The 5-level CDC provides the career knowledge training required. Qualification training and OJT will provide training and qualification on the 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 and CDCs. Upgrade to the 5-level requires completion of the basic 2A351 and appropriate CDCs and all core tasks. Emphasis must be placed on avionic system core tasks and continuation training in all avionic shreds prior to any Cross Utilization Training (CUT) in other aircraft related tasks.

## **10.3. Craftsman Level Training:**

**10.3.1. Specialty Qualification:** In addition to the 5-level qualifications, an individual must possess advanced skills and knowledge in theory, concepts, principles and application of avionic systems.

**10.3.1.1. Knowledge:** Knowledge in electronic, microelectronic, gyro, synchro, mechanical, and indicator principles, theory, and application is mandatory. Other knowledge includes, factors involved in transmitting and receiving within the radio frequency and radar frequency ranges; digital computer logic; using and interpreting test and measurement devices; principles of aerodynamics and motion, and power transmission by mechanical and electronic means;

electronic combat principles; and concepts and application of maintenance directives. The 7-level must be able to supervise and train personnel to maintain avionic systems. They must be able to plan, schedule, and organize maintenance to ensure effective utilization of available resources. Qualification is required on advanced repair, inspection, troubleshooting, and diagnostic techniques. Historical documentation analysis is also required for all 7-levels.

**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 the 2 volume 7-level Management CDC and the resident 7-level course, J3ACR2A371 002, at Sheppard AFB TX is mandatory for upgrade to AFSC 2A371.

**10.3.1.4. Experience:** Qualification in and possession of AFSC 2A351X. Also, experience performing or supervising functions such as installing, maintaining, or inspecting A-10, F-15, or U-2 avionic systems.

**10.3.1.5. Other:**

**10.3.1.5.1.** Normal color vision as defined in AFI 48-123 is mandatory.

**10.3.1.5.2.** For award and retention of AFSC 2A371, eligibility for a Secret security clearance according to AFI 31-501.

**10.3.2. Training Sources:** Seven-level upgrade training will be conducted by certified trainers using AF core tasks, unit/MAJCOM specific courses, and the formal 7-level course, J3ACR2A371 002. The 7-level CDC and resident courses are written to provide advanced, management and supervisory knowledge, and troubleshooting skills.

**10.3.3. Implementation:** Clarification: Upgrade to the 7-level will require completion of all 5 and 7-level core tasks, all 5-level CDCs, 12 months OJT as a SSgt selectee, and completion of the 7-level Craftsman Course. Completion of AF core tasks, 7-level Management CDC, and 12 months OJT as a SSgt selectee (6 months for a retrainee) will be completed before attending the resident course.

**10.4. Superintendent Level Training:**

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

**10.4.1.1. Knowledge:** Knowledge in electrical and mechanical principles applying to aircraft and SE; concepts and application of maintenance directives; maintenance data reporting; interpreting and use of maintenance data reports and technical orders; Air Force supply procedures; resource management; and proper handling, use, and disposal of hazardous waste and materials is mandatory.

**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 2A390, completion of Senior NCO Academy, in residence, and promotion to SMSgt is mandatory.

**10.4.1.4. Experience:** For award of AFSC 2A390, qualification in and possession of AFSC 2A371, 2A372, or 2A373X is mandatory. Also experience is mandatory in managing or directing repair functions such as inspecting and maintaining aircraft and SE.

**10.4.1.5. Other:** There are no other Specialty Qualification requirements defined in AFMAN 36-2108.

**10.4.2. Training Sources:** 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. Guard and Reserve 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, including information such as cost and manpower. 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 Constraints:**

**12.1. Constraint:** Technical school, aircraft and trainer configurations do not support all of the identified STS apprentice level course objectives.

**12.1.1. Impact:** 2A331A/B/C students will receive limited task training due to lack of properly configured operational aircraft and trainers. Items will not be certified, increasing the OJT burden on units.

**12.1.2. Resources Required:** Two F-15 non-MSIP, one F-15 MSIP aircraft, and two properly configured F-15 A-D Avionics Maintenance Trainers (AMTs). One A-10 with updated avionic suites.

**12.1.3. Action Required:** Procure necessary aircraft and trainers to support course training objectives. (OPR: 365 TRS)

**12.2. Constraint:** 365 TRS requires increased manpower authorizations for the new A-10 MRT courses.

**12.2.1. Impact:** The Merger of AFSC's requires creation of three new group paced A-10 avionic courses. A-shop is estimated to be 49 in length, B-shop is estimated to be 65 in length, and C-shop is estimated to be 71 in length. The Trained Personnel Requirement (TPR) class load will not be able to be taught without an increase in manpower authorizations.

**12.2.2. Resources Required:** The manpower estimate for the revised courses is 17 student man-years and 9 instructors. The A-10 numbers are not yet determined.

**12.2.3. Action Required:** AETC/DO will provide the necessary manpower authorizations for these MRT courses.

**13. Five Level Training:** There are no constraints.

**14. Seven Level Training:** There are no constraints.

## ***SECTION E - TRANSITIONAL TRAINING GUIDE***

### **15. U&TW Transition Training Plan (TTP) and Implementation Plan (IP):**

**15.1. The following is the TTP developed at the U&TW for career field changes due to merger of the A-10/F-15/U-2 avionic career fields:**

**15.1.1.** Oct 2001: Merge career field.

**15.1.2.** Mar 2003: All members will test on A-10/F-15/U-2 SKT.

**15.2. The following is the Implementation Plan developed at the U&TW:**

**15.2.1.** Aug 2000: Coordinate CFETP with MAJCOMs.

OPR: 365 TRS

**15.2.2.** Mar 2000: Revised AFMAN 36-2108 to AFPC for publication in Apr 98.

OPR: HQ USAF/  
ILMM

**15.2.3.** Dec 2000: Approval of CFETP.

OPR: HQ USAF/  
ILMM

**15.2.4.** Dec 2001: Publish 4 volume General 5 level CDCs.

OPR: 365 TRS

**15.2.5.** Jul 2001: New 3 level MRA course activates.

OPR: 365 TRS

**15.2.6.** Oct 2001: Publish 4 volume A-Shop 5 level CDCs.

OPR: 365 TRS

**15.2.7.** Oct 2001: Publish 3 volume B-Shop 5 level CDCs.

OPR: 365 TRS

**15.2.8.** Oct 2001: Publish 3 volume C-Shop 5 level CDCs.

OPR: 365 TRS

## PART II

### ***SECTION A - SPECIALTY TRAINING STANDARD***

**1. Implementation:** This STS will be used for technical training provided by Air and Education Training Command for classes beginning July 2001 and graduating October 2001.

**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. An asterisk (\*) before the number indicates a wartime course objective.

**2.2.** Column 2 (Core Tasks) identifies, by asterisk (\*), specialty-wide training requirements. Core tasks identified with an \*R are optional for AFRC and ANG. 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. For this AFSC, the F-15A-D; F-15E, A-10 and U-2 will be considered MDSs. For example, an individual assigned to a unit whose MDS is the F-15E must complete all core tasks applicable to F-15E for upgrade (completion of F-15A-D tasks is not required). Only core tasks which are applicable to base assigned aircraft or equipment are required for upgrade (units are not exempt if aircraft/equipment is assigned to another unit on base). The common core tasks in the CFETP will be identified by \*A (mandatory A shred), \*B (mandatory B shred), and \*C (mandatory C shred), so there is no confusion for 5-level upgrade. Core tasks for all three shreds must be completed for 7-level upgrade, with exception to unique tasks specified by MDS. MAJCOM functional managers, commanders, and supervisors may designate additional core tasks as necessary. When designated, certify these core tasks using normal core task certification procedures.

**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.** Show 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.** Is a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Senior NCOs with extensive practical experience in their career fields develop Specialty Knowledge Tests (SKTs) at the USAF Occupational Measurement Squadron. The tests sample knowledge of STS subject matter areas judged by test development team members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the WAPS catalog. Individual responsibilities are in chapter 14 of AFI 36-2606, *US Air Force Reenlistment, Retention, and NCO Status Programs*. WAPS is not applicable to the Air National Guard or Air Force Reserve.

**2.6. 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.

**2.7. Job Qualification Standard:** Becomes a job qualification standard (JQS) for on-the-job training when placed in AF Form 623, **On-The-Job Training Record**, and used according to AFI 36-2201. When used as a JQS, the following requirements apply:

**2.7.1. Documentation:** Document and certify completion of training. Automated records, utilizing Core Automated Management System (CAMS), Integrated Maintenance Data System/Global Combat Support System (IMDS/GCSS), reflecting this STS may be used and are highly encouraged. Use of attachments one through five is mandatory in individual training records; use of attachment six is optional depending upon duty position; attachment 7 is not used in training records. Pages 19-21 are mandatory to be filed in training records with attachment one. In addition, for units with multiple MDSs, only those core tasks applicable to one MDS are required for upgrade. For this AFSC, the A-10; F-15A-D; F-15E, and U-2 will be considered separate MDSs. Identify duty position requirements by circling the subparagraph number next to the task statement. As a minimum, complete the following columns in Part 2 of the CFETP: Tng Complete, Trainee Initials, Trainer Initials, and Certifier Initials (if applicable). There are no approved AFJQS for this AFSC.

**2.7.1.1. 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. For those tasks previously certified and required in the current duty position, evaluate current qualifications and, when verified, re-certify using current date as completion date and enter trainee's and trainer's initials. The certifier will initial on core tasks only. For previous certification on tasks not required in the current duty position, carry forward *only* the previous completion date. If and when these tasks become a duty position requirement, re-certify with current date, trainee's, trainer's and certifier's (core tasks only) initials.

**2.7.1.2. Documenting Career Knowledge:** When a CDC is not available: the supervisor identifies STS 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 STS items corresponding to the areas covered by the CDC. The trainee completes a study of STS references, undergoes evaluation by the task certifier, and receives certification on the STS. **NOTE:** Career Knowledge must be documented prior to submitting a CDC waiver.

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

**2.7.2. Training Standard:** Tasks are trained and qualified to the go/no go level. Go means the individual can perform the task without assistance and meet local demands for accuracy, timeliness, and correct use of procedures.

**3. Recommendations:** Report unsatisfactory performance of individual course graduates to the AETC training manager at 365 TRS/TRR, 609 9th Ave, Sheppard AFB TX, 76311-2335, DSN 736-7901 or E-mail Michael.Rachocki@Sheppard.af.mil. Reference specific STS paragraphs. For a quick response to problems, call our customer service information line, DSN 736-2574.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

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

7 Atchs

1. Proficiency Code Key (Mandatory to file attachment one with pages 19-21)
2. Training Requirements, Commons (Mandatory)
3. Training Requirements, A-Shred (Mandatory)
4. Training Requirements, B-Shred (Mandatory)
5. Training Requirements, C-Shred (Mandatory)
6. Training Requirements, Electronic Principles (Optional)
7. Training Matrix (Not used in training records)

PROFICIENCY CODE KEY

2A3X1

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

QUALITATIVE REQUIREMENTS

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

COMMONS

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	Course
<p>* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Example: b and 1b)</p> <p>** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.</p> <p>- This mark is used alone instead of a scale value to show that no proficiency training is provided in the course or CDC.</p> <p>x This mark is used alone in course columns to show that training is required but not given due to limitations in resources.</p> <p>NOTE 1: Core tasks identified in column 2A with an asterisk (*) are required for 5 level upgrade in all shops. Core tasks identified with "*n" (n = career field shred) are required for 5 level upgrade in that particular career field shred only. Core tasks with "*R" are optional for ANG/AFRC.</p> <p>NOTE 2: Core tasks identified in column 2A and 2B with an asterisk (*) are required for 7 level upgrade. 7 levels must comply with all 5 and 7 level core tasks.</p> <p>NOTE 3: STS Items A2.5.3.1. and A2.13.3. apply to the certification of only the TOs and Tools utilized during the "3b" MRA tasks identified.</p> <p>NOTE 4: Students are not certified on Aerospace Ground Equipment (AGE) . AGE is not coded as a MRA task in the CFETP. Therefore AGE is considered an input condition and will not be evaluated during "3b" certification tasks.</p>											
<b>*A2.1. CAREER LADDER STRUCTURE</b> <b>TR: AFMAN 36-2108; AFVA 36-212</b>								A	-	-	-
<b>*A2.2. SECURITY</b>											
A2.2.1. Communications Security (COMSEC) TR: DOD 5200.1-R; AFI 21-109 AFI 31-401; AFP 100-46; AF Security Classification Guide											
A2.2.1.1. Levels of classification								-	-	-	-
A2.2.1.2. Use MAJCOM/SOA EEFIs								-	-	-	-
A2.2.1.3. Observe security precautions involved in communications								-	-	-	-
A2.2.2. Operations Security (OPSEC) TR: AFIs 10-1101, 31-101, 31-401, 33-201											
A2.2.2.1. Definition of OPSEC								-	-	-	-
A2.2.2.2. History of OPSEC								-	-	-	-
A2.2.2.3. Relationship of OPSEC to other programs such as COMSEC, Information security, and physical security								-	-	-	-
A2.2.2.4. Common OPSEC vulnerabilities								-	-	-	-
A2.2.2.5. OPSEC significance of unclassified data								-	-	-	-
A2.2.2.6. Specific vulnerabilities of AFSC 2A3X1								A	-	-	-
A2.2.2.7. Physical security of resources								A	-	-	-

COMMONS

2A3X1

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	B	C		
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level		
<b>*A2.3. AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: AFIs 21-101, 91-202, 91-301, 91-302; AFOSH Stds 48-8,91-38, 127-12, 127-31, 127-43, 127-66, 127-100, 161-9, 161-10, 161-13, 161-21</b>												
A2.3.1. Hazards and AFOSH standards for AFSC 2A3X1								A	B	-	-	
A2.3.2. Work area cleanliness and safety								A	B	-	-	
A2.3.3. Hazards of RF energy								A	B	-	-	
A2.3.4. Report suspected RF overexposure								b	B	-	-	
A2.3.5. Safety practices when working with or in the vicinity of:												
A2.3.5.1. Compressed gases								A	A	-	-	
A2.3.5.2. RF sources								A	A	-	-	
A2.3.5.3. Electrical power								A	A	-	-	
A2.3.5.4. Hydraulic power								A	A	-	-	
A2.3.5.5. Hazardous liquids								-	A	-	-	
A2.3.5.6. Portable fire extinguishers								A	-	-	-	
A2.3.5.7. High intensity sound								A	A	-	-	
A2.3.6. FOD prevention								A	-	-	-	
A2.3.7. Laser safety								A	A	-	-	
A2.3.8. Hydrazine hazards								A	A	-	-	
<b>*A2.4. HAZARDOUS COMMUNICATION, MATERIAL, and WASTE TR: AFOSH Std 161-21</b>												
A2.4.1. Initial Federal Hazard Communication Training Program (FHCTP)								B	-	-	-	
A2.4.2. Identification								B	-	-	-	
A2.4.3. Handling/Material Safety Data Sheet (MSDS)								B	-	-	B	
A2.4.4. Storage/Labeling								B	-	-	-	
A2.4.5. Disposal								B	-	-	B	
<b>*A2.5. TECHNICAL PUBLICATIONS TR: TOs 00-5-1, 00-5-2, 00-5-18, and applicable airframe TOs</b>												
A2.5.1. Function and application								A	B	-	-	
A2.5.2. Use Wiring Diagrams								2b	-	-	-	

COMMONS

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	Level
							(1) Course	(2) CDC	(1) Course	(2) CDC	
A2.5.3. Use technical orders to perform											
A2.5.3.1. Maintenance	*							3b	-	-	-
A2.5.3.2. Inspections								-	-	-	-
A2.5.3.3. Time compliance TO								-	A	-	B
A2.5.4. Report TO deficiencies								-	A	-	B
A2.5.5. Technical order indexes								-	A	-	-
<b>*A2.6. SUPPLY DISCIPLINE TR: DoD 7200-10, AFM 67-1 (Vol I, Part One, Chapt 1; Vol II, Part One); AFMAN 23-220, and applicable command directives</b>											
A2.6.1. Maintenance Supply Concept								-	-	-	B
A2.6.2. Supply Documents Management								-	-	-	B
A2.6.3. Equipment Account Management								-	-	-	B
A2.6.4. Status of Reports and Training (SORTS)								-	-	-	A
A2.6.5. Priority System								-	-	-	B
A2.6.6. Repair Cycle/Depot Level Repairables (DLRs)								-	A	C	B
A2.6.7. Standard Base Supply System (SBSS)								-	-	-	B
A2.6.8. Classified Asset Handling								-	-	-	A
A2.6.9. Land Mobile Radios, Pagers, and Cell Phones								-	-	-	A
A2.6.10. Property responsibility								A	A	-	B
A2.6.11. Supply principles								A	A	-	B
A2.6.12. Use condition tags								b	B	-	-
A2.6.13. Use issue/turn-in forms											
A2.6.13.1. AFTO Form 350	*							2b	A	-	-
A2.6.13.2. AF Form 2005								2b	A	-	-
A2.6.13.3. Other forms								-	-	-	-
A2.6.14. Use Fed Log								-	-	-	-
A2.6.15. Agile Logistics								-	-	C	A
A2.6.16. Use supply products											
A2.6.16.1. D04								-	-	-	B
A2.6.16.2. D18								-	-	-	B

COMMONS

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A2.6.16.3. M30								-	-	-	B
A2.6.16.4. Other forms								-	-	-	-
<b>A2.7. SUPERVISION</b> TR: AFMAN 36-2108, AFIs 36-2101, 36-2403, 36-2503, 36-2803, 36-2805, 36-2907, 36-2618, 36-3017, 38-101, 38-201, AFM 50-62 and applicable command directives											
A2.7.1. Orient new personnel								-	-	-	-
A2.7.2. Report of survey TR: DoD 7200.10M								-	-	-	-
A2.7.3. Plan and schedule work assignments								-	-	C	-
A2.7.4. Assign											
A2.7.4.1. Maintenance and repair work								-	-	-	-
A2.7.4.2. Personnel to positions								-	-	-	-
A2.7.5. Supervise personnel accomplishing Maintenance								-	-	-	-
A2.7.6. Analyze maintenance and inspection reports and charts								-	-	-	B
A2.7.7. Evaluate work performance of subordinate personnel								-	-	-	-
A2.7.8. Perform self-assessments								-	-	-	A
<b>A2.8. TRAINING</b> TR: AFIs 36-2101; 36-2202, 36-2301; AFMAN 36-2108; AFCAT 36-2223											
A2.8.1. Career Field Education and Training Plan (CFETP)								-	-	-	B
A2.8.2. Specialty Training Standard (STS)								-	-	-	B
A2.8.3. Occupational Survey Report (OSR)								-	-	-	B
A2.8.4. Utilization and Training Workshop (U&TW)								-	-	-	B
A2.8.5. Evaluate personnel to determine need for training								-	-	C	-
A2.8.6. Recommend personnel for training								-	-	-	-
A2.8.7. Schedule training								-	-	-	-
A2.8.8. Prepare job qualification standards (AF Form 797)								-	-	-	-
A2.8.9. Maintain training records								-	-	-	B

COMMONS

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
A2.8.10. Evaluate effectiveness of training programs								-	-	C	-
A2.8.11. OJT trainer requirements								-	-	-	-
<b>*A2.9. MAINTENANCE MANAGEMENT TR: AFI 21-101, 109 and applicable command directives</b>											
A2.9.1. Maintenance accountability								-	A	C	B
A2.9.2. Core Values								-	-	-	-
A2.9.3. Basic functions and responsibilities of the maintenance complex								A	A	C	B
A2.9.4. Operational Risk Management								-	-	-	B
<b>A2.9.5. Logistics/Resource maintenance Management</b>											
A2.9.5.1. Logistics Management								-	-	C	B
A2.9.5.2. Resource Management								-	-	-	B
A2.9.5.3. Operations/Logistics Group Commander Responsibilities								-	-	-	B
A2.9.5.4. Technical Order Management								-	-	-	B
A2.9.5.5. Deficiency Reporting								-	-	-	-
A2.9.5.6. PEWG, TIPWG, STP, and PMR								-	-	-	A
A2.9.5.7. Financial Plan								-	-	-	A
A2.9.5.8. Aircraft Maintenance Management Information Systems								-	-	-	B
A2.9.5.9. Aircraft Monitoring								-	-	-	B
A2.9.5.10. Compliance and Standardization Listing (CSRL)								-	-	-	B
A2.9.5.11. Maintenance QPM Relationships								-	-	-	B
A2.9.5.12. FOD Program Manager								-	-	-	A
A2.9.5.13. Mobility								-	-	-	A
A2.9.5.14. Expediter, Production Supervisor, And Flight Chief Duties and Responsibilities								-	-	-	B
A2.9.5.15. Maintenance Incident Investigation And Prevention								-	-	-	B
<b>*A2.10. MAINTENANCE, INSPECTION SYSTEMS AND FORMS TR: AFI 21-109; TO 00-35D-54; TO 00-20 series and applicable</b>											

COMMONS

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
<b>Command directives</b>											
A2.10.1. Inspection systems								A	A	-	-
A2.10.2. Deficiency reporting system								-	A	C	B
A2.10.3. Complete deficiency reports								-	-	-	-
A2.10.4 Report software deficiencies								-	-	-	B
A2.10.5. Job Data Documentation (JDD)								-	-	-	B
A2.10.6. Historical Records								-	-	-	B
A2.10.7. Status Reports								-	-	-	B
A2.10.8. Configuration Management								-	-	-	B
A2.10.9. Use aircraft maintenance forms											
A2.10.9.1. 781A		*						3b	A	C	B
A2.10.9.2. 781H		*						2b	A	C	B
A2.10.9.3. 781K		*						2b	A	C	B
A2.10.9.4. Other 781 forms								-	A	C	B
A2.10.9.5. Form 244								-	-	-	B
A2.10.10. Use CAMS/Supply Interface to Document TR: AFM 66-279, V 27; 00-20 Series TOs, and Applicable Aircraft -06 TOs											
A2.10.10.1. Maintenance transactions		*						3b	B	-	A
A2.10.10.2. Supply transactions								-	-	-	A
A2.10.10.3. Management/Supervision Transactions								-	-	-	-
A2.10.10.4. Use Integrated Maintenance Data System (IMDS)								-	-	-	A
A2.10.10.5. Other Automated Maintenance Systems (RAMPOD and GO 81)								-	-	-	A
A2.10.10.6. Complete course J6AZU00066-058 - Air Force Maintenance Data Collection System (CAMS)		*R	*R					-	-	-	-
A2.10.10.7. Complete course J6AZU00066-062 - Core Automated Maintenance System (CAMS)(Mid-Level Maint Managers)		*R	*R					-	-	-	-
A2.10.11. Computerized Fault Reporting System (CFRS) (F-15)								A	-	-	-
A2.10.12. Use Computerized Fault Reporting System (CFRS) (F-15)								2b	-	-	-

COMMONS

2A3X1

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	B	C		
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	Information Provided	
<b>*A2.11. GENERAL AIRCRAFT TASKS</b> <b>TR: Applicable airframe series TOs and directives, AFOSH Standard 91 series, Tos 33A2 series, 35A4 series, 35D12 series, and 35E9 Series</b>												
A2.11.1. Aircraft general												
A2.11.1.1. Clean aircraft								-	-	-	-	
A2.11.1.2. Aircraft communication equipment												
A2.11.1.2.1. Operate radio								-	-	-	-	
A2.11.1.2.2. Use interphone								3b	-	-	-	
A2.11.1.3. Perform ground handling												
A2.11.1.3.1. Launch aircraft								-	-	-	-	
A2.11.1.3.2. Recover aircraft								-	-	-	-	
A2.11.1.3.3. Tow aircraft												
A2.11.1.3.3.1. Wing/tail walker								-	-	-	-	
A2.11.1.3.3.2. Aircraft brake operator								-	-	-	-	
A2.11.1.3.3.3. Tow team supervisor								-	-	-	-	
A2.11.1.3.4. Moor aircraft								-	-	-	-	
A2.11.1.3.5. Jack and level aircraft												
A2.11.1.3.5.1. Jacking team member								-	-	-	-	
A2.11.1.3.5.2. Jacking supervisor								-	-	-	-	
A2.11.1.3.6. Marshall aircraft								-	-	-	-	
A2.11.1.3.7. Cart team member								-	-	-	-	
A2.11.1.3.8. Cart team supervisor								-	-	-	-	
A2.11.1.3.9. Perform Integrated Combat Turn duties												
A2.11.1.3.9.1. Area Turn Supervisor (ATS)								-	-	-	-	
A2.11.1.3.9.2. Combat turn member								-	-	-	-	
A2.11.2. Airframe systems												
A2.11.2.1. Open												
A2.11.2.1.1. Panels								2b	-	-	-	
A2.11.2.1.2. Doors								2b	-	-	-	
A2.11.2.1.3. Radomes (F-15)								-	-	-	-	

COMMONS

2A3X1

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	B	C		
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	Level	
A2.11.2.2. Close												
A2.11.2.2.1. Panels								2b	-	-	-	
A2.11.2.2.2. Doors								2b	-	-	-	
A2.11.2.2.3. Radomes (F-15)								-	-	-	-	
A2.11.3. Utility systems								-	-	-	-	
A2.11.4. Hydraulic systems												
A2.11.4.1. Service								-	-	-	-	
A2.11.4.2. Inspect								-	-	-	-	
A2.11.5. Pneumatic system												
A2.11.5.1. Service								-	-	-	-	
A2.11.5.2. Inspect								-	-	-	-	
A2.11.6. Take engine oil samples (JOAP)								-	-	-	-	
A2.11.7. Aircraft fuel systems												
A2.11.7.1 Refuel aircraft (normal)												
A2.11.7.1.1. Refuel team member								-	-	-	-	
A2.11.7.1.2. Refuel team supervisor								-	-	-	-	
A2.11.7.2. Refuel aircraft (with engines operating)												
A2.11.7.2.1. Refuel team member								-	-	-	-	
A2.11.7.2.2. Refuel team supervisor								-	-	-	-	
A2.11.7.3. Defuel aircraft												
A2.11.7.3.1. Defuel team member								-	-	-	-	
A2.11.7.3.2. Defuel team supervisor								-	-	-	-	
A2.11.8. Egress system												
A2.11.8.1. Operate												
A2.11.8.1.1. Canopy								-	-	-	-	
A2.11.8.1.2. Seat adjustment								-	-	-	-	
A2.11.8.2. Install safety pins								-	-	-	-	
A2.11.8.3. Remove safety pins								-	-	-	-	
A2.11.9. Aircraft support equipment												
A2.11.9.1. Maintenance stand(s)												
A2.11.9.1.1. Perform pre-use inspection	*							3b	-	-	-	

COMMONS

2A3X1

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	B	C		
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	7 Skill Level	
A2.11.9.1.2. Use	*											
A2.11.9.2. Aircraft jacks												
A2.11.9.2.1. Perform pre-use inspection												
A2.11.9.2.2. Use												
A2.11.9.3. Portable hydraulic test stand												
A2.11.9.3.1. Perform pre-use inspection		*										
A2.11.9.3.2. Use		*										
A2.11.9.3.3. Bleed		*										
A2.11.9.4. Air conditioning units (F-15)												
A2.11.9.4.1. Perform pre-use inspection												
A2.11.9.4.2. Use												
A2.11.9.5. External electrical power generators (F-15)												
A2.11.9.5.1. Perform pre-use inspection												
A2.11.9.5.2. Use												
A2.11.9.6. Nitrogen servicing equipment (F-15)												
A2.11.9.6.1. Perform pre-use inspection												
A2.11.9.6.2. Use												
A2.11.9.7. Hydraulic servicing cart												
A2.11.9.7.1. Perform pre-use inspection												
A2.11.9.7.2. Use												
A2.11.9.8. Bomb lift truck												
A2.11.9.8.1. Perform pre-use inspection												
A2.11.9.8.2. Use												
A2.11.9.9. Air compressors												
A2.11.9.9.1. Perform pre-use inspection												
A2.11.9.9.2 Use												
A2.11.9.10. Heaters and blowers												
A2.11.9.10.1. Perform pre-use inspection												
A2.11.9.10.2. Use												
A2.11.9.11. Portable light equipment												

COMMONS

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A2.11.9.11.1. Perform pre-use inspection								-	-	-	-
A2.11.9.11.2. Use								-	-	-	-
<b>A2.12. ANCILLARY COMMON TASKS</b> <b>TR: Applicable TOs and directives</b>											
<b>A2.12.1. Computers and Computer Usage</b>											
A2.12.1.1. Application Use								-	-	-	A
A2.12.1.2. Operating Systems								-	-	-	A
A2.12.1.3. Hardware								-	-	-	A
A2.12.1.4. Local Area Networks (LAN)								-	-	-	A
<b>A2.12.2. Support section</b>											
A2.12.2.1. Maintain TMDE (PMEL) reports								-	-	-	-
A2.12.2.2. Maintain TO files								-	-	-	-
A2.12.2.3. Maintain test equipment								-	-	-	-
A2.12.2.4. Issue tools								-	-	-	-
A2.12.2.5. Inspect tools								-	-	-	-
A2.12.2.6. Maintain CA/CRLs								-	-	-	-
A2.12.2.7. Maintain bench stock								-	-	-	-
<b>A2.12.3. Debriefing</b>											
A2.12.3.1. Debrief pilots								-	-	-	-
A2.12.3.2. Maintain debriefing forms								-	-	-	-
A2.12.3.3. Use automated data systems								-	-	-	-
<b>A2.12.4. Dispatcher/expediter</b>											
A2.12.4.1. Maintain dispatch log/board								-	-	-	-
A2.12.4.2. Maintain parts status								-	-	-	-
A2.12.4.3. Maintain aircraft status board								-	-	-	-
A2.12.4.4. Use radio/radio discipline								-	-	-	-
A2.12.4.5. Use automated data systems								-	-	-	-
<b>A2.12.5. Aircraft Structural Integrity Program (ASIP) functions</b>											
A2.12.5.1. ASIP Monitor								-	-	-	-
A2.12.5.2. Complete forms								-	-	-	-
A2.12.5.3. Maintain reports								-	-	-	-

COMMONS

2A3X1

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	B	C		
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	Level	
A2.12.6. STU III												
A2.12.7. Serene BYTE /PACER Ware Program												
A2.12.7.1. Procedures												
A2.12.7.2. Reports												
<b>*A2.13. FUNDAMENTALS OF AVIONIC SYSTEMS MAINTENANCE TR: 91 series, Applicable airframe -1, -2, -4, -23 TO series; TOs 32-1-2, 32-1-101, 32-1-201, 00-25-234, 1-1-2, 1-1-689, 1-1A-8, 1-1A-14</b>												
A2.13.1. Aircraft familiarization												
A2.13.1.1. Major structural areas									B	A	-	-
A2.13.1.2. Major systems									B	A	-	-
A2.13.1.3. Danger areas									B	B	-	-
A2.13.2. Common avionic systems familiarization												
A2.13.2.1. Attack control systems									-	-	-	-
A2.13.2.2. Instrument and flight control Systems									-	-	-	-
A2.13.2.3. Communication, navigation and penetration aids systems									-	-	-	-
A2.13.3. Use common tool(s)									3b	A	-	-
A2.13.4. Corrosion control									A	B	-	-
A2.13.5. Protect												
A2.13.5.1. Exposed electrical connectors									a	A	-	-
A2.13.5.2. Open pressure lines									a	A	-	-
A2.13.5.3. Open waveguides									a	A	-	-
A2.13.6. Practice Electric Sensitive Device (ESD) Procedures									a	A	-	-
A2.13.7. Perform aircraft safe for maintenance check		*							3b	-	-	-
A2.13.8. Perform safety wiring									2b	A	-	-
A2.13.9. Use torque indicating devices									2b	A	-	-
A2.13.10. Use tensiometer (U-2)									-	-	-	-
A2.13.11. Follow CTK procedures		*							2b	-	-	-
A2.13.12. Chafing												

COMMONS

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A2.13.12.1. Causes								A	B	-	-
A2.13.12.2. Identification								A	B	-	-
A2.13.12.3. Prevention								A	B	-	-
A2.13.13. Advanced troubleshooting techniques/technical problem solving											
A2.13.13.1. Methodology								-	-	C	-
A2.13.13.2. Analysis								-	-	C	-
A2.13.14. Perform magnetic survey of base compass swing site								-	A	-	-
A2.13.15. Apply range marks								b	-	-	-
<b>*A2.14. AIRCRAFT WIRE, CABLE, AND TRANSMISSION LINE MAINTENANCE TR: Applicable airframe -1 and -2 series TOs</b>											
A2.14.1. Use wire repair kit(s)								2b	B	-	-
A2.14.2. Use heat gun								2b	A	-	-
A2.14.3. Aircraft wiring/connectors											
A2.14.3.1. Troubleshoot								2b	A	c	-
A2.14.3.2. Repair								2b	A	-	-
A2.14.3.3. Replace								2b	A	-	-
A2.14.3.4. Inspect								2b	A	-	-
A2.14.3.5. Wire lacing								2b	-	-	-
A2.14.4. RF/Video cables/connectors											
A2.14.4.1. Troubleshoot								2b	A	-	-
A2.14.4.2. Repair								b	-	-	-
A2.14.4.3. Replace								b	A	-	-
A2.14.4.4. Inspect								b	A	-	-
A2.14.5. Waveguides (F-15)											
A2.14.5.1. Remove								-	-	-	-
A2.14.5.2. Install								-	-	-	-
A2.14.5.3. Inspect								-	-	-	-
<b>A2.15. AIRCRAFT BORESIGHT PROCEDURES TR: Applicable F-15 TOs</b>											

COMMONS

2A3X1

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	B	C		
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	Level	
A2.15.1. Check alignment												
A2.15.1.1. HUD mount								-	-	-	-	
A2.15.1.2. HUD symbology								-	-	-	-	
A2.15.1.3. INU mount								-	-	-	-	
A2.15.1.4. Radar antenna mount								-	-	-	-	
A2.15.1.5. Radar antenna								-	-	-	-	
A2.15.1.6. DG mount								-	-	-	-	
A2.15.1.7. LANTIRN NAV pod (F-15E)								-	-	-	-	
A2.15.1.8. LANTIRN TGT pod (F-15E)								-	-	-	-	
A2.15.2. Perform boresight												
A2.15.2.1. HUD mount								-	-	-	-	
A2.15.2.2. INU mount								-	-	-	-	
A2.15.2.3. DG mount								-	-	-	-	
<b>*A2.16. USE TEST EQUIPMENT TR: Applicable airframe TOs</b>												
A2.16.1. Boresight equipment								-	-	-	-	
A2.16.2. RF tester (AN/USM-2059) (F-15)								3b	-	-	-	
A2.16.3. WOW/proximity box (F-15)		*						b	-	-	-	
A2.16.4. Waveguide pressure tester (F-15)								2b	-	-	-	
A2.16.5. PLV/NT (F-15)		*A *C						2b	-	-	-	
A2.16.6. PLV (A-10)								2b	-	-	-	
A2.16.7. RFLTS								-	-	2b	-	
A2.16.8. Fuel quantity tester								-	-	-	-	
A2.16.9. Hydrometer								-	A	-	-	
A2.16.10. Compass calibrator								-	A	-	-	
A2.16.11. Standby compass calibrator								-	-	-	-	
A2.16.12. TTU-205								3b	B	-	-	
A2.16.13. Automatic Flight Control System test set (F-15A-D)								3b	B	-	-	
A2.16.14. Linear gauge (Pogo Stick)								-	-	-	-	
A2.16.15. Thru-line WATT meter								-	-	-	-	

COMMONS

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A2.16.16. ILS test set								3b	A	-	-
A2.16.17. IFF test set								3b	A	-	-
A2.16.18. AAI test set (F-15)								-	A	-	-
A2.16.19. Radar target simulator (AN/APM-427)								2b	A	-	-
A2.16.20. HPRF target generator								-	-	-	-
A2.16.21. Time domain reflectometer								2b	A	3c	-
A2.16.22. Antenna diode tester (F-15)								-	-	-	-
A2.16.23. In-flight monitor (F-15)								a	A	-	-
A2.16.24. Pitot static adapter								3b	-	-	-
A2.16.25. Ultrasonic leak detector								-	-	-	-
A2.16.26. Countermeasure dispenser test set								-	A	-	-
A2.16.27. Digital computer set (A-10)								-	-	-	-
A2.16.28. Portable data terminal (F-15E)		*A						-	-	-	-
A2.16.29. Crows Cart (TEWS) (F-15)								-	-	-	-
A2.16.30. CAPRE								2b/x	-	-	-
A2.16.31. Portable Automatic Test Set/Operational Test Set (PATS/OTS) (A-10)								2b	-	-	-
A2.16.32. TACAN test set (A-10 and U-2)								2b	-	-	-
A2.16.33. Detector/simulator test set (A-10)								-	-	-	-
A2.16.34. Crypto-fill devices											
A2.16.34.1. CYZ-10		*C	*					3b	B	-	-
A2.16.34.2. KYK-13		*C	*					3b	B	-	-
A2.16.34.3. KOI-18		*C	*					3b	B	-	-
A2.16.34.4. Other								-	-	-	-
A2.16.35. Portable Data Transfer System (PDTS) (U-2)								-	B	-	-
A2.16.36. Gull Tester (fuel quantity)								-	-	-	-

A-SHRED

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
<b>ATTACK CONTROL SYSTEMS APPRENTICE/JOURNEYMAN/ CRAFTSMAN</b>											
<b>*A3.1. WEAPONS CONTROL - RADAR SYSTEM (RADAR SET AND INDICATOR GROUP (IG))/(APG-63/APG-63(V)1/APG-70) TR: Applicable airframe TOs</b>											
A3.1.1. APG-63/APG-63(V)1 (F-15)											
A3.1.1.1. Theory of operation								B	B	-	-
A3.1.1.2. Trace system diagrams								b	-	-	-
A3.1.1.3. Perform											
A3.1.1.3.1. Operational checkout	*A	*						-	-	-	-
A3.1.1.3.2. Pressurization check	*A	*						2b	-	-	-
A3.1.1.3.3. BIT	*A	*						2b	-	-	-
A3.1.1.3.4. RF output checkout								-	-	-	-
A3.1.1.4. Isolate malfunctions								b	-	-	-
A3.1.1.5. Remove system LRU(s)											
A3.1.1.5.1. Receiver/Receiver exciter								3b	-	-	-
A3.1.1.5.2. Transmitter								2b	-	-	-
A3.1.1.5.3. Other LRU(s)								-	-	-	-
A3.1.1.6. Install system LRU(s)											
A3.1.1.6.1. Receiver/Receiver exciter								3b	-	-	-
A3.1.1.6.2. Transmitter								2b	-	-	-
A3.1.1.6.3. Other LRU(s)								-	-	-	-
A3.1.1.7. Load/Verify/Reprogram system								-	-	-	-
A3.1.2. APG-70 (F-15C/D/E)											
A3.1.2.1. Theory of operation								B	B	-	-
A3.1.2.2. Trace system diagrams								b	-	-	-
A3.1.2.3. Perform											
A3.1.2.3.1. Operational checkout	*A	*						2b	-	-	-
A3.1.2.3.2. Pressurization check	*A	*						-	-	-	-
A3.1.2.3.3. BIT	*A	*						2b	-	-	-
A3.1.2.3.4. RF output checkout								-	-	-	-

A-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A3.1.2.4. Isolate malfunctions								b	-	-	-
A3.1.2.5. Remove system LRU(s)								-	-	-	-
A3.1.2.6. Install system LRU(s)								-	-	-	-
A3.1.2.7. Load/Verify/Reprogram system								-	-	-	-
<b>*A3.2. F-15 OVERLOAD WARNING SYSTEM (OWS) TR: Applicable airframe TOs</b>											
A3.2.1. Theory of operation								B	B	-	-
A3.2.2. Trace system diagrams								b	-	-	-
A3.2.3. Perform matrix readout and ASP 72 reset								3b	-	-	-
A3.2.4. Perform operational checkout											
A3.2.4.1. With adapter cable								-	-	-	-
A3.2.4.2. Without adapter cable								-	-	-	-
A3.2.5. Isolate malfunctions								b	-	-	-
<b>*A3.3. F-15 HEAD UP DISPLAY (HUD) SYSTEMS TR: Applicable airframe TOs</b>											
A3.3.1. F-15A-D HUD SYSTEM											
A3.3.1.1. Theory of operation								B	B	-	-
A3.3.1.2. Trace system diagrams								b	-	-	-
A3.3.1.3. Perform operational checkout	*A	*						3b	-	-	-
A3.3.1.4. Isolate malfunctions								b	-	-	-
A3.3.1.5. Remove system LRU(s)											
A3.3.1.5.1. HUD								2b	-	-	-
A3.3.1.5.2. HUD processor								3b	-	-	-
A3.3.1.5.3. Other LRU(s)								-	-	-	-
A3.3.1.6. Install system LRU(s)											
A3.3.1.6.1. HUD	*A	*						2b	-	-	-
A3.3.1.6.2. HUD processor	*A	*						3b	-	-	-
A3.3.1.6.3. Other LRU(s)								-	-	-	-
A3.3.2. F-15E HUD SYSTEM											
A3.3.2.1. Theory of operation								B	B	-	-

A-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A3.3.2.2. Trace system diagrams								b	-	-	-
A3.3.2.3. Perform operational checkout	*A	*						2b	-	-	-
A3.3.2.4. Isolate malfunctions								b	-	-	-
A3.3.2.5. Remove Wide Field of View HUD								-	-	-	-
A3.3.2.6. Install Wide Field of View HUD								-	-	-	-
<b>*A3.4. F-15 INERTIAL NAVIGATION SYSTEM (INS) TR: Applicable airframe TOs</b>											
A3.4.1. Theory of operation								B	B	-	-
A3.4.2. Trace system diagrams								b	-	-	-
A3.4.3. Perform BIT and alignment checkout	*A	*						2b	-	-	-
A3.4.4. Isolate malfunctions								2b	-	-	-
<b>A3.4.5. Remove system LRU(s)</b>											
A3.4.5.1. Inertial navigation unit								2b	-	-	-
A3.4.5.2. Other LRU(s)								-	-	-	-
<b>A3.4.6. Install system LRU(s)</b>											
A3.4.6.1. Inertial navigation unit								2b	-	-	-
A3.4.6.2. Other LRU(s)								-	-	-	-
<b>*A3.5. F-15 EMBEDDED GLOBAL POSITIONING SYSTEM /INERTIAL NAVIGATION SYSTEM (EGI) TR: Applicable airframe TOs</b>											
A3.5.1. Theory of operation								B	B	-	-
A3.5.2. Trace system diagrams								-	-	-	-
<b>A3.5.3. Perform</b>											
A3.5.3.1. Operational checkout								2b	-	-	-
A3.5.3.2. BIT								2b	-	-	-
A3.5.4. Isolate malfunctions								b	-	-	-
A3.5.5. Remove system LRU(s)								-	-	-	-
A3.5.6. Install system LRU(s)								-	-	-	-
<b>A3.5.7. Load</b>											
A3.5.7.1. GPS key (SA/AS crypto variables)								-	-	-	-
A3.5.7.2. Almanac data								-	-	-	-

A-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
<b>*A3.6. F-15 CENTRAL COMPUTER (CC) SYSTEM TR: Applicable airframe TOs</b>											
A3.6.1. Theory of operation								B	B	-	-
A3.6.2. Trace system diagrams								b	-	-	-
A3.6.3. Perform											
A3.6.3.1. Operational checkout	*A	*						3b	-	-	-
A3.6.3.2. CC memory inspect procedure											
A3.6.3.2.1. F-15 A-D								b	-	-	-
A3.6.3.2.2. F-15E (Audit)								b	-	-	-
A3.6.3.3. Manual programming of mission data								-	-	-	-
A3.6.3.4. Auto reprogramming, retrieval, and clearing of mission data								-	-	-	-
A3.6.4. Isolate malfunctions								b	-	-	-
A3.6.5. Remove system LRU(s)											
A3.6.5.1. CC								3b	-	-	-
A3.6.5.2. Other LRU(s)								-	-	-	-
A3.6.6. Install system LRU(s)											
A3.6.6.1. CC								3b	-	-	-
A3.6.6.2. Other LRU(s)								-	-	-	-
A3.6.7. Load/Verify/Reprogram system								-	-	-	-
<b>*A3.7. F-15 VIDEO TAPE RECORDING SYSTEM (VTRS) TR: Applicable airframe TOs</b>											
A3.7.1. Theory of operation								B	B	-	-
A3.7.2. Trace system diagrams								b	-	-	-
A3.7.3. Perform											
A3.7.3.1. Operational checkout	*A	*						-	-	-	-
A3.7.3.2. Cleaning								-	-	-	-
A3.7.4. Isolate malfunctions								-	-	-	-
A3.7.5. Remove system LRU(s)								-	-	-	-
A3.7.6. Install system LRU(s)								-	-	-	-

A-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
<b>*A3.8. F-15E LANTIRN NAVIGATION POD TR: Applicable airframe-TOs</b>											
A3.8.1. Theory of operation								B	B	-	-
A3.8.2. Trace system diagrams								b	-	-	-
A3.8.3. Perform											
A3.8.3.1. BIT checkout	*A	*						2b	-	-	-
A3.8.3.2. Maintenance BIT checkout	*A	*						2b	-	-	-
A3.8.4. Isolate malfunctions								b	-	-	-
A3.8.5. Remove system LRU(s)											
A3.8.5.1. Power supply	*A	*						-	-	-	-
A3.8.5.2. ECU	*A	*						2b	-	-	-
A3.8.5.3. Radar transmitter	*A	*						2b	-	-	-
A3.8.5.4. IR receiver (FINS)	*A	*						2b	-	-	-
A3.8.5.5. Other LRU(s)								-	-	-	-
A3.8.6. Install system LRU(s)											
A3.8.6.1. Power supply	*A	*						-	-	-	-
A3.8.6.2. ECU	*A	*						2b	-	-	-
A3.8.6.3. Radar transmitter	*A	*						2b	-	-	-
A3.8.6.4. IR receiver (FINS)	*A	*						2b	-	-	-
A3.8.6.5. Other LRU(s)								-	-	-	-
A3.8.7. Service (Nitrogen)								-	-	-	-
A3.8.8. Upload/Download	*A	*						-	-	-	-
<b>*A3.9. F-15E LANTIRN TARGETING POD TR: Applicable airframe TOs</b>											
A3.9.1. Theory of operation								B	B	-	-
A3.9.2. Trace system diagrams								b	-	-	-
A3.9.3. Perform											
A3.9.3.1. Functional checkout	*A	*						2b	-	-	-
A3.9.3.2. Maintenance BIT	*A	*						2b	-	-	-
A3.9.4. Isolate malfunctions								b	-	-	-
A3.9.5. Remove system LRU(s)											

A-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A3.9.5.1. Power supply	*A	*						-	-	-	-
A3.9.5.2. ECU	*A	*						-	-	-	-
A3.9.5.3. Targeting set controller (Central electronics unit - CEU)	*A	*						-	-	-	-
A3.9.5.4. Other LRU(s)								-	-	-	-
A3.9.6. Install system LRU(s)											
A3.9.6.1. Power supply	*A	*						-	-	-	-
A3.9.6.2. ECU	*A	*						-	-	-	-
A3.9.6.3. Targeting set controller (Central electronics unit - CEU)	*A	*						-	-	-	-
A3.9.6.4. Other LRU(s)								-	-	-	-
A3.9.7. Service (Nitrogen)								-	-	-	-
A3.9.8. Upload/download	*A	*						-	-	-	-
<b>*A3.10. F-15E REMOTE MAP READER (RMR)/ DIGITAL MAP SYSTEM (DMS) TR: Applicable airframe TOs</b>											
A3.10.1. Theory of operation								B	B	-	-
A3.10.2. Trace system diagrams								b	-	-	-
A3.10.3. Perform BIT checkout	*A	*						2b	-	-	-
A3.10.4. Isolate malfunctions								b	-	-	-
A3.10.5. Remove reader								-	-	-	-
A3.10.6. Install reader								-	-	-	-
<b>*A3.11. F-15E MULTIPURPOSE DISPLAY (MPD) SYSTEM TR: Applicable airframe TOs</b>											
A3.11.1. Theory of operation								B	B	-	-
A3.11.2. Trace system diagrams								b	-	-	-
A3.11.3. Perform											
A3.11.3.1. Operational checkout	*A	*						2b	-	-	-
A3.11.3.2. BIT	*A	*						2b	-	-	-
A3.11.4. Isolate malfunctions								b	-	-	-
A3.11.5. Remove system LRU(s)								-	-	-	-
A3.11.6. Install system LRU(s)								-	-	-	-

A-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A3.11.7. Load/Verify/Reprogram system											
<b>*A3.12. F-15E COMBINED ALTITUDE RADAR ALTIMETER (CARA) TR: Applicable airframe TOs</b>											
A3.12.1. Theory of operation								B	B	-	-
A3.12.2. Trace system diagrams								b	-	-	-
A3.12.3. Perform BIT checkout	*A	*						2b	-	-	-
A3.12.4. Isolate malfunctions								b	-	-	-
A3.12.5. Remove system LRU(s)								-	-	-	-
A3.12.6. Install system LRU(s)								-	-	-	-
<b>*A3.13. F-15 JOINT HELMET MOUNTED CUEING SYSTEM TR: Applicable airframe TOs</b>											
A3.13.1. Theory of operation								-	-	-	-
A3.13.2. Trace system diagrams								-	-	-	-
A3.13.3. Perform BIT checkout								-	-	-	-
A3.13.4. Isolate malfunctions								-	-	-	-
A3.13.5. Remove LRU(s)								-	-	-	-
A3.13.6. Install LRU(s)								-	-	-	-
A3.13.7. Perform mapping								-	-	-	-
<b>*A3.14. A-10 TV MONITOR SYSTEM (TVM) TR: Applicable airframe TOs</b>											
A3.14.1. Theory of operation								B	B	-	-
A3.14.2. Trace system diagrams								b	-	-	-
<b>A3.14.3. Perform</b>											
A3.14.3.1. Operational checkout	*A	*						3b	-	-	-
A3.14.3.2. Video circuitry inspection								-	-	-	-
A3.14.4. Isolate malfunctions								-	-	-	-
A3.14.5. Remove LRU(s)								-	-	-	-
A3.14.6. Install LRU(s)								-	-	-	-
<b>*A3.15. A-10 INERTIAL NAVIGATION SYSTEM (INS) TR: Applicable airframe TOs</b>											
A3.15.1. Theory of operation								-	B	-	-

A-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A3.15.2. Trace system diagrams								-	-	-	-
A3.15.3. Perform operational checkout								-	-	-	-
A3.15.4. Isolate malfunctions								-	-	-	-
A3.15.5. Remove system LRU(s)								-	-	-	-
A3.15.6. Install system LRU(s)								-	-	-	-
<b>*A3.16. A-10 EMBEDDED GLOBAL POSITION/INERTIAL NAVIGATION SYSTEM (EGI) TR: Applicable airframe TOs</b>											
A3.16.1. Theory of operation								B	B	-	-
A3.16.2. Trace system diagrams								b	-	-	-
A3.16.3. Perform operational checkout								3b	-	-	-
A3.16.4. Isolate malfunctions								-	-	-	-
A3.16.5. Remove system LRU(s)								-	-	-	-
A3.16.6. Install system LRU(s)								-	-	-	-
A3.16.7. Load											
A3.16.7.1. GPS key (SA/AS crypto variables)								-	-	-	-
A3.16.7.2. Almanac data								-	-	-	-
<b>*A3.17. A-10 HEAD UP DISPLAY (HUD) TR: Applicable airframe TOs</b>											
A3.17.1. Theory of operation								B	B	-	-
A3.17.2. Trace system diagrams								b	-	-	-
A3.17.3. Perform operational checkout	*A	*						-	-	-	-
A3.17.4. Isolate malfunctions								-	-	-	-
A3.17.5. Remove LRU(s)								-	-	-	-
A3.17.6. Install LRU(s)								-	-	-	-
<b>*A3.18. A-10 1553 DATA BUS TR: Applicable airframe TOs</b>											
A3.18.1. Theory of operation								B	B	-	-
A3.18.2. Trace system diagrams								b	-	-	-
A3.18.3. Isolate malfunctions								-	-	-	-
A3.18.4. Remove system LRU(s)											
A3.18.4.1. BUS couplers								-	-	-	-

A-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A3.18.4.2. Other LRU(s)								-	-	-	-
A3.18.5. Install system LRU(s)											
A3.18.5.1. BUS couplers								-	-	-	-
A3.18.5.2. Other LRU(s)								-	-	-	-
<b>*A3.19. A-10 DATA TRANSFER SYSTEM TR: Applicable airframe TOs</b>											
A3.19.1. Theory of operation								-	B	-	-
A3.19.2. Trace system diagrams								-	-	-	-
A3.19.3. Perform operational checkout								-	-	-	-
A3.19.4. Isolate malfunctions								-	-	-	-
A3.19.5. Remove LRU(s)								-	-	-	-
A3.19.6. Install LRU(s)								-	-	-	-
<b>*A3.20. A-10 LOW ALTITUDE SAFETY TARGET ENHANCEMENT SYSTEM (LASTE) TR: Applicable airframe TOs</b>											
A3.20.1. Theory of operation								B	B	-	-
A3.20.2. Trace system diagrams								-	-	-	-
A3.20.3. Perform operational checkout	*A	*						3b	-	-	-
A3.20.4. Isolate malfunctions								-	-	-	-
A3.20.4.1. LASTE Analysis (PATS)								2b	-	-	-
A3.20.5. Remove system LRU(s)											
A3.20.5.1. Radar altimeter								-	-	-	-
A3.20.5.2. Antenna switching unit								-	-	-	-
A3.20.5.3. Antennas								-	-	-	-
A3.20.5.4. Other LRU(s)								-	-	-	-
A3.20.6. Install system LRU(s)											
A3.20.6.1. Radar altimeter								-	-	-	-
A3.20.6.2. Antenna switching unit								-	-	-	-
A3.20.6.3. Antennas								-	-	-	-
A3.20.6.4. Other LRU(s)								-	-	-	-

A-SHRED

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	Level
<b>*A3.21. A-10 PAVE PENNY AAS-35 TR: TO 1A-10A-2-94-JG-2, 1A-10A-2-94-TS-1</b>											
A3.21.1. Theory of operation								B	B	-	-
A3.21.2. Trace system diagrams								b	-	-	-
A3.21.3. Perform											
A3.21.3.1. Operational checkout	*A	*						-	-	-	-
A3.21.3.2. Laser boresight								-	-	-	-
A3.21.4. Isolate malfunctions								-	-	-	-
A3.21.5. Remove system LRU(s)											
A3.21.5.1. POD	*A	*						2b	-	-	-
A3.21.5.2. Pylon								-	-	-	-
A3.21.5.3. Other LRU(s)								-	-	-	-
A3.21.6. Install system LRU(s)											
A3.21.6.1. POD	*A	*						2b	-	-	-
A3.21.6.2. Pylon								-	-	-	-
A3.21.6.3. Other LRU(s)								-	-	-	-
A3.21.7. Service POD								-	-	-	-
<b>*A3.22. A-10 COLOR COCKPIT TV SENSOR (CCTVS)/COLOR AUDIO VIDEO TAPE RECORDER (CAVTR) TR: TO 1A-10A-2-94-JG-2, 1A-10A-2-94-TS-1</b>											
A3.22.1. Theory of operation								B	B	-	-
A3.22.2. Trace system diagrams								b	-	-	-
A3.22.3. Perform operational checkout	*A	*						-	-	-	-
A3.22.4. Isolate malfunctions								-	-	-	-
A3.22.5. Remove LRU(s)								-	-	-	-
A3.22.6. Install LRU(s)								-	-	-	-
<b>*A3.23. U-2 INERTIAL NAVIGATION SYSTEM TR: TO U-2S-2-10</b>											
A3.23.1. Theory of operation								-	-	-	-
A3.23.2. Trace system diagrams								-	-	-	-
A3.23.3. Perform INS preflight								-	-	-	-

A-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A3.23.4. Manually Load/modify/verify destination points								-	-	-	-
A3.23.5. Electronically load destination points with PDTS								-	-	-	-
A3.23.6. Isolate malfunctions								-	-	-	-
A3.23.7. Remove system LRU(s)								-	-	-	-
A3.23.8. Install system LRU(s)								-	-	-	-
<b>*A3.24. U-2 1553B DATA BUS TR: TO U-2S-2-10</b>											
A3.24.1. Theory of operation								-	B	-	-
A3.24.2. Trace system diagrams								-	-	-	-
A3.24.3. Perform operational checkout								-	-	-	-
A3.24.4. Isolate malfunctions								-	-	-	-
A3.24.5. Remove system LRU(s)								-	-	-	-
A3.24.6. Install system LRU(s)								-	-	-	-
<b>*A3.25. U-2 GLOBAL POSITIONING SYSTEM (GPS) TR: TO U-2S-2-10</b>											
A3.25.1. Theory of operation								-	-	-	-
A3.25.2. Trace system diagrams								-	-	-	-
A3.25.3. Perform operational checkout								-	-	-	-
A3.25.4. Isolate malfunctions								-	-	-	-
A3.25.5. Remove system LRU(s)								-	-	-	-
A3.25.6. Install system LRU(s)								-	-	-	-
A3.25.7. Load											
A3.25.7.1. GPS key (SA/AS crypto variables)								-	-	-	-
A3.25.7.2. Almanac data								-	-	-	-

A-SHRED

2A3X1

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	B	C		
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	7 Skill Level	
<b>A3.26. U-2 Inertial Navigation System PIIG (embedded GPS) TR: TO U-2S -2-10</b>												
A3.26.1. Theory of operation								-	B	-	-	
A3.26.2. Trace system diagrams								-	-	-	-	
A.3.26.3. Perform operational check								-	-	-	-	
A.3.26.4. Isolate malfunctions								-	-	-	-	
A.3.26..5. Perform preflight								-	-	-	-	
A.3.26.6. Load								-	-	-	-	
A.3.26.6.1. Manually load/modify/verify destination points								-	-	-	-	
A.3.26.6.2. Electronically load destination points With PDTS								-	-	-	-	
A.3.26.6.3 GPS key (SA/AS cryptovariables)								-	-	-	-	
A.3.26.6.4. Almanac data								-	-	-	-	

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
<b>INSTRUMENT AND FLIGHT CONTROL SYSTEMS APPRENTICE/JOURNEYMAN/ CRAFTSMAN</b>											
<b>*A4.1. F-15 FUEL QUANTITY INDICATING SYSTEM TR: Applicable airframe TOs</b>											
A4.1.1. Theory of operation								B	B	-	-
A4.1.2. Trace system diagrams								b	-	-	-
<b>A4.1.3. Perform</b>											
A4.1.3.1. Operational checkout											
A4.1.3.1.1. Built in test								3b	-	-	-
A4.1.3.1.2. Bingo								3b	-	-	-
A4.1.3.1.3. Empty	*B	*						-	-	-	-
A4.1.3.1.4. Full	*B	*						-	-	-	-
A4.1.3.2. Fuel low level warning operational checkout		*						-	-	-	-
A4.1.3.3. System calibration	*B	*						2b	-	-	-
A4.1.4. Isolate malfunctions								b	B	-	-
<b>A4.1.5. Remove system LRU(s)</b>											
A4.1.5.1. Indicator								3b	-	-	-
A4.1.5.2. Other LRU(s)								-	-	-	-
<b>A4.1.6. Install system LRU(s)</b>											
A4.1.6.1. Indicator								3b	-	-	-
A4.1.6.2. Other LRU(s)								-	-	-	-
<b>*A4.2. F-15 STANDBY ATTITUDE INDICATOR, STANDBY COMPASS, ATTITUDE HEADING REFERENCE SYSTEM (AHRS) TR: Applicable airframe TOs</b>											
<b>A4.2.1. Standby attitude indicator</b>											
A4.2.1.1. Theory of operation								A	B	-	-
A4.2.1.2. Trace system diagrams								-	-	-	-
A4.2.1.3. Perform operational checkout								-	-	-	-

B-SHRED

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A4.2.1.4. Isolate malfunctions								-	-	-	-
A4.2.1.5. Remove standby attitude indicator								-	-	-	-
A4.2.1.6. Install standby attitude indicator								-	-	-	-
A4.2.2. Standby Compass											
A4.2.2.1. Theory of operation								A	B	-	-
A4.2.2.2. Trace system diagrams								-	-	-	-
A4.2.2.3. Perform operational checkout								-	-	-	-
A4.2.2.4. Isolate malfunctions								-	-	-	-
A4.2.2.5. Remove standby compass								-	-	-	-
A4.2.2.6. Install standby compass								-	-	-	-
A4.2.2.7. Compass degaussing								-	A	-	-
A4.2.3. AHRS											
A4.2.3.1. Theory of operation								B	B	-	-
A4.2.3.2. Trace system diagrams								b	-	-	-
A4.2.3.3. Perform											
A4.2.3.3.1. Operational checkout	*B	*						3b	-	-	-
A4.2.3.3.2. Swing and compensation checks								a	B	-	-
A4.2.3.4. Isolate malfunctions								b	-	-	-
A4.2.3.5. Remove system LRU(s)											
A4.2.3.5.1. Displacement gyro (DG)								3b	-	-	-
A4.2.3.5.2. Electronic control amplifier (ECA)								3b	-	-	-
A4.2.3.5.3. Attitude Indicator								3b	-	-	-
A4.2.3.5.4. Other LRU(s)								-	-	-	-
A4.2.3.6. Install system LRU(s)											
A4.2.3.6.1. Displacement gyro (DG)								3b	-	-	-
A4.2.3.6.2. Electronic control amplifier (ECA)								3b	-	-	-
A4.2.3.6.3. Attitude Indicator								3b	-	-	-
A4.2.3.6.4. Other LRU(s)								-	-	-	-
*A4.3. F-15 HORIZONTAL SITUATION INDICATING (HSI) SYSTEM TR: Applicable airframe Tos											

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.3.1. Theory of operation								B	B	-	-
A4.3.2. Trace system diagrams								b	-	-	-
A4.3.3. Perform											
A4.3.3.1. Operational checkout	*B	*						3b	-	-	-
A4.3.3.2. BIT	*B	*						3b	-	-	-
A4.3.4. Isolate malfunctions								b	-	-	-
A4.3.5. Remove system LRU(s)											
A4.3.5.1. HSI								3b	-	-	-
A4.3.5.2. Flight director adapter								3b	-	-	-
A4.3.5.3. Steer mode switch								-	-	-	-
A4.3.6. Install system LRU(s)											
A4.3.6.1. HSI								3b	-	-	-
A4.3.6.2. Flight director adapter								3b	-	-	-
A4.3.6.3. Steer mode switch								-	-	-	-
<b>*A4.4. F-15 ACCELERATION INDICATING/ G EXCEEDANCE SYSTEMS TR: Applicable airframe TOs</b>											
A4.4.1. Theory of operation								B	B	-	-
A4.4.2. Trace system diagrams								b	-	-	-
A4.4.3. Perform operational checkout	*B	*						3b	-	-	-
A4.4.4. Isolate malfunctions								-	-	-	-
A4.4.5. Remove system LRU(s)								-	-	-	-
A4.4.6. Install system LRU(s)								-	-	-	-
<b>*A4.5. F-15 HYDRAULIC PRESSURE INDICATING SYSTEM TR: Applicable airframe TOs</b>											
A4.5.1. Theory of operation								B	B	-	-
A4.5.2. Trace system diagrams								b	-	-	-
A4.5.3. Perform operational checkout	*B	*						2b	-	-	-
A4.5.4. Isolate malfunctions								b	-	-	-
A4.5.5. Remove system LRU(s)											

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.5.5.1. Indicator								-	-	-	-
A4.5.5.2. Transmitter								-	-	-	-
A4.5.6. Install system LRU(s)											
A4.5.6.1. Indicator								-	-	-	-
A4.5.6.2. Transmitter								-	-	-	-
<b>*A4.6. F-15A-D ENGINE INSTRUMENTS TR: Applicable airframe TOs</b>											
A4.6.1. Oil Pressure											
A4.6.1.1. Theory of operation								B	B	-	-
A4.6.1.2. Trace system diagrams								b	-	-	-
A4.6.1.3. Isolate malfunctions								-	-	-	-
A4.6.1.4. Remove Indicator								-	-	-	-
A4.6.1.5. Install Indicator								-	-	-	-
A4.6.2. Tachometer											
A4.6.2.1. Theory of operation								B	B	-	-
A4.6.2.2. Trace system diagrams								b	-	-	-
A4.6.2.3. Isolate malfunctions								-	-	-	-
A4.6.2.4. Remove Indicator								-	-	-	-
A4.6.2.5. Install Indicator								-	-	-	-
A4.6.3. Fan Turbine Inlet Temperature (FTIT)											
A4.6.3.1. Theory of operation								B	B	-	-
A4.6.3.2. Trace system diagrams								b	-	-	-
A4.6.3.3. Isolate malfunctions								-	-	-	-
A4.6.3.4. Remove Indicator								3b	-	-	-
A4.6.3.5. Install Indicator								3b	-	-	-
A4.6.4. Fuel Flow											
A4.6.4.1. Theory of operation								B	B	-	-
A4.6.4.2. Trace system diagrams								b	-	-	-
A4.6.4.3. Isolate malfunctions								-	-	-	-
A4.6.4.4. Remove system indicator								-	-	-	-

B-SHRED

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A4.6.4.5. Install system indicator								-	-	-	-
A4.6.5. Nozzle Position											
A4.6.5.1. Theory of operation								B	B	-	-
A4.6.5.2. Trace system diagrams								b	-	-	-
A4.6.5.3. Isolate malfunctions								-	-	-	-
A4.6.5.4. Remove Indicator								-	-	-	-
A4.6.5.5. Install Indicator								-	-	-	-
<b>*A4.7. F-15E ENGINE INSTRUMENT SYSTEM TR: Applicable airframe TOs</b>											
A4.7.1. Theory of operation								B	B	-	-
A4.7.2. Trace system diagrams								b	-	-	-
A4.7.3. Perform EMD BIT	*B	*						2b	-	-	-
A4.7.4. Isolate malfunctions								-	-	-	-
A4.7.5. Remove system LRU(s)								-	-	-	-
A4.7.6. Install system LRU(s)								-	-	-	-
<b>*A4.8. F-15 PITOT STATIC, HEATER, AND PNEUMATIC INSTRUMENT SYSTEMS TR: Applicable airframe TOs</b>											
A4.8.1. Theory of operation								B	B	-	-
A4.8.2. Trace system diagrams								b	-	-	-
A4.8.3. Perform											
A4.8.3.1. S1, S2, pitot leak checkout	*B	*						3b	-	-	-
A4.8.3.2. Heaters check								-	-	-	-
A4.8.3.3. Standby altimeter/standby airspeed indicators operational checkout								-	-	-	-
A4.8.4. Isolate malfunctions								-	-	-	-
A4.8.5. Remove system LRU(s)								-	-	-	-
A4.8.6. Install system LRU(s)								-	-	-	-
A4.8.7. Adjust standby altimeter								-	-	-	-
<b>*A4.9. F-15 AIR DATA COMPUTER (ADC) SYSTEM TR: Applicable airframe TOs</b>											
A4.9.1. Theory of operation								B	B	-	-

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.9.2. Trace system diagrams								b	-	-	-
A4.9.3. Perform											
A4.9.3.1. Operational checkout	*B	*						3b	-	-	-
A4.9.3.2. BIT	*B	*						3b	-	-	-
A4.9.4. Isolate malfunctions								b	-	-	-
A4.9.5. Remove system LRU(s)											
A4.9.5.1. Air data computer	*B	*						3b	-	-	-
A4.9.5.2. Other LRU(s)								-	-	-	-
A4.9.6. Install system LRU(s)											
A4.9.6.1. Air data computer	*B	*						3b	-	-	-
A4.9.6.2. Other LRU(s)								-	-	-	-
<b>*A4.10. F-15 FLIGHT CONTROL SYSTEMS</b> <b>TR: Applicable airframe TOs</b>											
A4.10.1. Primary											
A4.10.1.1. Theory of operation								B	B	-	-
A4.10.1.2. Trace system diagrams								b	-	-	-
A4.10.1.3. Perform operational checkout	*B	*						-	-	-	-
A4.10.1.4. Isolate malfunctions								-	-	-	-
A4.10.1.5. Remove stick grip	*B	*						-	-	-	-
A4.10.1.6. Install stick grip	*B	*						-	-	-	-
A4.10.2. Trim											
A4.10.2.1. Theory of operation								B	B	-	-
A4.10.2.2. Trace system diagrams								b	-	-	-
A4.10.2.3. Perform operational checkout	*B	*						-	-	-	-
A4.10.2.4. Isolate malfunctions								-	-	-	-
A4.10.2.5. Remove rudder trim switch								-	-	-	-
A4.10.2.6. Install rudder trim switch								-	-	-	-
A4.10.3. F-15A-D Automatic Flight Control System (AFCS)											
A4.10.3.1. Theory of operation								B	B	-	-

B-SHRED

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A4.10.3.2. Trace system diagrams								b	-	-	-
A4.10.3.3. Perform operational checkout	*B	*						3b	-	-	-
A4.10.3.4. Isolate malfunctions								2b	-	-	-
A4.10.3.5. Remove system LRU(s)											
A4.10.3.5.1. Pitch computer								3b	-	-	-
A4.10.3.5.2. Roll/Yaw computer								3b	-	-	-
A4.10.3.5.3. Other LRU(s)								-	-	-	-
A4.10.3.6. Install system LRU(s)											
A4.10.3.6.1. Pitch computer								3b	-	-	-
A4.10.3.6.2. Roll/Yaw computer								3b	-	-	-
A4.10.3.6.3. Other LRU(s)								-	-	-	-
A4.10.4. F-15E Automatic Flight Control System (AFCS)											
A4.10.4.1. Theory of operation								B	B	-	-
A4.10.4.2. Trace system diagrams								b	-	-	-
A4.10.4.3. Perform operational checkout	*B	*						2b	-	-	-
A4.10.4.4. Isolate malfunctions								b	-	-	-
A4.10.4.5. Remove system LRU(s)								-	-	-	-
A4.10.4.6. Install system LRU(s)								-	-	-	-
<b>*A4.11. F-15 ENGINE AIR INTAKE SYSTEM TR: Applicable airframe TOs</b>											
A4.11.1. Theory of operation								B	B	-	-
A4.11.2. Trace system diagrams								b	-	-	-
A4.11.3. Perform											
A4.11.3.1. Operational checkout	*B	*						-	-	-	-
A4.11.3.2. Static BIT checkout	*B	*						3b	-	-	-
A4.11.4. Isolate malfunctions								b	-	-	-
A4.11.5. Remove AIC	*B	*						3b	-	-	-
A4.11.6. Install AIC	*B	*						3b	-	-	-
<b>*A4.12. F-15E AIR DATA PROCESSOR (ADP) TR: Applicable airframe TOs</b>											

B-SHRED

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A4.12.1. Theory of operation								-	B	-	-
A4.12.2. Trace system diagrams								-	-	-	-
A4.12.3. Perform											
A4.12.3.1. Operational checkout								-	-	-	-
A4.12.3.2. BIT checkout								-	-	-	-
A4.12.4. Isolate malfunctions								-	-	-	-
A4.12.5. Remove ADP								-	-	-	-
A4.12.6. Install ADP								-	-	-	-
<b>*A4.13. F-15 STANDARD FLIGHT DATA RECORDER (SFDR)/SIGNAL DATA RECORDER (SDR) SYSTEM TR: Applicable airframe TOs</b>											
A4.13.1. Theory of operation								B	B	-	-
A4.13.2. Trace system diagrams								b	-	-	-
A4.13.3. Perform BIT								-	-	-	-
A4.13.4. Isolate malfunctions								-	-	-	-
A4.13.5. Remove system LRU(s)								-	-	-	-
A4.13.6. Install system LRU(s)								-	-	-	-
A4.13.7. Null transducers								-	-	-	-
<b>*A4.14. F-15 BUILT-IN TEST (BIT) SYSTEM TR: Applicable airframe TOs</b>											
A4.14.1. Theory of operation								B	B	-	-
A4.14.2. Trace system diagrams								b	-	-	-
A4.14.3. Perform operational checkout	*B	*						3b	-	-	-
A4.14.4. Isolate malfunctions								b	-	-	-
A4.14.5. Remove system LRU(s)								-	-	-	-
A4.14.6. Install system LRU(s)								-	-	-	-
<b>*A4.15. A-10 FUEL QUANTITY SYSTEM TR: Applicable airframe TOs</b>											
A4.15.1. Theory of operation								B	B	-	-
A4.15.2. Trace system diagrams								b	-	-	-
A4.15.3. Perform											

B-SHRED

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A4.15.3.1. Indicator checkout	*B	*						3b	-	-	-
A4.15.3.2. Capacitance check								-	-	-	-
A4.15.3.3. Calibration								-	-	-	-
A4.15.3.4. Other checks								-	-	-	-
A4.15.4. Isolate malfunctions								-	-	-	-
A4.15.5. Remove system LRU(s)								-	-	-	-
A4.15.6. Install system LRU(s)								-	-	-	-
<b>*A4.16. A-10 HEADING ATTITUDE REFERENCE SYSTEM (HARS), MAGNETIC AZIMUTH DETECTOR (MAD), STANDBY COMPASS TR: Applicable airframe TOs</b>											
A4.16.1. HARS											
A4.16.1.1. Theory of operation								B	B	-	-
A4.16.1.2. Trace system diagrams								b	-	-	-
A4.16.1.3. Perform operational checkout	*B	*						3b	-	-	-
A4.16.1.4. Isolate malfunctions								-	-	-	-
A4.16.1.5. Remove system LRU(s)								-	-	-	-
A4.16.1.6. Install system LRU(s)								-	-	-	-
A4.16.2. Magnetic Azimuth Detector (MAD)											
A4.16.2.1. Perform alignment								-	-	-	-
A4.16.2.2. Remove MAD								-	-	-	-
A4.16.2.3. Install MAD								-	-	-	-
A4.16.3. Standby Compass											
A4.16.3.1. Perform alignment								-	-	-	-
A4.16.3.2. Remove Standby Compass								-	-	-	-
A4.16.3.3. Install Standby Compass								-	-	-	-
<b>*A4.17. A-10 COUNTING ACCELEROMETER SYSTEM TR: Applicable airframe TOs</b>											
A4.17.1. Theory of operation								-	B	-	-
A4.17.2. Trace system diagrams								-	-	-	-

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.17.3. Perform operational checkout								-	-	-	-
A4.17.4. Isolate malfunctions								-	-	-	-
A4.17.5. Remove system LRU(s)								-	-	-	-
A4.17.6. Install system LRU(s)								-	-	-	-
<b>*A4.18. A-10 HYDRAULIC PRESSURE INDICATING SYSTEM</b>											
<b>TR: Applicable airframe TOs</b>											
A4.18.1. Theory of operation								-	B	-	-
A4.18.2. Trace system diagrams								-	-	-	-
A4.18.3. Perform operational checkout								-	-	-	-
A4.18.4. Isolate malfunctions								-	-	-	-
A4.18.5. Remove system LRU(s)								-	-	-	-
A4.18.6. Install system LRU(s)								-	-	-	-
<b>*A4.19. A-10 ENGINE INSTRUMENTS</b>											
<b>TR: Applicable airframe TOs</b>											
<b>A4.19.1. Oil Pressure Indicating and Warning System</b>											
A4.19.1.1. Theory of operation								B	B	-	-
A4.19.1.2. Trace system diagrams								b	-	-	-
A4.19.1.3. Perform operational checkout	*B	*						-	-	-	-
A4.19.1.4. Isolate malfunctions								-	-	-	-
A4.19.1.5. Remove system LRU(s)								-	-	-	-
A4.19.1.6. Install system LRU(s)								-	-	-	-
<b>A4.19.2. Core Speed Indicating System</b>											
A4.19.2.1. Theory of operation								B	B	-	-
A4.19.2.2. Trace system diagrams								b	-	-	-
A4.19.2.3. Perform operational checkout	*B	*						-	-	-	-
A4.19.2.4. Isolate malfunctions								-	-	-	-
A4.19.2.5. Remove system LRU(s)								-	-	-	-
A4.19.2.6. Install system LRU(s)								-	-	-	-
<b>A4.19.3. Fan Speed Indicating System</b>											
A4.19.3.1. Theory of operation								B	B	-	-

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.19.3.2. Trace system diagrams								b	-	-	-
A4.19.3.3. Perform operational checkout	*B	*						-	-	-	-
A4.19.3.4. Isolate malfunctions								-	-	-	-
A4.19.3.5. Remove system LRU(s)								-	-	-	-
A4.19.3.6. Install system LRU(s)								-	-	-	-
A4.19.4. Interstage Turbine Temperature Indicating System											
A4.19.4.1. Theory of operation								B	B	-	-
A4.19.4.2. Trace system diagrams								b	-	-	-
A4.19.4.3. Perform operational checkout	*B	*						-	-	-	-
A4.19.4.4. Isolate malfunctions								-	-	-	-
A4.19.4.5. Remove system LRU(s)								-	-	-	-
A4.19.4.6. Install system LRU(s)								-	-	-	-
A4.19.5. Fuel Flow Indicating System											
A4.19.5.1. Theory of operation								B	B	-	-
A4.19.5.2. Trace system diagrams								b	-	-	-
A4.19.5.3. Perform operational checkout	*B	*						-	-	-	-
A4.19.5.4. Isolate malfunctions								-	-	-	-
A4.19.5.5. Remove system LRU(s)								-	-	-	-
A4.19.5.6. Install system LRU(s)								-	-	-	-
<b>*A4.20. A-10 FLIGHT INSTRUMENT SYSTEMS TR: Applicable airframe TOs</b>											
A4.20.1. Pitot-Static System											
A4.20.1.1. Theory of operation								B	B	-	-
A4.20.1.2. Trace system diagrams								-	-	-	-
A4.20.1.3. Perform											
A4.20.1.3.1. Perform leak check	*B	*						3b	-	-	-
A4.20.1.3.2. Perform inspection								-	-	-	-
A4.20.1.3.3. Altimeter/Airspeed operational check								3b	-	-	-
A4.20.1.4. Remove pitot probe								-	-	-	-

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.20.1.5. Install pitot probe								-	-	-	-
A4.20.2. Central Air Data Computer (CADC)											
A4.20.2.1. Theory of operation								B	B	-	-
A4.20.2.2. Trace system diagrams								b	-	-	-
A4.20.2.3. Perform operational checkout	*B	*						3b	-	-	-
A4.20.2.4. Isolate malfunctions								-	-	-	-
A4.20.2.5. Remove system LRU(s)								-	-	-	-
A4.20.2.6. Install system LRU(s)								-	-	-	-
A4.20.3. Altimeter											
A4.20.3.1. Theory of operation								B	B	-	-
A4.20.3.2. Trace system diagrams								b	-	-	-
A4.20.3.3. Isolate malfunctions								-	-	-	-
A4.20.3.4. Remove system LRU(s)								-	-	-	-
A4.20.3.5. Install system LRU(s)								-	-	-	-
A4.20.4. Vertical Velocity Indicator											
A4.20.4.1. Theory of operation								B	B	-	-
A4.20.4.2. Trace system diagrams								-	-	-	-
A4.20.4.3. Perform operational checkout	*B	*						3b	-	-	-
A4.20.4.4. Isolate malfunctions								-	-	-	-
A4.20.4.5. Remove system LRU(s)								-	-	-	-
A4.20.4.6. Install system LRU(s)								-	-	-	-
A4.20.5. Airspeed Indicator											
A4.20.5.1. Theory of operation								B	B	-	-
A4.20.5.2. Trace system diagrams								-	-	-	-
A4.20.5.3. Isolate malfunctions								-	-	-	-
A4.20.5.4. Remove system LRU(s)								-	-	-	-
A4.20.5.5. Install system LRU(s)								-	-	-	-
A4.20.6. Attitude Director Indicator (ADI)											
A4.20.6.1. Theory of operation								B	B	-	-

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.20.6.2. Trace system diagrams								-	-	-	-
A4.20.6.3. Perform operational checkout	*B	*						2b	-	-	-
A4.20.6.4. Isolate malfunctions								-	-	-	-
A4.20.6.5. Remove system LRU(s)								-	-	-	-
A4.20.6.6. Install system LRU(s)								-	-	-	-
<b>A4.20.7. Standby Attitude Director Indicator (ADI)</b>											
A4.20.7.1. Theory of operation								B	B	-	-
A4.20.7.2. Trace system diagrams								-	-	-	-
A4.20.7.3. Perform operational checkout	*B	*						2b	-	-	-
A4.20.7.4. Isolate malfunctions								-	-	-	-
A4.20.7.5. Remove system LRU(s)								-	-	-	-
A4.20.7.6. Install system LRU(s)								-	-	-	-
<b>*A4.21. A-10 ANGLE-OF-ATTACK SYSTEM TR: Applicable airframe TOs</b>											
A4.21.1. Theory of operation								B	B	-	-
A4.21.2. Trace system diagrams								b	-	-	-
A4.21.3. Perform operational checkout	*B	*						2b	-	-	-
A4.21.4. Isolate malfunctions								-	-	-	-
A4.21.5. Remove system LRU(s)								-	-	-	-
A4.21.6. Install system LRU(s)								-	-	-	-
<b>*A4.22. A-10 HORIZONTAL SITUATION INDICATOR (HSI) TR: Applicable airframe TOs</b>											
A4.22.1. Theory of operation								B	B	-	-
A4.22.2. Trace system diagrams								-	-	-	-
A4.22.3. Perform operational checkout	*B	*						-	-	-	-
A4.22.4. Isolate malfunctions								-	-	-	-
A4.22.5. Remove system LRU(s)								-	-	-	-
A4.22.6. Install system LRU(s)								-	-	-	-
<b>*A4.23. A-10 FLIGHT DIRECTOR COMPUTER (FDC) TR: Applicable airframe TOs</b>											

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.23.1. Theory of operation								-	B	-	-
A4.23.2. Trace system diagrams								-	-	-	-
A4.23.3. Perform operational checkout								-	-	-	-
A4.23.4. Isolate malfunctions								-	-	-	-
A4.23.5. Remove system LRU(s)								-	-	-	-
A4.23.6. Install system LRU(s)								-	-	-	-
<b>*A4.24. A-10 ACCELERATION INDICATOR (G-METER) TR: Applicable airframe TOs</b>											
A4.24.1. Theory of operation								-	-	-	-
A4.24.2. Trace system diagrams								-	-	-	-
A4.24.3. Perform operational checkout	*B	*						-	-	-	-
A4.24.4. Isolate malfunctions								-	-	-	-
A4.24.5. Remove system LRU(s)								-	-	-	-
A4.24.6. Install system LRU(s)								-	-	-	-
<b>*A4.25. A-10 FLIGHT CONTROL SYSTEMS TR: Applicable airframe TOs</b>											
A4.25.1. Stability Augmentation System (SAS)											
A4.25.1.1. Theory of operation								B	B	-	-
A4.25.1.2. Trace system diagrams								b	-	-	-
A4.25.1.3. Perform operational checkout	*B	*						3b	-	-	-
A4.25.1.4. Isolate malfunctions								-	-	-	-
A4.25.1.5. Remove system LRU(s)								-	-	-	-
A4.25.1.6. Install system LRU(s)								-	-	-	-
A4.25.1.7. Adjust LVDT	*B	*						-	-	-	-
A4.25.2. Alpha Mach System/Stall Warning System (Slats)											
A4.25.2.1. Theory of operation								B	B	-	-
A4.25.2.2. Trace system diagrams								b	-	-	-
A4.25.2.3. Perform operational checkout	*B	*						2b	-	-	-
A4.25.2.4. Isolate malfunctions								-	-	-	-
A4.25.2.5. Remove system LRU(s)								-	-	-	-

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.25.2.6. Install system LRU(s)								-	-	-	-
A4.25.3. Flaps											
A4.25.3.1. Theory of Operation								B	-	-	-
A4.25.3.2. Trace System Diagrams								b	-	-	-
A4.25.3.3. Perform operational checkout								2b	-	-	-
A4.25.3.4. Isolate malfunctions								-	-	-	-
A4.25.3.5. Remove system LRU(s)								-	-	-	-
A4.25.3.6. Install system LRU(s)								-	-	-	-
<b>*A4.26. A-10 VELOCITY, GRAVITY, HEIGHT (VGH) SYSTEM TR: Applicable airframe Tos</b>											
A4.26.1. Theory of operation								B	B	-	-
A4.26.2. Trace system diagrams								b	-	-	-
A4.26.3. Perform operational checkout								-	-	-	-
A4.26.4. Isolate malfunctions								-	-	-	-
A4.26.5. Remove system LRU(s)								-	-	-	-
A4.26.6. Install system LRU(s)								-	-	-	-
<b>*A4.27. A-10 TURBINE ENGINE MONITORING SYSTEM (TEMS) TR: Applicable airframe Tos</b>											
A4.27.1. Theory of operation								-	-	-	-
A4.27.2. Trace system diagrams								-	-	-	-
A4.27.3. Read TEMS data								-	-	-	-
A4.27.4. Isolate malfunctions								-	-	-	-
A4.27.5. Remove system LRU(s)								-	-	-	-
A4.27.6. Install system LRU(s)								-	-	-	-
<b>*A4.28. U-2 FUEL SUMP TANK QUANTITY INDICATING SYSTEM TR: TO U-2S-2-9</b>											
A4.28.1. Theory of operation								-	B	-	-
A4.28.2. Trace system diagrams								-	-	-	-
A4.28.3. Perform operational checkout								-	-	-	-

B-SHRED

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A4.28.4. Isolate malfunctions								-	-	-	-
A4.28.5. Remove system LRU(s)								-	-	-	-
A4.28.6. Install system LRU(s)								-	-	-	-
<b>*A4.29. U-2 FUEL PRESSURE INDICATION SYSTEM TR: TO U-2S-2-9</b>											
A4.29.1. Theory of operation								-	B	-	-
A4.29.2. Trace system diagrams								-	-	-	-
A4.29.3. Perform operational checkout								-	-	-	-
A4.29.4. Isolate malfunctions								-	-	-	-
A4.29.5. Remove system LRU(s)								-	-	-	-
A4.29.6. Install system LRU(s)								-	-	-	-
<b>*A4.30. U-2 FLIGHT DIRECTOR SYSTEM TR: TO U-2S-2-10</b>											
A4.30.1. Theory of operation								-	B	-	-
A4.30.2. Trace system diagrams								-	-	-	-
A4.30.3. Perform operational checkout								-	-	-	-
A4.30.4. Isolate malfunctions								-	-	-	-
A4.30.5. Remove system LRU(s)								-	-	-	-
A4.30.6. Install system LRU(s)								-	-	-	-
<b>*A4.31. U-2 STANDBY COMPASS AND STANDBY ATTITUDE INDICATORS TR: TO U-2S-2-10</b>											
A4.31.1. Theory of operation								-	B	-	-
A4.31.2. Trace system diagrams								-	-	-	-
A4.31.3. Perform operational checkout								-	-	-	-
A4.31.4. Isolate malfunctions								-	-	-	-
A4.31.5. Remove system LRU(s)								-	-	-	-
A4.31.6. Install system LRU(s)								-	-	-	-
<b>*A4.32. U-2 HYDRAULIC PRESSURE INDICATION SYSTEM TR: TO U-2S-2-9</b>											
A4.32.1. Theory of operation								-	B	-	-

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.32.2. Trace system diagrams								-	-	-	-
A4.32.3. Perform operational checkout								-	-	-	-
A4.32.4. Isolate malfunctions								-	-	-	-
A4.32.5. Remove system LRU(s)								-	-	-	-
A4.32.6. Install system LRU(s)								-	-	-	-
<b>*A4.33. U-2 ENGINE INSTRUMENTS TR: TO U-2S-2-4/9</b>											
A4.33.1. Oil Pressure											
A4.33.1.1. Theory of operation								-	B	-	-
A4.33.1.2. Trace system diagrams								-	-	-	-
A4.33.1.3. Perform operational checkout								-	-	-	-
A4.33.1.4. Isolate malfunctions								-	-	-	-
A4.33.1.5. Remove system LRU(s)								-	-	-	-
A4.33.1.6. Install system LRU(s)								-	-	-	-
A4.33.2. Oil Temperature											
A4.33.2.1. Theory of operation								-	B	-	-
A4.33.2.2. Trace system diagrams								-	-	-	-
A4.33.2.3. Perform operational checkout								-	-	-	-
A4.33.2.4. Isolate malfunctions								-	-	-	-
A4.33.2.5. Remove system LRU(s)								-	-	-	-
A4.33.2.6. Install system LRU(s)								-	-	-	-
A4.33.3. Tachometer											
A4.33.3.1. Theory of operation								-	B	-	-
A4.33.3.2. Trace system diagrams								-	-	-	-
A4.33.3.3. Perform operational checkout								-	-	-	-
A4.33.3.4. Isolate malfunctions								-	-	-	-
A4.33.3.5. Remove system LRU(s)								-	-	-	-
A4.33.3.6. Install system LRU(s)								-	-	-	-
A4.33.4. Exhaust Gas Temperature											
A4.33.4.1. Theory of operation								-	B	-	-

B-SHRED

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A4.33.4.2. Trace system diagrams								-	-	-	-
A4.33.4.3. Perform operational checkout								-	-	-	-
A4.33.4.4. Isolate malfunctions								-	-	-	-
A4.33.4.5. Remove system LRU(s)								-	-	-	-
A4.33.4.6. Install system LRU(s)								-	-	-	-
A4.33.5. Fuel Totalizer											
A4.33.5.1. Theory of operation								-	B	-	-
A4.33.5.2. Trace system diagrams								-	-	-	-
A4.33.5.3. Perform operational checkout								-	-	-	-
A4.33.5.4. Isolate malfunctions								-	-	-	-
A4.33.5.5. Remove system LRU(s)								-	-	-	-
A4.33.5.6. Install system LRU(s)								-	-	-	-
A4.33.6. Dual oil quantity indicating system								-	-	-	-
A4.33.6.1.Theory of operation								-	B	-	-
A4.33.6.2. Trace system diagrams								-	-	-	-
A4.33.6.3. Perform operational checkout								-	-	-	-
A4.33.6.4. Isolate malfunctions								-	-	-	-
A4.33.6.5. Remove system LRU(s)								-	-	-	-
A4.33.6.6. Install system LRU(s)								-	-	-	-
<b>*A4.34. PITOT-STATIC SYSTEM NO.1, STANDBY ALTIMETER, STANDBY AIRSPEED INDICATOR TR: TO U-2S-2-9</b>											
A4.34.1. Theory of operation								-	B	-	-
A4.34.2. Trace system diagrams								-	-	-	-
A4.34.3. Perform operational checkout								-	-	-	-
A4.34.4. Isolate malfunctions								-	-	-	-
A4.34.5. Remove system LRU(s)								-	-	-	-
A4.34.6. Install system LRU(s)								-	-	-	-
<b>*A4.35. U-2 AUTOPILOT AIR DATA SYSTEM (APADS) TR: TO U-2S-2-7</b>											

B-SHRED

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A4.35.1. Theory of operation								-	B	-	-
A4.35.2. Trace system diagrams								-	-	-	-
A4.35.3. Perform											
A4.35.3.1. Preflight operational checkout	*							-	-	-	-
A4.35.3.2. APADS I-BIT	*							-	-	-	-
A4.35.3.3. MDI I-BIT	*							-	-	-	-
A4.35.3.4. APADS LRU								-	-	-	-
A4.35.3.5. ADSU/APCU/MDI accuracy checkout	*							-	-	-	-
A4.35.4. Isolate malfunctions								-	-	-	-
A4.35.5. Remove system LRU(s)											
A4.35.5.1. Air Data Sensor Unit (ADSU)								-	-	-	-
A4.35.5.2. Autopilot Computer Unit (APCU)								-	-	-	-
A4.35.5.3. Autopilot Control Panel (APCP)								-	-	-	-
A4.35.5.4. Rate Sensor Unit (RSU)								-	-	-	-
A4.35.5.5. Vibrating Beam Gyro (VYRO)								-	-	-	-
A4.35.5.6. Multi-Display Unit								-	-	-	-
A4.35.5.7. Servo motors	*							-	-	-	-
A4.35.5.8. Capstans	*							-	-	-	-
A4.35.5.9. Follow-up transmitters								-	-	-	-
A4.35.5.10. Trim indicators								-	-	-	-
A4.35.5.11. Fat sensor								-	-	-	-
A4.35.6. Install											
A4.35.6.1. Air Data Sensor Unit (ADSU)								-	-	-	-
A4.35.6.2. Autopilot Computer Unit (APCU)								-	-	-	-
A4.35.6.3. Autopilot Control Panel (APCP)								-	-	-	-
A4.35.6.4. Rate Sensor Unit (RSU)								-	-	-	-
A4.35.6.5. Vibrating Beam Gyro (VYRO)								-	-	-	-
A4.35.6.6. Multi-Display Unit								-	-	-	-
A4.35.6.7. Servo motors	*							-	-	-	-
A4.35.6.8. Capstans	*							-	-	-	-

B-SHRED

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A4.35.6.9. Follow-up transmitters								-	-	-	-
A4.35.6.10. Trim indicators								-	-	-	-
A4.35.6.11. Fat sensor								-	-	-	-
<b>*A4.36. U-2 FLIGHT POSITION INDICATING SYSTEM TR: TO U-2S-2-7</b>											
A4.36.1. Theory of operation								-	-	-	-
A4.36.2. Trace system diagrams								-	-	-	-
A4.36.3. Perform											
A4.36.3.1. Flap position system operational checkout	*							-	-	-	-
A4.36.3.2. Trim operational checkout	*							-	-	-	-
A4.36.4. Isolate malfunctions								-	-	-	-
A4.36.5. Remove system LRU(s)											
A4.36.5.1. Flap position indicator								-	-	-	-
A4.36.5.2. Flap position transmitter								-	-	-	-
A4.36.5.3. Pitch trim indicator								-	-	-	-
A4.36.5.4. Pitch trim transmitter								-	-	-	-
A4.36.6. Install											
A4.36.6.1. Flap position indicator								-	-	-	-
A4.36.6.2. Flap position transmitter								-	-	-	-
A4.36.6.3. Pitch trim indicator								-	-	-	-
A4.36.6.4. Pitch trim transmitter								-	-	-	-
<b>*A4.37. U-2 AIR DATA ENGINE INTERFACE UNIT (ADEIU) TR: TO U-2S-2-9</b>											
A4.37.1. Theory of operation								-	B	-	-
A4.37.2. Trace system diagrams								-	-	-	-
A4.37.3. Perform operational checkout	*B							-	-	-	-
A4.37.4. Inspect ADEIU BIT indicator								-	-	-	-
A4.37.5. Isolate malfunctions								-	-	-	-
A4.37.6. Remove system LRU(s)								-	-	-	-

B-SHRED

2A3X1

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) Cour se	(2) CDC	(1) Course	(2) CDC
A4.37.7. Install system LRU(s)								-	-	-	-

C-SHRED

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
							(1) Course	(2) CDC	(1) Course	(2) CDC	
<b>COMMUNICATION, NAVIGATION AND PENETRATION AIDS SYSTEMS APPRENTICE/JOURNEYMAN/ CRAFTSMAN</b>											
<b>*A5.1. F-15 UHF COMMUNICATION, AUDIO SIGNALS AND SECURE SPEECH SYSTEMS</b> <b>TR: Applicable airframe TOs</b>											
A5.1.1. F-15 UHF Communication System											
A5.1.1.1. Theory of operation								B	B	-	-
A5.1.1.2. Trace system diagrams								b	-	-	-
A5.1.1.3. Perform operational checkout	*C	*						2b	-	-	-
A5.1.1.4. Isolate malfunctions								b	-	-	-
A5.1.1.5. Remove system LRU(s)											
A5.1.1.5.1. UHF/RT								3b	-	-	-
A5.1.1.5.2. Other LRU(s)								-	-	-	-
A5.1.1.6. Install system LRU(s)											
A5.1.1.6.1. UHF/RT								3b	-	-	-
A5.1.1.6.2. Other LRU(s)								-	-	-	-
A5.1.1.7. Load Have-Quick								-	-	-	-
A5.1.2. F-15 Audio Signals System											
A5.1.2.1. Theory of operation								B	B	-	-
A5.1.2.2. Trace system diagrams								b	-	-	-
A5.1.2.3. Perform BIT checkout	*C	*						2b	-	-	-
A5.1.2.4. Isolate malfunctions								b	-	-	-
A5.1.2.5. Remove system LRU(s)								-	-	-	-
A5.1.2.6. Install system LRU(s)								-	-	-	-
A5.1.3. F-15 Secure Speech System											
A5.1.3.1. Theory of operation								B	B	-	-
A5.1.3.2. Trace system diagrams								b	-	-	-
A5.1.3.3. Perform operational checkout	*C	*						2b	-	-	-
A5.1.3.4. Isolate malfunctions								b	-	-	-
A5.1.3.5. Remove system LRU(s)								-	-	-	-

C-SHRED

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	Level
A5.1.3.6. Install system LRU(s)								-	-	-	-
A5.1.3.7. Code/Decode KY-58 unit	*C	*						-	-	-	-
<b>*A5.2. F-15A-B HF COMMUNICATION SYSTEM</b> <b>TR: Applicable airframe TOs</b>											
A5.2.1. Theory of operation								-	-	-	-
A5.2.2. Trace system diagrams								-	-	-	-
A5.2.3. Perform operational checkout								-	-	-	-
A5.2.4. Isolate malfunctions								-	-	-	-
A5.2.5. Remove system LRU(s)								-	-	-	-
A5.2.6. Install system LRU(s)								-	-	-	-
<b>*A5.3. F-15 AUTOMATIC DIRECTION FINDER(ADF) SYSTEM</b> <b>TR: Applicable airframe TOs</b>											
A5.3.1. Theory of operation								B	B	-	-
A5.3.2. Trace system diagrams								b	-	-	-
A5.3.3. Perform											
A5.3.3.1. Operational checkout								-	-	-	-
A5.3.3.2. BIT								-	-	-	-
A5.3.4. Isolate malfunctions								-	-	-	-
A5.3.5. Remove system LRU(s)								-	-	-	-
A5.3.6. Install system LRU(s)								-	-	-	-
<b>*A5.4. F-15 INSTRUMENT LANDING SYSTEM (ILS)</b> <b>TR: Applicable airframe TOs</b>											
A5.4.1. Theory of operation								B	B	-	-
A5.4.2. Trace system diagrams								b	-	-	-
A5.4.3. Perform operational checkout								3b	-	-	-
A5.4.4. Isolate malfunctions								b	-	-	-
A5.4.5. Remove system LRU(s)											
A5.4.5.1. ILS REC								3b	-	-	-
A5.4.5.2. Other LRU(s)								-	-	-	-
A5.4.6. Install system LRU(s)											
A5.4.6.1. ILS REC								3b	-	-	-

C-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A5.4.6.2. Other LRU(s)								-	-	-	-
<b>*A5.5. F-15 TACTICAL AIR NAVIGATION (TACAN) SYSTEM TR: Applicable airframe TOs</b>											
A5.5.1. Theory of operation								B	B	-	-
A5.5.2. Trace system diagrams								b	-	-	-
A5.5.3. Perform											
A5.5.3.1. Operational checkout	*C	*						3b	-	-	-
A5.5.3.2. BIT	*C	*						3b	-	-	-
A5.5.4. Isolate malfunctions								b	-	-	-
A5.5.5. Remove system LRU(s)											
A5.5.5.1. TCN RT								3b	-	-	-
A5.5.5.2. Other LRU(s)								-	-	-	-
A5.5.6. Install system LRU(s)											
A5.5.6.1. TCN RT								3b	-	-	-
A5.5.6.2. Other LRU(s)								-	-	-	-
<b>*A5.6. F-15 IDENTIFICATION FRIEND OR FOE (IFF) SYSTEM TR: Applicable airframe TOs</b>											
A5.6.1. Theory of operation								B	B	-	-
A5.6.2. Trace system diagrams								b	-	-	-
A5.6.3. Perform											
A5.6.3.1. Operational checkout	*C	*						3b	-	-	-
A5.6.3.2. BIT	*C	*						3b	-	-	-
A5.6.4. Isolate malfunctions								2b	-	-	-
A5.6.5. Remove system LRU(s)											
A5.6.5.1. IFF Transponder								3b	-	-	-
A5.6.5.2. Other LRU(s)								-	-	-	-
A5.6.6. Install system LRU(s)											
A5.6.6.1. IFF Transponder								3b	-	-	-
A5.6.6.2. Other LRU(s)								-	-	-	-
A5.6.7. Code/Decode Mode 4								3b	-	-	-

C-SHRED

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	Level
<b>*A5.7. F-15 AIR-TO-AIR IFF INTERROGATION (AAI) SYSTEM TR: Applicable airframe TOs</b>											
A5.7.1. Theory of operation								B	B	-	-
A5.7.2. Trace system diagrams								b	-	-	-
A5.7.3. Perform											
A5.7.3.1. Operational checkout	*C	*						-	-	-	-
A5.7.3.2. BIT	*C	*						3b	-	-	-
A5.7.4. Isolate malfunctions								b	-	-	-
A5.7.5. Remove system LRU(s)											
A5.7.5.1. AAI R/T								3b	-	-	-
A5.7.5.2. Other LRU(s)								-	-	-	-
A5.7.6. Install system LRU(s)											
A5.7.6.1. AAI R/T								3b	-	-	-
A5.7.6.2. Other LRU(s)								-	-	-	-
A5.7.7. Code/Decode Mode 4	*C	*						-	-	-	-
<b>*A5.8. F-15 RADAR WARNING RECEIVER (RWR) SYSTEM AN/ALR-56 TR: Applicable airframe Tos</b>											
A5.8.1. Theory of operation								B	B	-	-
A5.8.2. Trace system diagrams								b	-	-	-
A5.8.3. Perform											
A5.8.3.1. Operational checkout	*C	*						2b	-	-	-
A5.8.3.2. BIT	*C	*						2b	-	-	-
A5.8.4. Isolate malfunctions								b	-	-	-
A5.8.5. Remove system LRU(s)											
A5.8.5.1. Low band receiver processor (LRU-3)								2b	-	-	-
A5.8.5.2. High band receiver (LRU-6)								-	-	-	-
A5.8.5.3. Other LRU(s)								-	-	-	-
A5.8.6. Install system LRU(s)											
A5.8.6.1. Low band receiver processor (LRU-3)								2b	-	-	-
A5.8.6.2. High band receiver (LRU-6)								-	-	-	-
A5.8.6.3. Other LRU(s)								-	-	-	-

C-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A5.8.7. Load/Verify/Reprogram system								-	-	-	-
<b>*A5.9. F-15 ELECTRONIC WARFARE WARNING SYSTEM (EWWS) TR: Applicable airframe TOs</b>											
A5.9.1. Theory of operation								B	-	-	-
A5.9.2. Trace system diagrams								b	-	-	-
A5.9.3. Perform											
A5.9.3.1. Operational checkout		*						-	-	-	-
A5.9.3.2. BIT checkout	*C	*						3b	-	-	-
A5.9.4. Isolate malfunctions								b	-	-	-
A5.9.5. Remove system LRU(s)											
A5.9.5.1. EWWS R/T								3b	-	-	-
A5.9.5.2. Other LRU(s)								-	-	-	-
A5.9.6. Install system LRU(s)											
A5.9.6.1. EWWS R/T								3b	-	-	-
A5.9.6.2. Other LRU(s)								-	-	-	-
<b>*A5.10. F-15 INTERNAL COUNTERMEASURES SET (ICMS) TR: Applicable airframe TOs</b>											
A5.10.1. Theory of operation								B	B	-	-
A5.10.2. Trace system diagrams								b	-	-	-
A5.10.3. Perform											
A5.10.3.1. BIT	*C	*						3b	-	-	-
A5.10.3.2. Operational checkout	*C	*						-	-	-	-
A5.10.3.3. Pressurization checkout								2b	-	-	-
A5.10.3.4. Band 3 BIT Log								-	-	-	-
A5.10.4. Isolate malfunctions								b	-	-	-
A5.10.5. Remove system LRU(s)											
A5.10.5.1. Band 2 RF amplifier	*C	*						3b	-	-	-
A5.10.5.2. Other LRU(s)								-	-	-	-
A5.10.6. Install system LRU(s)											
A5.10.6.1. Band 2 RF amplifier	*C	*						3b	-	-	-

C-SHRED

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
							(1) Course	(2) CDC	(1) Course	(2) CDC	
A5.10.6.2. Other LRU(s)								-	-	-	-
A5.10.7. Load/Verify/Reprogram system								-	-	-	-
<b>*A5.11. F-15 COUNTERMEASURES DISPENSER (CMD) SET TR: Applicable airframe TOs</b>											
A5.11.1. Theory of operation								B	B	-	-
A5.11.2. Trace system diagrams								b	-	-	-
A5.11.3. Perform											
A5.11.3.1. Operational checkout	*C	*						-	-	-	-
A5.11.3.2. BIT	*C	*						2b	-	-	-
A5.11.4. Isolate malfunctions								-	-	-	-
A5.11.5. Remove system LRU(s)								-	-	-	-
A5.11.6. Install system LRU(s)								-	-	-	-
A5.11.7. Load/Verify/Reprogram system								-	-	-	-
<b>*A5.12. F-15 INTERFERENCE BLANKER SYSTEM (IBS) TR: Applicable airframe TOs</b>											
A5.12.1. Theory of operation								B	B	-	-
A5.12.2. Trace system diagrams								b	-	-	-
A5.12.3. Perform BIT	*C	*						-	-	-	-
A5.12.4. Isolate malfunctions								-	-	-	-
A5.12.5. Remove system LRU(s)								-	-	-	-
A5.12.6. Install system LRU(s)								-	-	-	-
<b>*A5.13. F-15 EXTERNAL COUNTERMEASURES SYSTEM(PODS) TR: Applicable airframe TOs</b>											
A5.13.1. Theory of operation								B	B	-	-
A5.13.2. Trace system diagrams								b	-	-	-
A5.13.3. Perform BIT checkout								-	-	-	-
A5.13.4. Isolate malfunctions								-	-	-	-
A5.13.5. Remove system LRU(s)								-	-	-	-
A5.13.6. Install system LRU(s)								-	-	-	-
A5.13.7. Upload/Download POD								-	-	-	-

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2A3X1

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	B	C		
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level		
<b>A5.14. F-15 FIGHTER DATA LINK (FDL)/ JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS) TR: Applicable airframe TOs</b>												
A5.14.1. Theory of operation								-	A	-	-	
A5.14.2. Trace system diagrams								-	-	-	-	
A5.14.3. Perform												
A5.14.3.1. Operational checkout								-	-	-	-	
A5.14.3.2. BIT								-	-	-	-	
A5.14.4. Isolate malfunctions								-	-	-	-	
A5.14.5. Remove LRU								-	-	-	-	
A5.14.6. Install LRU								-	-	-	-	
A5.14.7. Code/Decode cryptovariables								-	-	-	-	
<b>*A5.15. F-15E AVIONICS INTERFACE UNIT (AIU) TR: Applicable airframe TOs</b>												
A5.15.1. Theory of operation								B	B	-	-	
A5.15.2. Trace system diagrams								b	-	-	-	
A5.15.3. Perform BIT check	*C	*						2b	-	-	-	
A5.15.4. Isolate malfunctions								b	-	-	-	
A5.15.5. Remove system LRU(s)								-	-	-	-	
A5.15.6. Install system LRU(s)								-	-	-	-	
A5.15.7. Load/Verify/Reprogram system								-	-	-	-	
A5.15.8. Hand controller												
A5.15.8.1. Perform operational checkout	*C	*						2b	-	-	-	
A5.15.8.2. Remove system LRU(s)								-	-	-	-	
A5.15.8.3. Install system LRU(s)								-	-	-	-	
<b>*A5.16. F-15E UPFRONT CONTROL (UFC) TR: Applicable airframe TOs</b>												
A5.16.1. Theory of operation								B	B	-	-	
A5.16.2. Trace system diagrams								b	-	-	-	
A5.16.3. Perform BIT	*C	*						2b	-	-	-	
A5.16.4. Isolate malfunctions								b	-	-	-	
A5.16.5. Remove system LRU(s)								-	-	-	-	

C-SHRED

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
								(1) Course	(2) CDC	(1) Course	(2) CDC
A5.16.6. Install system LRU(s)								-	-	-	-
<b>*A5.17. F-15E DATA LINK PODS</b> <b>TR: Applicable airframe TOs</b>											
A5.17.1. Theory of operation								B	B	-	-
A5.17.2. Trace system diagrams								b	-	-	-
A5.17.3. Perform											
A5.17.3.1. Operational checkout								-	-	-	-
A5.17.3.2. BIT								-	-	-	-
A5.17.4. Isolate malfunctions								-	-	-	-
A5.17.5. Upload/Download POD								-	-	-	-
<b>*A5.18. A-10 VHF COMMUNICATION SYSTEMS</b> <b>TR: Applicable airframe TOs</b>											
A5.18.1. A-10 VHF AM Radio											
A5.18.1.1. Theory of operation								B	B	-	-
A5.18.1.2. Trace system diagrams								b	-	-	-
A5.18.1.3. Perform operational check								2b	-	-	-
A5.18.1.4. Isolate malfunctions								-	-	-	-
A5.18.1.5. Remove system LRU(s)								-	-	-	-
A5.18.1.6. Install system LRU(s)								-	-	-	-
A5.18.2. A-10 VHF FM Radio											
A5.18.2.1. Theory of operation								B	B	-	-
A5.18.2.2. Trace system diagrams								b	-	-	-
A5.18.2.3. Perform operational check								2b	-	-	-
A5.18.2.4. Isolate malfunctions								-	-	-	-
A5.18.2.5. Remove system LRU(s)								-	-	-	-
A5.18.2.6. Install system LRU(s)								-	-	-	-
<b>*A5.19. A-10 UHF/ADF COMMUNICATION SYSTEM</b> <b>TR: Applicable airframe TOs</b>											
A5.19.1. Theory of operation								B	B	-	-
A5.19.2. Trace system diagrams								b	-	-	-
A5.19.3. Perform operational check	*C	*						2b	-	-	-

C-SHRED

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A5.19.4. Isolate malfunctions								b	-	-	-
A5.19.5. Remove system LRU(s)								-	-	-	-
A5.18.6. Install system LRU(s)								-	-	-	-
A5.19.7. Load Have-Quick								-	-	-	-
<b>*A5.20. A-10 INTERPHONE TR: Applicable airframe TOs</b>											
A5.20.1. Theory of operation								B	B	-	-
A5.20.2. Trace system diagrams								b	-	-	-
A5.20.3. Perform operational check								-	-	-	-
A5.20.4. Isolate malfunctions								-	-	-	-
A5.20.5. Remove system LRU(s)								-	-	-	-
A5.20.6. Install system LRU(s)								-	-	-	-
<b>*A5.21. A-10 SECURE VOICE TR: Applicable airframe TOs</b>											
A5.21.1. Theory of operation								B	B	-	-
A5.21.2. Trace system diagrams								b	-	-	-
A5.21.3. Perform operational check	*C	*						3b	-	-	-
A5.21.4. Isolate malfunctions								-	-	-	-
A5.21.5. Remove system LRU(s)								-	-	-	-
A5.21.6. Install system LRU(s)								-	-	-	-
A5.21.7. Code/Decode KY unit								-	-	-	-
<b>*A5.22. A-10 VHF HOMING SYSTEM TR: Applicable airframe TOs</b>											
A5.22.1. Theory of operation								-	B	-	-
A5.22.2. Trace system diagrams								-	-	-	-
A5.22.3. Perform operational checkout								-	-	-	-
A5.22.4. Isolate malfunctions								-	-	-	-
A5.22.5. Remove system LRU(s)								-	-	-	-
A5.22.6. Install system LRU(s)								-	-	-	-
<b>*A5.23. A-10 INSTRUMENT LANDING SYSTEM (ILS) TR: Applicable airframe TOs</b>											
A5.23.1. Theory of operation								B	B	-	-

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2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A5.23.2. Trace system diagrams								b	-	-	-
A5.23.3. Perform operational checkout								3b	-	-	-
A5.23.4. Isolate malfunctions								b	-	-	-
A5.23.5. Remove system LRU(s)								-	-	-	-
A5.23.6. Install system LRU(s)								-	-	-	-
<b>*A5.24. A-10 TACTICAL AIR NAVIGATION (TACAN) SYSTEM TR: Applicable airframe TOs</b>											
A5.24.1. Theory of operation								B	B	-	-
A5.24.2. Trace system diagrams								b	-	-	-
A5.24.3. Perform operational checkout								2b	-	-	-
A5.24.4. Isolate malfunctions								b	-	-	-
A5.24.5. Remove system LRU(s)								-	-	-	-
A5.24.6. Install system LRU(s)								-	-	-	-
<b>*A5.25. A-10 IDENTIFICATION FRIEND OR FOE (IFF) and MODE IV SYSTEM TR: Applicable airframe TOs</b>											
A5.25.1. Theory of operation								B	B	-	-
A5.25.2. Trace system diagrams								b	-	-	-
A5.25.3. Perform operational checkout	*C	*						3b	-	-	-
A5.25.4. Isolate malfunctions								b	-	-	-
A5.25.5. Remove system LRU(s)								-	-	-	-
A5.25.6. Install system LRU(s)								-	-	-	-
A5.25.7. Code/Decode Mode 4								-	-	-	-
<b>*A5.26. A-10 LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM TR: Applicable airframe TOs</b>											
A5.26.1. Theory of operation								-	B	-	-
A5.26.2. Trace system diagrams								-	-	-	-
A5.26.3. Perform operational checkout	*C	*						-	-	-	-
A5.26.4. Isolate malfunctions								-	-	-	-
A5.26.5. Remove system LRU(s)								-	-	-	-
A5.26.6. Install system LRU(s)								-	-	-	-

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2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	Level
<b>*A5.27. A-10 RADAR WARNING RECEIVER (RWR) ALR-69 SYSTEM TR: Applicable airframe TOs</b>											
A5.27.1. Theory of operation								B	B	-	-
A5.27.2. Trace system diagrams								b	-	-	-
A5.27.3. Perform											
A5.27.3.1. Operational checkout	*C	*						2b	-	-	-
A5.27.3.2. BIT	*C	*						2b	-	-	-
A5.27.4. Isolate malfunctions								b	-	-	-
A5.27.5. Remove system LRU(s)								-	-	-	-
A5.27.6. Install system LRU(s)								-	-	-	-
A5.27.7. Load/Verify/Reprogram system	*C	*						2b	-	-	-
<b>*A5.28. A-10 COUNTERMEASURES DISPENSER ALE-40/47 TR: Applicable airframe TOs</b>											
A5.28.1. Theory of operation								B	B	-	-
A5.28.2. Trace system diagrams								b	-	-	-
A5.28.3. Perform Operational checkout								2b	-	-	-
A5.28.4. Isolate malfunctions								b	-	-	-
A5.28.5. Remove											
A5.28.5.1. Wheel well sequencer								2b	-	-	-
A5.28.5.2. Wing tip sequencer								2b	-	-	-
A5.28.5.3. EMI filter								2b	-	-	-
A5.28.5.4. Other system LRU(s)								-	-	-	-
A5.28.6. Install											
A5.28.6.1. Wheel well sequencer								2b	-	-	-
A5.28.6.2. Wing tip sequencer								2b	-	-	-
A5.28.6.3. EMI filter								2b	-	-	-
A5.28.6.4. Other system LRU(s)								-	-	-	-
<b>*A5.29. A-10 ELECTRONIC COUNTERMEASURES SYSTEM-PODS TR: Applicable airframe TOs</b>											
A5.29.1. Theory of operation								A	B	-	-
A5.29.2. Trace system diagrams								b	-	-	-

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2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A5.29.3. Perform											
A5.29.3.1. Operational checkout	*C	*						-	-	-	-
A5.29.3.2. BIT	*C	*						-	-	-	-
A5.29.4. Isolate malfunctions								-	-	-	-
A5.29.5. Remove system LRU(s)								-	-	-	-
A5.29.6. Install system LRU(s)								-	-	-	-
A5.29.7. Upload/Download POD								-	-	-	-
A5.29.8. Load/Verify/Reprogram POD								-	-	-	-
<b>*A5.30. A-10 COUNTERMEASURES SET (CMS) AN/ALQ-213 TR: Applicable airframe TOs</b>											
A5.30.1. Theory of operation								B	B	-	-
A5.30.2. Trace system diagrams								b	-	-	-
A5.30.3. Perform											
A5.30.3.1. Operational checkout	*C	*						2b	-	-	-
A5.30.3.2. BIT	*C	*						2b	-	-	-
A5.30.4. Isolate malfunctions								-	-	-	-
A5.30.5. Remove system LRU(s)								-	-	-	-
A5.30.6. Install system LRU(s)								-	-	-	-
A5.30.7. Load/Verify/Reprogram system	*C	*						-	-	-	-
<b>*A5.31. U-2 ARC-164 UHF COMMUNICATION SYSTEM TR: TO U-2S-2-10</b>											
A5.31.1. Theory of operation								-	B	-	-
A5.31.2. Trace system diagrams								-	-	-	-
A5.31.3. Perform operational checkout								-	-	-	-
A5.31.4. Isolate malfunctions								-	-	-	-
A5.31.5. Remove system LRU(s)								-	-	-	-
A5.31.6. Install system LRU(s)								-	-	-	-
A5.31.7. Load Have-Quick								-	-	-	-
<b>*A5.32. U-2 INTERPHONE TR: TO U-2S-2-10</b>											
A5.32.1. Theory of operation								-	B	-	-

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2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
A5.32.2. Trace system diagrams								-	-	-	-
A5.32.3. Perform operational checkouts	*C	*						-	-	-	-
A5.32.4. Isolate malfunctions								-	-	-	-
A5.32.5. Remove system LRU(s)											
A5.32.5.1. Intercommunication station								-	-	-	-
A5.32.5.2. Transmit select panel								-	-	-	-
A5.32.5.3. Communication select panel								-	-	-	-
A5.32.5.4. Other system LRU(s)											
A5.32.6. Install system LRU(s)											
A5.32.6.1. Intercommunication station								-	-	-	-
A5.32.6.2. Transmit select panel								-	-	-	-
A5.32.6.3. Communication select panel								-	-	-	-
A5.32.6.4. Other system LRU(s)											
<b>*A5.33. U-2 SECURE VOICE SYSTEM TR: TO U-2S-2-10</b>											
A5.33.1. Theory of operation								-	B	-	-
A5.33.2. Trace system diagrams								-	-	-	-
A5.33.3. Perform operational checkout	*C	*						-	-	-	-
A5.33.4. Isolate malfunctions		*						-	-	-	-
A5.33.5. Remove system LRU(s)											
A5.33.5.1. Secure voice control panel								-	-	-	-
A5.33.5.2. KY-58 unit and adapter assembly								-	-	-	-
A5.33.6. Install system LRU(s)											
A5.33.6.1. Secure voice control panel								-	-	-	-
A5.33.6.2. KY-58 unit and adapter assembly								-	-	-	-
A5.33.7. Code/Decode KY unit	*C	*						-	-	-	-
<b>A5.34. U-2 ARC-186 VHF RADIO SYSTEM TR: TO U-2S-2-10</b>											
A5.34.1. Theory of operation								-	B	-	-
A5.34.2. Trace system diagrams								-	-	-	-
A5.34.3. Perform operational checkout	*C	*						-	-	-	-

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2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
								(1) Course	(2) CDC	(1) Course	(2) CDC
A5.34.4. Isolate Malfunctions		*						-	-	-	-
A5.34.5. Remove system LRU(s)											
A5.34.5.1. Control panel								-	-	-	-
A5.34.5.2. Receiver/Transmitter								-	-	-	-
A5.34.5.3. Antenna assembly								-	-	-	-
A5.34.5.4. Other system LRU(s)								-	-	-	-
A5.34.6. Install system LRU(s)											
A5.34.6.1. Control panel								-	-	-	-
A5.34.6.2. Receiver/Transmitter								-	-	-	-
A5.34.6.3. Antenna assembly								-	-	-	-
A5.34.6.4. Other system LRU(s)								-	-	-	-
<b>*A5.35. U-2 718 HF RADIO SYSTEM TR: TO U-2S-2-10</b>											
A5.35.1. Theory of operation								-	B	-	-
A5.35.2. Trace system diagrams								-	-	-	-
A5.35.3. Perform operational checkout	*C	*						-	-	-	-
A5.35.4. Troubleshoot		*						-	-	-	-
A5.35.5. Remove system LRU(s)											
A5.35.5.1. Control box								-	-	-	-
A5.35.5.2. Receiver/Exciter								-	-	-	-
A5.35.5.3. PA coupler								-	-	-	-
A5.35.5.4. Antenna and feedline assembly								-	-	-	-
A5.35.5.5. Other system LRU(s)								-	-	-	-
A5.35.6. Install system LRU(s)											
A5.35.6.1. Control box								-	-	-	-
A5.35.6.2. Receiver/Exciter								-	-	-	-
A5.35.6.3. PA coupler								-	-	-	-
A5.35.6.4. Antenna and feedline assembly								-	-	-	-
A5.35.6.5. Other system LRU(s)								-	-	-	-
<b>*A5.36. U-2 DIRECTION FINDING SYSTEM TR: TO U-2S-2-10</b>											
A5.36.1. Theory of operation								-	B	-	-

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2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
A5.36.2. Trace system diagrams								-	-	-	-
A5.36.3. Perform operational checkout								-	-	-	-
A5.36.4. Isolate malfunctions								-	-	-	-
A5.36.5. Remove system LRU(s)								-	-	-	-
A5.36.6. Install system LRU(s)								-	-	-	-
<b>*A5.37. U-2 INSTRUMENT LANDING SYSTEM (ILS) TR: TO U-2S-2-10</b>											
A5.37.1. Theory of operation								-	B	-	-
A5.37.2. Trace system diagrams								-	-	-	-
A5.37.3. Perform operational checkout								-	-	-	-
A5.37.4. Isolate malfunctions								-	-	-	-
A5.37.5. Remove system LRU(s)								-	-	-	-
A5.37.6. Install system LRU(s)								-	-	-	-
<b>*A5.38. U-2 TACTICAL AIR NAVIGATION SYSTEM (TACAN) TR: TO U-2S-2-10</b>											
A5.38.1. Theory of operation								-	B	-	-
A5.38.2. Trace system diagrams								-	-	-	-
A5.38.3. Perform operational checkout								-	-	-	-
A5.38.4. Isolate malfunctions								-	-	-	-
A5.38.5. Remove system LRU(s)								-	-	-	-
A5.38.6. Install system LRU(s)								-	-	-	-
<b>*A5.39. U-2 IDENTIFICATION FRIEND OR FOE (IFF) SYSTEM TR: TO U-2S-2-10</b>											
A5.39.1. Theory of operation								-	B	-	-
A5.39.2. Trace system diagrams								-	-	-	-
A5.39.3. Perform operational checkout								-	-	-	-
A5.39.4. Isolate malfunctions								-	-	-	-
A5.39.5. Remove system LRU(s)								-	-	-	-
A5.39.6. Install system LRU(s)								-	-	-	-
A5.39.7. Code/Decode Mode 4								-	-	-	-

C-SHRED

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC	
<b>*A5.40. U-2 ELECTRONIC WARFARE SUITE (EWS) 56-1 TR: TO U-2S-2-12</b>												
A5.40.1. Theory of operation								-	B	-	-	
A5.40.2. Trace system diagrams								-	-	-	-	
A5.40.3. Perform												
A5.40.3.1. Operational checkout								-	-	-	-	
A5.40.3.2. BIT								-	-	-	-	
A5.40.4. Isolate malfunctions								-	-	-	-	
A5.40.5. Remove system LRU(s)								-	-	-	-	
A5.40.6. Install system LRU(s)								-	-	-	-	

# ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level	5 Skill Level	7 Skill Level	
								(1) Course	(2) CDC	(1) Course	(2) CDC
<b>"ELECTRONIC FUNDAMENTALS/APPLICATIONS"</b>											
NOTE 1: This attachment identifies the Air Force standardized STS electronic fundamentals and applications entries.											
NOTE 2: Only those electronic fundamentals and applications items in column 4 that have a training code in the 3 or 7 level or CDC columns are trained to that specified level. Items that are "/X" will be incorporated into applicable courses when resources become available. Items that are "-/" will not be taught in the course.											
NOTE 3: Users may annotate additional devices or circuits not identified by this attachment that are specific to their AFSC IAW AFI 36-2201. Users may annotate lists of TRs to identify current references pending STS revision.											
NOTE 4: Items in column 1, marked with a single asterisk (*) are the task/knowledge that are trained in resident wartime courses to the proficiency levels listed in column 4a. Items with a dash (-) in column 4a are not trained in the resident wartime courses.											
* A9.1.	BASIC TERMS TR: TOs 31-1-141-2 and 31-1-141-5										
A9.1.1.	Metric notation							B	-	-	-
A9.1.2.	DC terms							B	B	-	-
A9.1.3.	AC terms							B	B	-	-
* A9.2.	BASIC CIRCUITS TR: TO 31-1-141-2										
A9.2.1.	Theory of operation							B	B	-	-
A9.2.2.	Troubleshoot circuits							2b	-	-	-
* A9.3.	BASIC CIRCUIT CALCULATIONS TR: TO 31-1-141-5										
A9.3.1.	DC							B	-	-	-
A9.3.2.	AC							B	-	-	-
* A9.4.	RESISTORS TR: TO 31-1-141-2										
A9.4.1.	Theory of operation							B	-	-	-
A9.4.2.	Isolate faulty resistors							2b	-	-	-
A9.4.3.	Color code							B	-	-	-
* A9.5.	RELAYS TR: TOs 31-1-141-2 and 31-1-141-3										
A9.5.1.	Theory of operation							B	-	-	-
A9.5.2.	Isolate faulty relays							2b	-	-	-
* A9.6.	INDUCTORS TR: TOs 31-1-141-2, 31-1-141-5 and 31-1-141-15										

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.6.1.	Theory of operation							B	-	-	-
A9.6.2.	Isolate faulty inductors							-	-	-	-
A9.6.3.	Calculations							-	-	-	-
* A9.7.	CAPACITORS TR: TOs 31-1-141-2, 31-1-141-5 and 31-1-141-15										
A9.7.1.	Theory of operation							B	-	-	-
A9.7.2.	Isolate faulty capacitors							-	-	-	-
A9.7.3.	Calculations							-	-	-	-
A9.7.4.	Color code							-	-	-	-
* A9.8.	TRANSFORMERS TR: TOs 31-1-141-2, 31-1-141-5 and 31-1-141-15										
A9.8.1.	Theory of operation							B	-	-	-
A9.8.2.	Isolate faulty transformers							-	-	-	-
A9.8.3.	Calculations							-	-	-	-
* A9.9.	THREE PHASE TRANSFORMERS TRs: TOs 31-1-141-2 and 31-1-141-15										
A9.9.1.	Theory of operation							B	-	-	-
A9.9.2.	Isolate faulty three phase transformers							-	-	-	-
* A9.10.	DC MOTORS TR: TOs 31-1-141-2 and 31-1-141-9										
A9.10.1.	Theory of operation							B	-	-	-
A9.10.2.	Isolate faulty DC motors							-	-	-	-
A9.10.3.	Troubleshoot DC motors							-	-	-	-
* A9.11.	AC MOTORS TR: TOs 31-1-141-2 and 31-1-141-9										
A9.11.1.	Theory of operation							B	-	-	-

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.11.2.	Isolate faulty AC motors							-	-	-	-
A9.11.3.	Troubleshoot AC motors							-	-	-	-
* A9.12.	DC GENERATORS TR: TOs 31-1-141-2, 31-1-141-9 and 31-1-141-13										
A9.12.1.	Theory of operation							B	-	-	-
A9.12.2.	Isolate faulty DC generators							-	-	-	-
A9.12.3.	Troubleshoot DC generators							-	-	-	-
* A9.13.	AC GENERATORS TR: TOs 31-1-141-2, 31-1-141-9 and 31-1-141-13										
A9.13.1.	Theory of operation							B	-	-	-
A9.13.2.	Isolate faulty AC generators							-	-	-	-
A9.13.3.	Troubleshoot AC generators							-	-	-	-
A9.14.	ALTERNATORS TR: TOs 31-1-141-2 and 31-1-141-9										
A9.14.1.	Theory of operation							-	-	-	-
A9.14.2.	Isolate faulty alternators							-	-	-	-
A9.14.3.	Troubleshoot alternators							-	-	-	-
* A9.15.	SYNCHRO/SERVOS TR: TOs 31-1-141-2 and 31-1-141-9										
A9.15.1.	Theory of operation							B	B	-	-
A9.15.2.	Isolate faulty synchro/servos							-	-	-	-
A9.15.3.	Troubleshoot synchro/servos							2b	-	-	-
A9.16.	CHOPPERS (SYNCHRONOUS VIBRATORS) TR: TO 31-1-141-2										
A9.16.1.	Theory of operation							-	-	-	-
A9.16.1.1.	Isolate faulty choppers							-	-	-	-
* A9.17.	TRANSDUCERS TR: TOs 31-1-141-3 and 31-1-141-13										

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.17.1.	Theory of operation							B	-	-	-
A9.17.2.	Isolate faulty transducers							-	-	-	-
A9.18.	METER MOVEMENTS TR: TOs 31-1-141-2, 31-1-141-7 and 31-1-141-14C										
A9.18.1.	Theory of operation							-	-	-	-
A9.18.2.	Isolate faulty meter movements							-	-	-	-
* A9.19.	SOLID STATE DIODES TR: TOs 31-1-141-4 and 31-1-141-15										
A9.19.1.	Theory of operation							B	-	-	-
A9.19.2.	Isolate faulty solid state diodes							2b	-	-	-
A9.19.3.	Specifications							-	-	-	-
A9.19.4.	Color code							-	-	-	-
A9.20.	BIPOLAR JUNCTION TRANSISTORS TR: TO 31-1-141-4										
A9.20.1.	Theory of operation							-	-	-	-
A9.20.2.	Isolate faulty transistors							-	-	-	-
A9.20.3.	Specifications							-	-	-	-
* A9.21.	INTEGRATED CIRCUITS TR: TO 31-1-141-4										
A9.21.1.	Familiarization							A	-	-	-
A9.21.2.	Isolate faulty integrated circuits							-	-	-	-
A9.21.3.	Specifications							-	-	-	-
* A9.22.	SOLID STATE SPECIAL PURPOSE DEVICES TR: TO 31-1-141-4										
A9.22.1.	Theory of operation										
A9.22.1.1.	SCR							-	-	-	-
A9.22.1.2.	Zener Diode							A	-	-	-
A9.22.1.3.	Tunnel Diode							-	-	-	-

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.22.1.4. LED								A	-	-	-
A9.22.1.5. LCD								A	-	-	-
A9.22.1.6. UJT								-	-	-	-
A9.22.1.7. JFET								-	-	-	-
A9.22.1.8. MOSFET								-	-	-	-
A9.22.2. Isolate faulty special purpose devices								-	-	-	-
A9.23. ELECTRON TUBES TR: TOs 31-1-141-1, 31-1-141-3 and 31-1-141-9											
A9.23.1. Theory of operation								-	-	-	-
A9.23.2. Isolate faulty tubes								-	-	-	-
A9.23.3. Specifications								-	-	-	-
* A9.24. CATHODE RAY TUBES (CRT) TR: TOs 31-1-141-1 and 31-1-141-3											
A9.24.1. Theory of operation								B	-	-	-
A9.24.2. Isolate faulty CRTs								-	-	-	-
* A9.25. SOLDER/DESOLDER TR: TOs 00-25-234 and 1-1A-14											
A9.25.1. Terminal connections								2b	-	-	-
A9.25.2. PC Boards								-	-	-	-
A9.25.3. Multipin connectors								2b	-	-	-
* A9.26. ASSEMBLE SOLDERLESS CONNECTORS TR: TO 1-1A-14											
A9.26.1. Crimp								2b	B	-	-
A9.26.2. Coaxial								2b	B	-	-
A9.26.3. Multipin								2b	B	-	-
* A9.27. USE TEST EQUIPMENT TR: TOs 31-1-141-1, 31-1-141-7, 31-1-141-8, 31-1-141-9 and 31-1-141-10											

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.27.1.	Multimeter, analog							2b	-	-	-
A9.27.2.	Oscilloscope							2b	-	-	-
A9.27.3.	Signal generator							1a	-	-	-
A9.27.4.	Frequency counter							-	-	-	-
A9.27.5.	Spectrum analyzer							2b	-	-	-
A9.27.6.	Field strength tester							-	-	-	-
A9.27.7.	Multimeter, digital							2b	-	-	-
A9.27.8.	Digital logic probe							-	-	-	-
A9.27.9.	Capacitor tester							-	-	-	-
A9.27.10.	Capacitor substitution box							-	-	-	-
A9.27.11.	DC restorer							-	-	-	-
A9.27.12.	Logic current tracer							-	-	-	-
A9.27.13.	Tube tester							-	-	-	-
A9.27.14.	Logic pulser							-	-	-	-
A9.27.15.	Logic analyzer							-	-	-	-
A9.27.16.	Signature analyzer							-	-	-	-
A9.27.17.	Reflectometer							2b	B	-	-
* A9.28.	TRANSISTOR AMPLIFIER CIRCUITS TR: TOs 31-1-141-1 and 31-1-141-4										
A9.28.1.	Theory of operation										
A9.28.1.1.	Amplifier circuits							-	-	-	-
A9.28.1.2.	Stabilization circuits							-	-	-	-
A9.28.1.3.	Coupling circuits							-	-	-	-
A9.28.2.	Isolate faulty transistor amplifier circuits							-	-	-	-
A9.28.3.	Troubleshoot transistor amplifier circuits							-	-	-	-

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.29. ELECTRON TUBE AMPLIFIERS TR: TO 31-1-141-3											
A9.29.1. Theory of operation								-	-	-	-
A9.29.2. Isolate faulty tube amplifiers								-	-	-	-
A9.29.3. Troubleshoot tube circuits								-	-	-	-
A9.30. OPERATIONAL AMPLIFIER TR: TO 31-1-141-4											
A9.30.1. Theory of operation								-	-	-	-
A9.31. MAGNETIC AMPLIFIER TR: TO 31-1-141-4											
A9.31.1. Theory of operation								-	-	-	-
A9.31.2. Isolate faulty magnetic amplifiers								-	-	-	-
A9.31.3. Troubleshoot magnetic amplifier circuits								-	-	-	-
A9.32. SATURABLE REACTORS TR: TO 31-1-141-4											
A9.32.1. Theory of operation								-	-	-	-
A9.32.2. Isolate faulty saturable reactors								-	-	-	-
A9.32.3. Troubleshoot saturable reactor circuits								-	-	-	-
* A9.33. POWER SUPPLY CIRCUITS TR: TOs 31-1-141-3, 31-1-141-4, 31-1-141-9 and 31-1-141-15											
A9.33.1. Theory of operation											
A9.33.1.1. Rectifiers											
A9.33.1.1.1. Half-wave								-	-	-	-
A9.33.1.1.2. Full-wave								-	-	-	-
A9.33.1.1.3. Full-wave bridge								-	-	-	-
A9.33.1.2. Filters											
A9.33.1.2.1. Capacitive								-	-	-	-
A9.33.1.2.2. Inductive								-	-	-	-
A9.33.1.2.3. L Section								-	-	-	-

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.33.1.2.4. Pi Section								-	-	-	-
A9.33.2. Isolate faulty power supplies								-	-	-	-
A9.33.3. Troubleshoot power supply circuits								-	-	-	-
A9.34. VOLTAGE REGULATORS TR: TOs 31-1-141-3 and 31-1-141-4											
A9.34.1. Theory of operation											
A9.34.1.1. Shunt								-	-	-	-
A9.34.1.2. Series – EVR								-	-	-	-
A9.34.1.3. IC – EVR								-	-	-	-
A9.34.2. Isolate faulty voltage regulators								-	-	-	-
A9.34.3. Troubleshoot voltage regulator circuits								-	-	-	-
A9.35. RESISTIVE/CAPACITIVE/ INDUCTIVE (RCL) CIRCUITS TR: TOs 31-1-141-2 and 31-1-141-5											
A9.35.1. Basic operation								-	-	-	-
A9.35.2. Resonant operation								-	-	-	-
A9.35.3. Troubleshoot RCL circuits								-	-	-	-
A9.35.4. Calculations								-	-	-	-
A9.36. FREQUENCY SENSITIVE FILTERS TR: TO 31-1-141-2											
A9.36.1. Theory of operation								-	-	-	-
A9.36.2. Isolate faulty frequency sensitive filters								-	-	-	-
A9.36.3. Troubleshoot frequency sensitive filter circuits								-	-	-	-
A9.36.4. Calculations								-	-	-	-
A9.37. WAVE GENERATING CIRCUIT TR: TOs 31-1-141-3, 31-1-141-4 and 31-1-141-10											
A9.37.1. Theory of operation											

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.37.1.1. Oscillators											
A9.37.1.1.1. LC								-	-	-	-
A9.37.1.1.2. RC								-	-	-	-
A9.37.1.1.3. Crystal								-	-	-	-
A9.37.1.2. Multivibrators											
A9.37.1.2.1. Astable								-	-	-	-
A9.37.1.2.2. Bistable								-	-	-	-
A9.37.1.2.3. Monostable								-	-	-	-
A9.37.1.3. Waveshaping Circuits											
A9.37.1.3.1. Schmitt Trigger								-	-	-	-
A9.37.1.3.2. Sawtooth								-	-	-	-
A9.37.1.3.3. RC integration and differentiation								-	-	-	-
A9.37.2. Isolate faulty wave generating circuits								-	-	-	-
A9.37.3. Troubleshoot wave generating circuits								-	-	-	-
A9.38. LIMITER CIRCUITS TR: TO 31-1-141-4											
A9.38.1. Theory of Operation											
A9.38.1.1. Diode								-	-	-	-
A9.38.1.2. Zener diode								-	-	-	-
A9.38.1.3. Transistor								-	-	-	-
A9.38.2. Isolate faulty limiters								-	-	-	-
A9.38.3. Troubleshoot limiter circuits								-	-	-	-
A9.39. CLAMPER CIRCUITS TR: TO 31-1-141-4											
A9.39.1. Theory of operation								-	-	-	-
A9.39.2. Isolate faulty clampers								-	-	-	-

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.39.3.	Troubleshoot clamper circuits							-	-	-	-
* A9.40.	DIGITAL NUMBERING SYSTEMS TR: TO 31-1-141-5										
A9.40.1.	Conversions										
A9.40.1.1.	Binary							B	B	-	-
A9.40.1.2.	Octal							B	B	-	-
A9.40.1.3.	Hexadecimal							B	B	-	-
A9.40.2.	Math operations										
A9.40.2.1.	Binary							-	-	-	-
A9.40.2.2.	Octal							-	-	-	-
A9.40.2.3.	Hexadecimal							-	-	-	-
A9.40.3.	Binary Code Systems							-	-	-	-
* A9.41.	DIGITAL LOGIC FUNCTIONS TR: TOs 31-1-141-4 and 31-1-141-5										
A9.41.1.	Theory of operation										
A9.41.1.1.	Main logic gates							B	-	-	-
A9.41.1.2.	Flip flops							-	-	-	-
A9.41.2.	Isolate faulty logic function circuits							-	-	-	-
A9.41.3.	Troubleshoot logic circuits										
A9.41.3.1.	Main logic gates							-	-	-	-
A9.41.3.2.	Flip flops							-	-	-	-
A9.41.4.	Logic families										
A9.41.4.1.	TTL							-	-	-	-
A9.41.4.2.	CMOS							-	-	-	-
A9.42.	BOOLEAN EQUATIONS TR: TO 31-1-141-5										
A9.42.1.	Diagram to equation							-	-	-	-

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.42.2.	Equation to diagram							-	-	-	-
A9.42.3.	Simplify expressions							-	-	-	-
* A9.43.	COMPUTERS TR: TOs 31-1-141-6C and 31-1-141-9										
A9.43.1.	Operation principles							B	-	-	-
A9.43.2.	Load programs							B	-	-	-
A9.43.3.	Write/debug programs							-	-	-	-
A9.43.4.	Fault isolation							-	-	-	-
A9.43.5.	Circuit troubleshooting							-	-	-	-
A9.43.6.	Types of memories							B	-	-	-
A9.43.7.	Peripheral devices							B	-	-	-
A9.43.8.	Programming languages							-	-	-	-
A9.44.	MICROPROCESSOR CONTROLLED SYSTEMS TR: TO 31-1-141-6C										
A9.44.1.	Theory of operation										
A9.44.1.1.	Universal							-	-	-	-
A9.44.1.2.	8085 specific							-	-	-	-
A9.44.2.	Isolate faulty microprocessors							-	-	-	-
A9.45.	LOGIC CIRCUITS TR: TOs 31-1-141-5 and 31-1-141-13										
A9.45.1.	Theory of operation										
A9.45.1.1.	Counters							-	-	-	-
A9.45.1.2.	Registers							-	-	-	-
A9.45.1.3.	Combinational Logic Circuits										
A9.45.1.3.1.	Half-adder							-	-	-	-
A9.45.1.3.2.	Full-adder							-	-	-	-
A9.45.1.3.3.	Encoder							-	-	-	-

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.45.1.3.4. Decoder								-	-	-	-
A9.45.1.3.5. Multiplexer								-	-	-	-
A9.45.1.3.6. Demultiplexer								-	-	-	-
A9.45.1.3.7. Count detect								-	-	-	-
A9.45.2. Isolate faulty logic circuits								-	-	-	-
A9.45.3. Troubleshoot logic circuits								-	-	-	-
A9.46. DIGITAL TO ANALOG AND ANALOG TO DIGITAL CONVERTERS TR: TO 31-1-141-13											
A9.46.1. Theory of operation											
A9.46.1.1. Approximation A/D								B	-	-	-
A9.46.1.2. Ramp A/D								-	-	-	-
A9.46.1.3. Weighted resistor A/D								B	-	-	-
A9.46.2. Isolate faulty converters								-	-	-	-
A9.47. TRANSMISSION LINES TR: TOs 31-1-141-7, 31-1-141-8, 31-1-141-9 and 31-1-141-11											
A9.47.1. Theory of operation								B	B	-	-
A9.47.2. Perform measurements								-	-	-	-
A9.47.3. Calculations								-	-	-	-
A9.47.4. Isolate faulty transmission lines								-	-	-	-
* A9.48. WAVEGUIDES TR: TOs 31-1-141-9 and 31-1-141-11											
A9.48.1. Theory of operation								B	B	-	-
A9.48.2. Isolate faulty waveguides								-	-	-	-
* A9.49. MICROWAVE OSCILLATORS & AMPLIFIERS TR: TOs 31-1-141-3, 31-1-141-10 and 31-1-141-11											
A9.49.1. Theory of operation								-	-	-	-

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.49.2.	Tune/adjust							-	-	-	-
A9.49.3.	Isolate faulty microwave oscillators or amplifiers							-	-	-	-
* A9.50.	RESONANT CAVITIES TR: TOs 31-1-141-3, 31-1-141-9 and 31-1-141-11										
A9.50.1.	Theory of operation							-	-	-	-
A9.50.2.	Isolate faulty resonant cavities							-	-	-	-
A9.50.3.	Tune/adjust							-	-	-	-
* A9.51.	TRANSMITTERS TR: TOs 31-1-141-4, 31-1-141-9 and 31-1-141-13										
A9.51.1.	Theory of operation										
A9.51.1.1.	Amplitude Modulation							B	B	-	-
A9.51.1.2.	Frequency Modulation							B	B	-	-
A9.51.1.3.	Single Side Band							B	B	-	-
A9.51.1.4.	Pulse Modulation							B	B	-	-
A9.51.2.	Isolate faulty transmitters							-	-	-	-
A9.51.3.	Troubleshoot transmitter circuits							-	-	-	-
* A9.52.	RECEIVERS TR: TOs 31-1-141-4, 31-1-141-9 And 31-1-141-13										
A9.52.1.	Theory of operation										
A9.52.1.1.	Amplitude Modulation							B	B	-	-
A9.52.1.2.	Frequency Modulation							B	B	-	-
A9.52.1.3.	Single Side Band							B	B	-	-
A9.52.1.4.	Pulse Modulation							B	B	-	-
A9.52.2.	Isolate faulty receivers							-	-	-	-
A9.52.3.	Troubleshoot receiver circuits							-	-	-	-
A9.53.	TRANSMISSION POWER TR: TOs 31-1-141-7, 31-1-141-8 and 31-1-141-11										

ELECTRONIC PRINCIPLES

2A3X1

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	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
A9.53.1.	Perform measurements							-	-	-	-
A9.53.2.	Calculations							-	-	-	-
* A9.54.	ANTENNAS TR: TO 31-1-141-12										
A9.54.1.	Theory of operation							B	B	-	-
A9.54.2.	Perform alignments							-	-	-	-
A9.54.3.	Isolate faulty antennas							-	-	-	-
A9.55.	MICROPHONES TR: TO 31-1-141-3										
A9.55.1.	Theory of operation							B	B	-	-
A9.55.2.	Isolate faulty microphones							-	-	-	-
A9.55.3.	Troubleshoot circuits							-	-	-	-
A9.56.	SPEAKERS TR: TO 31-1-141-3										
A9.56.1.	Theory of operation							B	B	-	-
A9.56.2.	Isolate faulty speakers							-	-	-	-
A9.56.3.	Troubleshoot speakers							-	-	-	-
A9.57.	PHOTOSENSITIVE DEVICES TR: TOs 31-1-141-3 and 31-1-141-4										
A9.57.1.	Theory of operation							-	-	-	-
A9.57.2.	Isolate faulty photosensitive devices							-	-	-	-
A9.58.	DISPLAY TUBES TR: TO 31-1-141-3										
A9.58.1.	Theory of operation							-	-	-	-
A9.58.2.	Isolate faulty display tubes							-	-	-	-
* A9.59.	SUPPORT SUBJECTS TR: TOs 00-25-234 and 31-1-141-1										
A9.59.1.	Safety applicable to electronics							B	B	-	-
A9.59.2.	First aid for electrical shock							B	B	-	-

ELECTRONIC PRINCIPLES

2A3X1

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) Course	(2) CDC	(1) Course	(2) CDC
A9.59.3. Electrostatic Sensitive Device (ESD) control								B	B	-	-

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J
T	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	C
T	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A
M	3	3	3	3	3	3	3	3	3	3	3	3	3
N	3	3	3	3	3	3	3	3	3	3	3	3	7
U	1	1	1	1	1	1	1	1	1	1	1	1	1
M	A	A	A	B	B	B	C	C	C	A	B	C	
B	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	2

### 2A3X1 STS COURSE MATRIX

NOTE 1: J3ABR2A331A 003, J3ABR2A331B 003, and J3ABR2A331C 003 are the new F-15 3-level Mission Ready Technician (MRT) courses that will come on line July 2001. J3ABR2A331A 004, J3ABR2A331B 004, and J3ABR2A331C 004 are the new A-10 3-level Mission Ready Technician (MRT) courses that will come on line August 2001. These courses are taught at Sheppard AFB, TX. They incorporate MRT tasks coded to the "3b" level. A complete listing of the MRT tasks is in the STS portion of this CFETP.

NOTE 2: J3AZR2A331A 002, J3AZR2A331B 002, and J3AZR2A331C 002 are the F-15E supplemental courses. Students with assignments to bases having F-15E model aircraft will complete their respective shred AZR course after completing their respective shred ABR course. These courses are taught at Sheppard AFB, TX.

NOTE 3: J4ALF2A331A 000, J4ALF2A331B 000, and J4ALF2A331C 000 are F-15 TD courses. They were developed to support Guard conversion requirements. Upon completion, these courses award the 3-skill level. These courses are taught at field level.

NOTE 4: J3ACR2A371 002 is the 7-level in-residence craftsman course. This course is taught at Sheppard AFB, TX.

A2.1. CAREER LADDER STRUCTURE	A	A		A	A		A	A
A2.2. SECURITY								
A2.2.2.6. Specific vulnerabilities of AFSC 2A3X1	A	A		A	A		A	A
A2.2.2.7. Physical security of resources	A	A		A	A		A	A
A2.3. AFOSH								
A2.3.1. Hazards and AFOSH standards of AFSC 2A3X1	A	A		A	A		A	A
A2.3.2. Work area cleanliness and safety	A	A		A	A		A	A
A2.3.3. Hazards of RF energy	A	A		A	A		A	A
A2.3.4. Report suspected RF overexposure	b	b		b	b		b	b
A2.3.5.1. Compressed gases	A	A		A	A		A	A
A2.3.5.2. RF sources	A	A		A	A		A	A
A2.3.5.3. Electrical power	A	A		A	A		A	A
A2.3.5.4. Hydraulic power	A	A		A	A		A	A
A2.3.5.6. Portable fire extinguishers	A	A		A	A		A	A
A2.3.5.7. High Intensity Sound	A	A		A	A		A	A
A2.3.6. FOD prevention	A	A		A	A		A	A
A2.3.7. Laser safety	A	A		A	A		A	A
A2.3.8. Hydrazine hazards	A	A		A	A		A	A
A2.4. HAZCOM								
A2.4.1. Initial Federal Hazard Communication Training Program (FHCTP)	B	B		B	B		B	B
A2.4.2. Identification	B	B		B	B		B	B
A2.4.3. Handling/MSDS	B	B		B	B		B	B
A2.4.4. Storage/Labeling	B	B		B	B		B	B
A2.4.5. Disposal	B	B		B	B		B	B
A2.5. TECH PUBS								
A2.5.1. Function and application	A	A		A	A		A	A
A2.5.2. Use Wiring Diagrams	2b	2b		2b	2b		2b	2b
A2.5.3.1. Maintenance	3b	3b		3b	3b		3b	3b
A2.6. SUPPLY DISCIPLINE								
A2.6.6. Repair cycle/DLR								C
A2.6.10. Property responsibility	A	A		A	A		A	A
A2.6.11. Supply principles	A	A		A	A		A	A

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J	
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	L	A
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	7
N	1	1	1	1	1	1	1	1	1	1	1	1	1	1
U	A	A	A	B	B	B	C	C	C	A	B	C		
M														
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	0	2
A2.6.12. Use condition tags	b	b		b	b		b	b						
A2.6.13.1. AFTO Form 350	2b	2b		2b	2b		2b	2b						
A2.6.13.2. AF Form 2005	2b	2b		2b	2b		2b	2b						
A2.6.15. Agile Logistics														C
A2.7. SUPERVISION														
A2.7.3. Plan and schedule work assignments														C
A2.8. TRAINING														
A2.8.5. Evaluate personnel to determine need for training														C
A2.8.10. Evaluate effectiveness of training program														C
A2.9. MAINTENANCE MANAGEMENT														
A2.9.1. Maintenance accountability														C
A2.9.3. Basic functions and responsibilities of the maintenance complex	A	A		A	A		A	A						C
A2.9.5.1. Logistics Management														C
A2.10. MAINT, INSP SYS AND FORMS														
A2.10.1. Inspection systems	A	A		A	A		A	A						
A2.10.2. Deficiency reporting system														C
A2.10.9.1. 781A	3b	3b		3b	3b		3b	3b						C
A2.10.9.2. 781H	2b	2b		2b	2b		2b	2b						C
A2.10.9.3. 781K	2b	2b		2b	2b		2b	2b						C
A2.10.9.4. Other 781 forms														C
A2.10.10.1. Maintenance transactions	3b	3b		3b	3b		3b	3b						
A2.10.11. Computerized Fault Reporting System	A			A			A							
A2.10.12. Use CFRS	2b			2b			2b							
A2.11. GENERAL AIRCRAFT TASKS														
A2.11.1.2.2. Use interphone	3b	3b		3b	3b		3b	3b						
A2.11.2.1.1. Panels	2b	2b		2b	2b		2b	2b						
A2.11.2.1.2. Doors	2b	2b		2b	2b		2b	2b						
A2.11.2.2.1. Panels	2b	2b		2b	2b		2b	2b						
A2.11.2.2.2. Doors	2b	2b		2b	2b		2b	2b						
A2.11.9.1.1. Perform pre-use inspection	3b	3b		3b	3b		3b	3b						
A2.11.9.1.2. Use	3b	3b		3b	3b		3b	3b						
A2.11.9.3.1. Perform pre-use inspection	2b			2b	2b		2b							
A2.11.9.3.2. Use	2b			2b	2b		2b							
A2.11.9.3.3. Bleed	2b			2b	2b		2b							
A2.11.9.4.1. Perform pre-use inspection	2b			2b			2b							
A2.11.9.4.2. Use	2b			2b			2b							
A2.11.9.5.1. Perform pre-use inspection	2b			2b			2b							
A2.11.9.5.2. Use	2b			2b			2b							
A2.11.9.6.1. Perform pre-use inspection	2b						2b							

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J
T	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	A
T	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A
N	3	3	3	3	3	3	3	3	3	3	3	3	3
U	3	3	3	3	3	3	3	3	3	3	3	3	7
M	1	1	1	1	1	1	1	1	1	1	1	1	1
B	A	A	A	B	B	B	C	C	C	A	B	C	
E	0	0	0	0	0	0	0	0	0	0	0	0	0
R	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	2
A2.11.9.6.2. Use 2b 2b													
A2.13. FUNDAMENTALS OF AVIONIC SYSTEMS MAINTENANCE													
A2.13.1.1. Major structural areas	B	B		B	B		B	B		B	B	B	
A2.13.1.2. Major systems	B	B	B	B	B	B	B	B	B				
A2.13.1.3. Danger areas	B	B	B	B	B	B	B	B	B	B	B	B	
A2.13.3. Use common tool(s)	3b	3b		3b	3b		3b	3b					
A2.13.4. Corrosion control	A	A		A	A		A	A					
A2.13.5.1. Exposed electrical connectors	a	a		a	a		a	a					
A2.13.5.2. Open pressure lines	a	a		a	a		a	a					
A2.13.5.3. Open waveguides	a	a		a	a		a	a					
A2.13.6. Practice Electric Sensitive Device (ESD) Procedures	a	a		a	a		a	a					
A2.13.7. Perform aircraft safe for maintenance check	3b	3b		3b	3b		3b	3b		3c	3c	3c	
A2.13.8. Perform safety wiring	2b	2b		2b	2b		2b	2b					
A2.13.9. Use torque indicating devices	2b	2b		2b	2b		2b	2b					
A2.13.11. Follow CTK procedures	2b	2b		2b	2b		2b	2b					
A2.13.12.1. Chaffing Causes	A	A		A	A		A	A					
A2.13.12.2. Identification	A	A		A	A		A	A					
A2.13.12.3. Prevention	A	A		A	A		A	A					
A2.13.13.1.1. Methodology													C
A2.13.13.1.2. Analysis													C
A2.13.15. Apply range marks				b	b								
A2.14. AIRCRAFT WIRE, CABLE, AND TRANS LINE MAINT													
A2.14.1. Use wire repair kit(s)	2b	2b		2b	2b		2b	2b					
A2.14.2. Use heat gun	2b	2b		2b	2b		2b	2b					
A2.14.3. Aircraft wiring/connector													
A2.14.3.1. Troubleshoot	2b	2b		2b	2b		2b	2b					c
A2.14.3.2. Repair	2b	2b		2b	2b		2b	2b					
A2.14.3.3. Replace	2b	2b		2b	2b		2b	2b					
A2.14.3.4. Inspect	2b	2b		2b	2b		2b	2b					
A2.14.3.5. Wire lacing	2b	2b		2b	2b		2b	2b					
A2.14.4. RF/Video cables/connectors													
A2.14.4.1. Troubleshoot	2b	2b		2b	2b		2b	2b					
A2.14.4.2. Repair	b	b		b	b		b	b					
A2.14.4.3. Replace	b	b		b	b		b	b					
A2.14.4.4. Inspect	b	b		b	b		b	b					
A2.16. USE TEST EQUIPMENT													
A2.16.2. RF tester (AN/USM-2059)	3b												
A2.16.3. WOW/proximity box				b									
A2.16.4. Waveguide pressure tester	2b						2b			2b			
A2.16.5. PLV/NT (F-15)	2b						2b						
A2.16.6. PLV (A-10)								2b					
A2.16.7. RFLTS										2b			
A2.16.12. TTU-205				3b	3b								2b

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J	
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	L	C
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A
M	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N	3	3	3	3	3	3	3	3	3	3	3	3	3	7
U	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M	A	A	A	B	B	B	C	C	C	A	B	C		
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	0	2
A2.16.13. Automatic Flight Control System test set 3b														
A2.16.16. ILS Test Set 3b 3b														
A2.16.17. IFF Test Set 3b 3b														
A2.16.19. Radar target simulator (AN/APM-427) 2b 2b														
A2.16.21. Time domain reflectometer 2b 2b 2b 2b 2b 2b 3c														
A2.16.23. In-flight monitor a														
A2.16.24. Pitot static adapter 3b 3b														
A2.16.30. CAPRE 2b/x 2b/x														
A2.16.31. PATS/OTS 2b 2b														
A2.16.32. TACAN test set 2b														
A2.16.34.1. CYZ-10 3b														
A2.16.34.2. KYK-13 3b														
A2.16.34.3. KOI-18 3b														
A3.1. F-15 APG-63/APG-63(V)1/APG-70														
A3.1.1 F-15 APG-63/APG-63(V)1														
A3.1.1.1. Theory of operation B B B														
A3.1.1.2. Trace system diagrams b b														
A3.1.1.3. Perform														
A3.1.1.3.2. Pressurization check 2b														
A3.1.1.3.3. BIT 2b														
A3.1.1.4. Isolate malfunctions b b														
A3.1.1.5. Remove system LRU(s)														
A3.1.1.5.1. Receiver/Receiver exciter 3b														
A3.1.1.5.2. Transmitter 2b														
A3.1.1.6. Install system LRU(s)														
A3.1.1.6.1. Receiver/Receiver exciter 3b														
A3.1.1.6.2. Transmitter 2b														
A3.1.2. APG-70														
A3.1.2.1. Theory of operation B B														
A3.1.2.2. Trace system diagrams b b														
A3.1.2.3. Perform														
A3.1.2.3.1. Operational checkout 2b														
A3.1.2.3.3. BIT 2b														
A3.1.2.4. Isolate malfunctions b b														
A3.2. F-15 OWS														
A3.2.1. Theory of operation B B														
A3.2.2. Trace system diagrams b b														
A3.2.3. Perform matrix readout and ASP 72 reset 3b														
A3.2.5. Isolate malfunctions b b														
A3.3. F-15 HUD SYSTEMS														
A3.3.1. F-15 A-D HUD														
A3.3.1.1. Theory of operation B B														
A3.3.1.2. Trace system diagrams b b														
A3.3.1.3. Perform operational checkout 3b 2b														
A3.3.1.4. Isolate malfunctions b b														
A3.3.1.5. Remove system LRU(s)														
A3.3.1.5.1. HUD 2b														
A3.3.1.5.2. HUD processor 3b														
A3.3.1.6. Install system LRU(s)														

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J	
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	L	C
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A
N	3	3	3	3	3	3	3	3	3	3	3	3	3	3
U	3	3	3	3	3	3	3	3	3	3	3	3	3	7
M	1	1	1	1	1	1	1	1	1	1	1	1	1	1
B	A	A	A	B	B	B	C	C	C	A	B	C		
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	0	2
A3.3.1.6.1. HUD 2b														
A3.3.1.6.2. HUD processor 3b														
A3.3.2. F-15E HUD														
A3.3.2.1. Theory of operation B														
A3.3.2.2. Trace system diagrams b														
A3.3.2.3. Perform operational checkout 2b														
A3.3.2.4. Isolate malfunctions b														
A3.4. F-15 INS														
A3.4.1. Theory of operation B B														
A3.4.2. Trace system diagrams b b														
A3.4.3. Perform BIT and alignment checkout 2b 2b														
A3.4.4. Isolate malfunctions 2b b														
A3.4.5.1. Remove INU 2b														
A3.4.6.1. Install INU 2b														
A3.5. F-15 EGI														
A3.5.1. Theory of operation B														
A3.5.3. Perform														
A3.5.3.1. Operational checkout 2b														
A3.5.3.2. BIT 2b														
A3.5.4. Isolate malfunctions b														
A3.6. F-15 CC														
A3.6.1. Theory of operation B B B B B														
A3.6.2. Trace system diagrams b b b b														
A3.6.3. Perform														
A3.6.3.1. Operational checkout 3b 3b 2b														
A3.6.3.2. CC memory inspect procedure														
A3.6.3.2.1. F-15 A-D b														
A3.6.3.2.2. F-15E (Audit) b b														
A3.6.4. Isolate malfunctions b b b														
A3.6.5.1. Remove CC 3b														
A3.6.6.1. Install CC 3b														
A3.7. F-15 VTRS														
A3.7.1. Theory of operation B B														
A3.7.2. Trace system diagrams b b														
A3.8. F-15E LANTIRN NAV POD														
A3.8.1. Theory of operation B														
A3.8.2. Trace system diagrams b														
A3.8.3. Perform														
A3.8.3.1. BIT checkout 2b														
A3.8.3.2. Maint BIT checkout 2b														
A3.8.4. Isolate malfunctions b														
A3.8.5. Remove system LRU(s)														
A3.8.5.2. ECU 2b														
A3.8.5.3. Radar transmitter 2b														
A3.8.5.4. IR receiver (FINS) 2b														
A3.8.6. Install system LRU(s)														
A3.8.6.2. ECU 2b														
A3.8.6.3. Radar transmitter 2b														
A3.8.6.4. IR receiver (FINS) 2b														
A3.9. F-15E LANTIRN TGT POD														
A3.9.1. Theory of operation B														
A3.9.2. Trace system diagrams b														
A3.9.3. Perform														

## 2A3X1 STS COURSE MATRIX

S T S	J 3 A B R 2 A 3 3 1 U M B E R	J 3 A B R 2 A 3 3 1 A 0 0 3	J 3 A B R 2 A 3 3 1 A 0 0 2	J 3 A B R 2 A 3 3 1 B 0 0 3	J 3 A B R 2 A 3 3 1 B 0 0 4	J 3 A B R 2 A 3 3 1 B 0 0 2	J 3 A B R 2 A 3 3 1 C 0 0 3	J 3 A B R 2 A 3 3 1 C 0 0 4	J 3 A B R 2 A 3 3 1 C 0 0 2	J 4 A L F A 3 1 A 0 0 0	J 4 A L F A 3 1 B 0 0 0	J 4 A L F A 3 1 C 0 0 0	J 3 A C R 2 A 3 7 1 0 0 2
A3.9.3.1. Functional checkout				2b									
A3.9.3.2. Maintenance BIT				2b									
A3.9.4. Isolate malfunctions				b									
A3.10. F-15E RMR/DMS													
A3.10.1. Theory of operation				B									
A3.10.2. Trace system diagrams				b									
A3.10.3. Perform BIT checkout				2b									
A3.10.4. Isolate malfunctions				b									
A3.11. F-15E MPD													
A3.11.1. Theory of operation				B		B			B				
A3.11.2. Trace system diagrams				b									
A3.11.3. Perform													
A3.11.3.1. Operational checkout				2b									
A3.11.3.2. BIT				2b									
A3.11.4. Isolate malfunctions				b									
A3.12. F-15E CARA													
A3.12.1. Theory of operation				B									
A3.12.2. Trace system diagrams				b									
A3.12.3. Perform BIT checkout				2b									
A3.12.4. Isolate malfunctions				b									
A3.14. A-10 TVM													
A3.14.1. Theory of operation				B									
A3.14.2. Trace system diagrams				b									
A3.14.3. Perform													
A3.14.3.1. Operational checkout				3b									
A3.16. A-10 EGI													
A3.16.1. Theory of operation				B									
A3.16.2. Trace system diagrams				b									
A3.16.3. Perform operational checkout				3b									
A3.17. A-10 HUD													
A3.17.1. Theory of operation				B									
A3.17.2. Trace system diagrams				b									
A3.18. A-10 1553 DATA BUS													
A3.18.1. Theory of operation				B									
A3.18.2. Trace system diagrams				b									
A3.20. A-10 LASTE													
A3.20.1. Theory of operation				B									
A3.20.3. Perform operational checkout				3b									
A3.20.4.1. LASTE Analysis (PATS)				2b									
A3.21. A-10 PAVE PENNY													
A3.21.1. Theory of operation				B									
A3.21.2. Trace system diagrams				b									
A3.21.5. Remove													
A3.21.5.1. POD				2b									
A3.21.6. Install													
A3.21.6.1. POD				2b									
A3.22. A-10 CCTVS/CAVTR													
A3.22.1. Theory of operation				B									
A3.22.2. Trace system diagrams				b									
A3.22.3. Perform operational checkout				3b									
A4.1. F-15 FUEL QUANTITY													
A4.1.1. Theory of operation						B						B	

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J	J
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	L	C
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A
M	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N	3	3	3	3	3	3	3	3	3	3	3	3	3	7
U	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M	A	A	A	B	B	B	C	C	C	A	B	C		
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	0	2
A4.1.2. Trace system diagrams				b				b						
A4.1.3. Perform								2b						
A4.1.3.1. Operational checkout								2b						
A4.1.3.1.1. Built in test				3b										
A4.1.3.1.2. Bingo				3b										
A4.1.3.2. Fuel low level warning operational checkout								2b						
A4.1.3.3. Calibrate system				2b										
A4.1.4. Isolate malfunctions				b				b						
A4.1.5.1. Remove Indicator				3b										
A4.1.6.1. Install Indicator				3b										
A4.2. F-15 SAI, STBY COMPASS, AHRS														
A4.2.1.1. SAI theory				A										
A4.2.2.1. Stby Compass theory				A				B						
A4.2.3. AHRS														
A4.2.3.1. Theory of operation				B				B						
A4.2.3.2. Trace system diagrams				b				b						
A4.2.3.3. Perform														
A4.2.3.3.1. Operational checkout				3b				2b						
A4.2.3.3.2. Swing and compensation checks				a										
A4.2.3.4. Isolate malfunctions				b				b						
A4.2.3.5. Remove system LRU(s)														
A4.2.3.5.1. DG				3b										
A4.2.3.5.2. ECA				3b										
A4.2.3.5.3. Attitude Indicator				3b										
A4.2.3.6. Install system LRU(s)														
A4.2.3.6.1. DG				3b										
A4.2.3.6.2. ECA				3b										
A4.2.3.6.3. Attitude Indicator				3b										
A4.3. F-15 HSI														
A4.3.1. Theory of operation				B				B						
A4.3.2. Trace system diagrams				b				b						
A4.3.3. Perform														
A4.3.3.1. Operational checkout				3b				2b						
A4.3.3.2. BIT				3b				2b						
A4.3.4. Isolate malfunctions				b				b						
A4.3.5. Remove system LRU(s)														
A4.3.5.1. HSI				3b										
A4.3.5.2. FDA				3b										
A4.3.6. Install system LRU(s)														
A4.3.6.1. HSI				3b										
A4.3.6.2. FDA				3b										
A4.4. F-15 ACCELL/ G EXCEED														
A4.4.1. Theory of operation				B				B						
A4.4.2. Trace system diagrams				b										
A4.4.3. Perform operational checkout				3b				2b						
A4.5. F-15 HYD. PRESSURE INDICATING														
A4.5.1. Theory of operation				B				B						
A4.5.2. Trace system diagrams				b				b						
A4.5.3. Perform operational checkout				2b				b						
A4.5.4. Isolate malfunctions				b										

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J	J
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	L	C
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A
N	3	3	3	3	3	3	3	3	3	3	3	3	3	3
U	3	3	3	3	3	3	3	3	3	3	3	3	3	7
M	1	1	1	1	1	1	1	1	1	1	1	1	1	1
B	A	A	A	B	B	B	C	C	C	A	B	C		
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	0	2
A4.6. F-15A-D ENGINE INSTRUMENTS														
A4.6.1. Engine Oil														
A4.6.1.1. Theory of operation					B								B	
A4.6.1.2. Trace system diagrams					b								b	
A4.6.1.3. Isolate malfunctions													b	
A4.6.2. Tachometer														
A4.6.2.1. Theory of operation					B								B	
A4.6.2.2. Trace system diagrams					b								b	
A4.6.2.3. Isolate malfunctions													b	
A4.6.3. FTIT														
A4.6.3.1. Theory of operation					B								B	
A4.6.3.2. Trace system diagrams					b								b	
A4.6.3.3. Isolate malfunctions													b	
A4.6.3.4. Remove indicator					3b									
A4.6.3.5. Install indicator					3b									
A4.6.4. F-15 FUEL FLOW														
A4.6.4.1. Theory of operation					B								B	
A4.6.4.2. Trace system diagrams					b								b	
A4.6.4.3. Isolate malfunctions													b	
A4.6.5. Nozzle Position														
A4.6.5.1. Theory of operation					B								B	
A4.6.5.2. Trace system diagrams					b								b	
A4.6.5.3. Isolate malfunctions													b	
A4.7. F-15E ENGINE INSTRUMENT SYSTEM														
A4.7.1. Theory of operation								B						
A4.7.2. Trace system diagrams								b						
A4.7.3. Perform EMD BIT								2b						
A4.8. F-15 PITOT STATIC, HEATER, AND PNEUMATIC INSTR														
A4.8.1. Theory of operation					B								B	
A4.8.2. Trace system diagrams					b								b	
A4.8.3.1. S1, S2, pitot leak checkout					3b								2b	
A4.9. F-15 ADC														
A4.9.1. Theory of operation					B								B	
A4.9.2. Trace system diagrams					b								b	
A4.9.3. Perform														
A4.9.3.1. Operational checkout					3b									
A4.9.3.2. BIT					3b								2b	
A4.9.4. Isolate malfunctions					b								b	
A4.9.5.1. Remove ADC					3b									
A4.9.6.1. Install ADC					3b									
A4.10. F-15 FLIGHT CONTROL														
A4.10.1. Primary														
A4.10.1.1. Theory of operation					B								B	
A4.10.1.2. Trace system diagrams					b								b	
A4.10.1.3. Perform operational checkout													2b	
A4.10.1.4. Isolate malfunctions													b	
A4.10.2. Trim														
A4.10.2.1. Theory of operation					B									
A4.10.2.2. Trace system diagrams					b									
A4.10.3. F-15A-D AFCS														
A4.10.3.1. Theory of operation					B									

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J	J
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	L	C
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	7
N	1	1	1	1	1	1	1	1	1	1	1	1	1	1
U	A	A	A	B	B	B	C	C	C	A	B	C		
M														
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	0	2
A4.10.3.2. Trace system diagrams				b										
A4.10.3.3. Perform operational checkout				3b										
A4.10.3.4. Isolate malfunctions				2b										
A4.10.3.5. Remove system LRU														
A4.10.3.5.1. Pitch computer				3b										
A4.10.3.5.2. Roll/Yaw computer				3b										
A4.10.3.6. Install system LRU														
A4.10.3.6.1. Pitch computer				3b										
A4.10.3.6.2. Roll/Yaw computer				3b										
A4.10.4. F-15E AFCS														
A4.10.4.1. Theory of operation				B										
A4.10.4.2. Trace system diagrams				b										
A4.10.4.3. Perform operational checkout				2b										
A4.10.4.4. Isolate malfunctions				b										
A4.11. F-15 ENGINE AIR INTAKE														
A4.11.1. Theory of operation				B										
A4.11.2. Trace system diagrams				b										
A4.11.3.2. Perform Static BIT checkout				3b										
A4.11.4. Isolate malfunctions				b										
A4.11.5. Remove AIC				3b										
A4.11.6. Install AIC				3b										
A4.13. F-15 SFDR/SDR														
A4.13.1. Theory of operation				B										
A4.13.2. Trace system diagrams				b										
A4.14. F-15 BIT														
A4.14.1. Theory of operation				B										
A4.14.2. Trace system diagrams				b										
A4.14.3. Perform operational checkout				3b										
A4.1.4. Isolate malfunctions				b										
A4.15. A-10 FUEL QUANTITY														
A4.15.1. Theory of operation				B										
A4.15.2. Trace system diagrams				b										
A4.15.3.1. Indicator checkout				3b										
A4.16. A-10 HARS														
A4.16.1.1 Theory of operation				B										
A4.16.1.2. Trace system diagrams				b										
A4.16.1.3. Perform operational checkout				3b										
A4.19. A-10 ENGINE INSTRUMENTS														
A4.19.1. Oil pressure														
A4.19.1.1. Theory of operation				B										
A4.19.1.2. Trace system diagrams				b										
A4.19.2. Core Speed														
A4.19.2.1. Theory of operation				B										
A4.19.2.2. Trace system diagrams				b										
A4.19.3. Fan Speed														
A4.19.3.1. Theory of operation				B										
A4.19.3.2. Trace system diagrams				b										
A4.19.4. ITT														
A4.19.4.1. Theory of operation				B										
A4.19.4.2. Trace system diagrams				b										

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J	
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	L	C
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A
N	3	3	3	3	3	3	3	3	3	3	3	3	3	3
U	3	3	3	3	3	3	3	3	3	3	3	3	3	7
M	1	1	1	1	1	1	1	1	1	1	1	1	1	1
B	A	A	A	B	B	B	C	C	C	A	B	C		
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	0	2
A4.19.5. Fuel Flow														
A4.19.5.1. Theory of operation					B									
A4.19.5.2. Trace system diagrams					b									
A4.20. A-10 FLT INSTRUMENT														
A4.20.1. Pitot-Static System														
A4.20.1.1. Theory of operation					B									
A4.20.1.3.1. Perform leak check					3b									
A4.20.1.3.3. Altimeter/Airspeed operational check					3b									
A4.20.2. CADC														
A4.20.2.1. Theory of operation					B									
A4.20.2.2. Trace system diagrams					b									
A4.20.2.3. Perform operational checkout					3b									
A4.20.3. Altimeter														
A4.20.3.1. Theory of operation					B									
A4.20.3.2. Trace system diagrams					b									
A4.20.4. Vertical Velocity														
A4.20.4.1. Theory of operation					B									
A4.20.4.3. Perform operational checkout					3b									
A4.20.5. Airspeed														
A4.20.5.1. Theory of operation					B									
A4.20.6. ADI														
A4.20.6.1. Theory of operation					B									
A4.20.6.3. Perform operational checkout					2b									
A4.20.7. Standby ADI														
A4.20.7.1. Theory of operation					B									
A4.20.7.3. Perform operational checkout					2b									
A4.21. A-10 AOA/STALL														
A4.21.1. Theory of operation					B									
A4.21.2. Trace system diagrams					b									
A4.21.3. Perform operational checkout					3b									
A4.22. A-10 HSI														
A4.22.1. Theory of operation					B									
A4.25.1. SAS														
A4.25.1.1. Theory of operation					B									
A4.25.1.2. Trace system diagrams					b									
A4.25.1.3. Perform operational checkout					3b									
A4.25.2. Alpha Mach System/Stall Warning System (Slats)														
A4.25.2.1. Theory of operation					B									
A4.25.2.2. Trace system diagrams					b									
A4.25.2.3. Perform operational checkout					2b									
A4.25.3. Flaps														
A4.25.3.1. Theory of operation					B									
A4.25.3.2. Trace system diagrams					b									
A4.25.3.3. Perform operational checkout					2b									
A4.26. A-10 VGH														
A4.26.1. Theory of operation					B									
A4.26.2. Trace system diagrams					b									

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J	
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	L	C
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A
N	3	3	3	3	3	3	3	3	3	3	3	3	3	3
U	3	3	3	3	3	3	3	3	3	3	3	3	3	7
M	1	1	1	1	1	1	1	1	1	1	1	1	1	1
B	A	A	A	B	B	B	C	C	C	A	B	C		
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	0	2

A5.1. F-15 UHF/AUDIO SIGNALS/SECURE SPEECH														
A5.1.1. F-15 UHF														
A5.1.1.1. Theory of operation								B		B			B	
A5.1.1.2. Trace system diagrams								b					b	
A5.1.1.3. Perform operational checkout								2b		2b			2b	
A5.1.1.4. Isolate malfunctions								b					b	
A5.1.1.5.1. Remove UHF/RT														
A5.1.1.6.1. Install UHF/RT														
A5.1.2. F-15 Audio Signals														
A5.1.2.1. Theory of operation								B		B			B	
A5.1.2.2. Trace system diagrams								b					b	
A5.1.2.3. Perform BIT checkout								2b		2b			2b	
A5.1.2.4. Isolate malfunctions								b					b	
A5.1.3. F-15 Secure Speech														
A5.1.3.1. Theory of operation								B		B			B	
A5.1.3.2. Trace system diagrams								b					b	
A5.1.3.3. Perform operational checkout								2b		2b			2b	
A5.1.3.4. Isolate malfunctions								b					b	
A5.3. F-15 ADF														
A5.3.1. Theory of operation								B		B			B	
A5.3.2. Trace system diagrams								b		b			b	
A5.3.4. Isolate malfunctions													b	
A5.4. F-15 ILS														
A5.4.1. Theory of operation								B		B			B	
A5.4.2. Trace system diagrams								b					b	
A5.4.3. Perform operational checkout								3b		2b				
A5.4.4. Isolate malfunctions								b					b	
A5.4.5.1. Remove ILS REC														
A5.4.6.1. Install ILS REC														
A5.5. F-15 TACAN														
A5.5.1. Theory of operation								B		B			B	
A5.5.2. Trace system diagrams								b					b	
A5.5.3. Perform														
A5.5.3.1. Operational checkout								3b		2b			2b	
A5.5.3.2. BIT								3b		2b			2b	
A5.5.4. Isolate malfunctions								b					b	
A5.5.5.1. Remove TCN R/T														
A5.5.6.1. Install TCN R/T														
A5.6. F-15 IFF														
A5.6.1. Theory of operation								B		B			B	
A5.6.2. Trace system diagrams								b					b	
A5.6.3. Perform														
A5.6.3.1. Operational checkout								3b		2b			b	
A5.6.3.2. BIT								3b		2b			b	
A5.6.4. Isolate malfunctions								2b					2b	
A5.6.5.1. Remove IFF Transponder														
A5.6.6.1. Install IFF Transponder														
A5.6.7. Code/decode mode 4								3b						
A5.7. F-15 AAI														
A5.7.1. Theory of operation								B		B			B	
A5.7.2. Trace system diagrams								b					b	

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J	J
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	L	A
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A
N	3	3	3	3	3	3	3	3	3	3	3	3	3	3
U	3	3	3	3	3	3	3	3	3	3	3	3	3	7
M	1	1	1	1	1	1	1	1	1	1	1	1	1	1
B	A	A	A	B	B	B	C	C	C	A	B	C		
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	4	2	3	4	2	3	4	2	0	0	0	0	2
A5.7.3.2. Perform BIT							3b		2b			2b		
A5.7.4. Isolate malfunctions							b		b			b		
A5.7.5.1. Remove AAI R/T							3b							
A5.7.6.1. Install AAI R/T							3b							
A5.7. Code/decode mode 4													2b	
A5.8. F-15 RWR														
A5.8.1. Theory of operation							B		B			B		
A5.8.2. Trace system diagrams							b					b		
A5.8.3. Perform														
A5.8.3.1. Operational checkout							2b		2b			2b		
A5.8.3.2. BIT							2b		2b			2b		
A5.8.4. Isolate malfunctions							b					b		
A5.8.5.1. Remove LRU-3							2b							
A5.8.6.1. Install LRU-3							2b							
A5.9. F-15 EWWS														
A5.9.1. Theory of operation							B		B			B		
A5.9.2. Trace system diagrams							b					b		
A5.9.3.2. Perform BIT checkout							3b		2b			2b		
A5.9.4. Isolate malfunctions							b					b		
A5.9.5.1. Remove EWWS R/T							3b							
A5.9.6.1. Install EWWS R/T							3b							
A5.10. F-15 ICMS														
A5.10.1. Theory of operation							B		B			B		
A5.10.2. Trace system diagrams							b					b		
A5.10.3. Perform														
A5.10.3.1. BIT Checkout							3b		2b					
A5.10.3.3. Pressurization checkout							2b							
A5.10.4. Isolate malfunctions							b					b		
A5.10.5.1. Remove Band 2 Amp							3b							
A5.10.6.1. Install Band 2 Amp							3b							
A5.11. F-15 CMD														
A5.11.1. Theory of operation							B		B			B		
A5.11.2. Trace system diagrams							b					b		
A5.11.3.2. Perform BIT							2b		2b			2b		
A5.11.4. Isolate malfunctions												b		
A5.12. F-15 IBS														
A5.12.1. Theory of operation							B					B		
A5.12.2. Trace system diagrams							b					b		
A5.12.4. Isolate malfunctions												b		
A5.13. F-15 ECM PODS														
A5.13.1. Theory of operation							B							
A5.13.2. Trace system diagrams							b							
A5.15. F-15E AIU														
A5.15.1. Theory of operation											B			
A5.15.2. Trace system diagrams											b			
A5.15.3. Perform BIT checkout											2b			
A5.15.4. Isolate malfunctions											b			
A5.15.8.1. Hand Controller Operational checkout											2b			
A5.16. F-15E UFC														
A5.16.1. Theory of operation											B			
A5.16.2. Trace system diagrams											b			
A5.16.3. Perform BIT											2b			
A5.16.4. Isolate malfunctions											b			
A5.11. F 15E DATA LINK PODS														
A5.17.1. Theory of operation											B			

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J		
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3	
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	C		
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R	
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
M	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
N	3	3	3	3	3	3	3	3	3	3	3	3	3	7	
U	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
M	A	A	A	B	B	B	C	C	C	A	B	C			
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
R	3	4	2	3	4	2	3	4	2	0	0	0	0	2	
A5.17.2. Trace system diagrams										b					
A5.18. A-10 VHF COMMUNICATION															
A5.18.1. VHF AM															
A5.18.1.1. Theory of operation															B
A5.18.1.2. Trace system diagrams															b
A5.18.1.3. Perform operational checkout															2b
A5.18.2. VHF FM															
A5.18.2.1. Theory of operation															B
A5.18.2.2. Trace system diagrams															b
A5.18.2.3. Perform operational checkout															2b
A5.19. A-10 UHF/ADF															
A5.19.1. Theory of operation															B
A5.19.2. Trace system diagrams															b
A5.19.3. Perform operational checkout															2b
A5.19.4. Isolate malfunctions															b
A5.20. A-10 INTERPHONE															
A5.20.1. Theory of operation															B
A5.20.2. Trace system diagrams															b
A5.21. A-10 SECURE VOICE															
A5.21.1. Theory of operation															B
A5.21.2. Trace system diagrams															b
A5.21.3. Perform operational checkout															3b
A5.23. A-10 ILS															
A5.23.1. Theory of operation															B
A5.23.2. Trace system diagrams															b
A5.23.3. Perform operational checkout															3b
A5.23.4. Isolate malfunctions															b
A5.24. A-10 TACAN															
A5.24.1. Theory of operation															B
A5.24.2. Trace system diagrams															b
A5.24.3. Perform operational checkout															2b
A5.24.4. Isolate malfunctions															b
A5.25. A-10 IFF and MODE IV															
A5.25.1. Theory of operation															B
A5.25.2. Trace system diagrams															b
A5.25.3. Perform operational checkout															3b
A5.25.4. Isolate malfunctions															b
A5.27. A-10 RWR															
A5.27.1. Theory of operation															B
A5.27.2. Trace system diagrams															b
A5.27.3. Perform															
A5.27.3.1. Operational checkout															2b
A5.27.3.2. BIT															2b
A5.27.4. Isolate malfunctions															b
A5.27.7. Load/verify/reprogram															2b
A5.28. A-10 COUNTERMEASURES DISPENSER ALE-40/47															
A5.28.1. Theory of operation															B

## 2A3X1 STS COURSE MATRIX

S	J	J	J	J	J	J	J	J	J	J	J	J	J	J
T	3	3	3	3	3	3	3	3	3	3	4	4	4	3
S	A	A	A	A	A	A	A	A	A	A	A	A	A	A
I	B	B	Z	B	B	Z	B	B	Z	L	L	L	L	C
T	R	R	R	R	R	R	R	R	R	R	F	F	F	R
E	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M	A	A	A	A	A	A	A	A	A	A	A	A	A	A
M	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N	3	3	3	3	3	3	3	3	3	3	3	3	3	7
U	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M	A	A	A	B	B	B	C	C	C	A	B	C		
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	3	4	2	3	4	2	3	4	2	0	0	0	0	2

A5.28.2. Trace system diagrams	b
A5.28.3. Perform operational checkout	2b
A5.28.4. Isolate malfunctions	b
A5.28.5. Remove	
A5.28.5.1. Wheel well sequencer	2b
A5.28.5.2. Wing tip sequencer	2b
A5.28.5.3. EMI filter	2b
A5.28.6. Install	
A5.28.6.1. Wheel well sequencer	2b
A5.28.6.2. Wing tip sequencer	2b
A5.28.6.3. EMI filter	2b
A5.29. A-10 ELECTRONIC COUNTERMEASURES	
A5.29.1. Theory of operation	A
A5.29.2. Trace system diagrams	b
A5.30. A-10 COUNTER MEASURES SET	
A5.30.1. Theory of operation	B
A5.30.2. Trace system diagrams	b
A5.30.3.1 . Operational Checkout	2b
A5.30.3.2. BIT	2b

**CAREER FIELD EDUCATION AND TRAINING PLAN  
A-10/F-15/U-2 AVIONIC SYSTEMS  
AFSC 2A3X1**

**PART II**

***SECTION B - COURSE OBJECTIVE LIST***

**4. Measurement:** Each objective is indicated as follows: **W** indicates task or subject knowledge which is measured using a written test, **PC** indicates required task performance which is measured with a performance progress check, and **PC/W** indicates separate measurement of both knowledge and performance elements using a written test and a performance progress check.

**5. Standard:** The standard is 70% on written examinations. Standards for performance measurement are indicated in the objective and delineated on the individual progress checklist. 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.

**6. Proficiency Level:** A complete listing of the MRT tasks is in the STS portion of this CFETP. They are identified by the “3b” (“3” = Can do all parts of the task. Needs only a spot check of completed work and “b” = Can determine step by step procedures for doing the task) proficiency code in the 3-level column. The MRT program is designed to certify basic students at the “3b” level on selected aircraft specific tasks at the technical school so they will be productive immediately upon arrival at their first duty section. Other 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.

**7. Course Objectives:** A detailed listing of the initial skills course objectives may be obtained by submitting a written request to Michael Rachocki, 365 TRS/TRR, 609 9th Ave, Sheppard AFB TX 76311-2335.

***SECTION C - SUPPORT MATERIAL***

**8. Purpose:** The following list of support materials is not all-inclusive across the specialty; however, it covers the most frequently referenced areas. Support material is any training package designed to enhance the learning process at any level of training. Refer to Education and Training Course Announcements, for information on AETC formal courses listed below.

**8.1. FTD COURSES:**

<u>COURSE NUMBER</u>	<u>PDS</u>	<u>TITLE</u>	<u>OPR</u>
J4AMF/ASF/AST 2A3X1A 000	7WP	F-15 Integrated Avionic Systems Journeyman (Attack Control) (Cross)	372 TRS/TXC 912 I Ave Sheppard AFB, 76311-2361 DSN 736-4784
J4AMF/ASF/AST 2A3X1B 000	7WQ	F-15 Integrated Avionic Systems Journeyman (Instrument and Flight Controls) (Cross)	372 TRS
J4AMF/ASF/AST 2A3X1C 000	7WZ	F-15 Integrated Avionic Systems Journeyman (Comm/Nav/Pen Aids) (Cross)	372 TRS

**8.2. F-15E Training:** Additional courses exist for 2A3X1 A/B/C personnel assigned to F-15E aircraft units or upgrading while at F-15E units. Five-levels newly assigned to F-15E units are required to attend the respective shred FTD F-15E model difference courses. Newly assigned 7-levels should attend the following three difference courses:

<u>COURSE NUMBER</u>	<u>PDS</u>	<u>TITLE</u>	<u>OPR</u>
J4AMF/ASF/AST 2A3X1A-010	N8U	F-15E Integrated Avionic Journeyman/Craftsman (Attack Control) (Cross/Difference)	372 TRS
J4AMF/ASF/AST 2A3X1B-007	SMO	F-15E Integrated Avionic Journeyman/Craftsman (Instrument and Flight Controls) (Difference)	372 TRS
J4AMF/ASF/AST 2A3X1C-001	HU3	F-15E Avionic Journeyman/ Craftsman (Comm/Nav/Pen Aids) (Difference)	372 TRS

**8.3.** The following FTD cross courses are available to 2A3X1 (F-15E) personnel as continuation training.

<b><u>COURSE NUMBER</u></b>	<b><u>PDS</u></b>	<b><u>TITLE</u></b>	<b><u>OPR</u></b>
J4AMF/ASF/AST 2A3X1A-010	N8U	F-15E Integrated Avionic Journeyman/Craftsman (Attack Control) (Cross/Difference)	372 TRS
J4AMF/ASF/AST 2A3X1B-006	N8Z	F-15E Avionic Journeyman/ Craftsman (Instrument & Flight Control) (Cross)	372 TRS
J4AMF/ASF/AST 2A3X1C-008	N8V	F-15E Avionic Journeyman/ Craftsman (Comm/Nav/Pen Aids) (Cross)	372 TRS

**8.4. GENERAL COURSES:** The following general courses apply to subject AFSCs and other AFSCs as well.

<b><u>COURSE NUMBER</u></b>	<b><u>PDS</u></b>	<b><u>TITLE</u></b>	<b><u>OPR</u></b>
J6ANU00066038	AVH	Air Force Technical Order (T.O.) System (Gen)	362 TRS 613 10 <sup>th</sup> Ave Sheppard AFB, TX 76311-2352 DSN 736-5206
J4AMF/ASF/AST 00066 039	OBA	Air Force T.O. System (Adv)	362 TRS
J6AZU00066 058	9DU	Air Force Maintenance Data Collection System (CAMS)	362 TRS
J4AMF/ASF/AST 00066 059	MU1	Air Force Maintenance Data Collection (CAMS) (781 Auto Forms)	362 TRS
J4AMF/ASF/AST 00066 061	PCP	Air Force Maintenance Data Collection (CAMS) Operators Course (Introduction)	362 TRS
J6AZU00066 062	QRA	Core Automated Maintenance System (CAMS) (Mid-Level Maintenance Managers)	362 TRS

J4AMF/ASF/AST  
00066 063

QRQ

Core Automated Maintenance  
System (Senior Level Maintenance  
Managers)

362 TRS

## ***SECTION D - TRAINING COURSE INDEX***

**9. Purpose:** This index lists all mandatory Air Force in-residence, field, ECI, and exportable courses used to support training for this specialty. Refer to Education and Training Course Announcements, for information on AETC formal courses listed below.

### **9.1 Air Force In-Residence Courses:**

<b><u>COURSE NUMBER</u></b>	<b><u>PDS</u></b>	<b><u>TITLE</u></b>	<b><u>OPR</u></b>
L3AQR40020 090		Electronic Principles Course	342 TRS/TTEP 1220 Truemper St Lackland AFB, TX 78238-5546 DSN 473-2930
J3ABR2A331A 003	FFO	F-15 (MRA) Avionic Attack Control Systems Apprentice	365 TRS/TRR 609 9 <sup>th</sup> Ave Sheppard AFB, TX 76311-2335 DSN 736-7901
J3ABR2A331B 003	HFO	F-15 (MRA) Avionic Instrument and Flight Control Systems Apprentice	365 TRS/TRR
J3ABR2A331C 003	JFO	F-15 (MRA) Avionic Communication, Navigation, and Penetration Aids Systems Apprentice	365 TRS/TRR
J3ABR2A331A 004	FAO	A-10 (MRA) Avionic Attack Control Systems Apprentice	365 TRS/TRR
J3ABR2A331B 004	HAO	A-10 (MRA) Avionic Instrument and Flight Control Systems Apprentice	365 TRS/TRR
J3ABR2A331C 004	JAO	A-10 (MRA) Avionic Communication, Navigation, and Penetration Aids Systems Apprentice	365 TRS/TRR

J3AZR2A331A 002	XNC	F-15E Avionic Attack Control Systems Apprentice	365 TRS/TRR
J3AZR2A331B 002	XND	F-15E Avionic Instrument and Flight Control Systems Apprentice	365 TRS/TRR
J3AZR2A331C 002	XNE	F-15E Avionic Communication, Navigation, and Penetration Aids Systems Apprentice	365 TRS/TRR
J3ACR2A371 002	XQW	Advanced A-10/F-15/U-2 Avionic Troubleshooting Techniques	365 TRS/TRR

**9.2 Extension Course Institute (AFI/ADL) Courses:**

<u>COURSE NUMBER</u>	<u>TITLE</u>	<u>OPR</u>
CDC 2A351	F-15/A-10/U-2 Avionic Systems Journeyman and Craftsman	365 TRS/TRR
CDC 2A351A	F-15/A-10/U-2 Attack Control Systems Journeyman and Craftsman	365 TRS/TRR
CDC 2A351B	F-15/A-10/U-2 Instrument and Flight Control Systems Journeyman and Craftsman	365 TRS/TRR
CDC 2A351C	F-15/A-10/U-2 Communication, Navigation, and Penetration Aids Systems Journeyman and Craftsman	365 TRS/TRR

**9.3. Exportable Courses:** There are no exportable courses required for this specialty.

**9.4. Courses Under Development: NONE**

**9.5. Courses Under Revision:**

<u>COURSE NUMBER</u>	<u>PDS</u>	<u>TITLE</u>	<u>OPR</u>
CDC 2A351		F-15/A-10/U-2 Avionic Systems Journeyman	365 TRS/TRR
CDC 2A351A		F-15/A-10/U-2 Attack Control	365 TRS/TRR

	Systems Journeyman	
CDC 2A351B	F-15/A-10/U-2 Instrument and Flight Control Systems Journeyman	365 TRS/TRR
CDC 2A351C	F-15/A-10/U-2 Communication, Navigation, and Penetration Aids Systems Journeyman	365 TRS/TRR

***SECTION E - MAJCOM UNIQUE REQUIREMENTS***

- 10.** HQ ACC most recent MMCL can be obtain at the following:  
 Web Site <https://lg.acc.af.mil/lgq/lgqt/NEWLGQTHOME.htm>, DSN 574-3075