

AFSC 2A2X2

SPECIAL OPERATIONS FORCES/ PERSONNEL RECOVERY (SOF/PR) INTEGRATED INSTRUMENT AND FLIGHT CONTROL SYSTEMS



CAREER FIELD EDUCATION AND TRAINING PLAN

ACCESSIBILITY: Publications and forms are available on the e-publishing website at www.e-publishing.af.mil for downloading or ordering.

RELEASABILITY: There are no releasability restrictions on this publication.

This Page Intentionally Blank

**CAREER FIELD EDUCATION AND TRAINING PLAN
SOF/PR INTEGRATED INSTRUMENT AND FLIGHT CONTROL SYSTEMS
AFSC 2A2X2**

Table of Contents

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

OPR: 365 TRS/TRR
 Certified by: HQ USAF/A4LF (CMSgt Tony Turner)
 Supersedes: CFETP 2A5X3B, 1 Oct 2006
 Pages: 66

**SOF/PR INTEGRATED INSTRUMENT AND FLIGHT CONTROL SYSTEMS
CAREER FIELD EDUCATION AND TRAINING PLAN
AFSC 2A2X2**

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 2A2X2, SOF/PR Integrated Instrument and Flight Control 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. Supervisors will use both parts to plan, manage, and control training.

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

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

ABBREVIATIONS/TERMS EXPLAINED

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Task Certifier: See Certification Official

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

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

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

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

PART I

Section A - GENERAL INFORMATION

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

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

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

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

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

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

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

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

Section B - CAREER FIELD PROGRESSION AND INFORMATION

4. Specialty Descriptions.

4.1. Specialty Shreds. None

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

4.3. Duties and Responsibilities.

4.3.1. SOF/PR Integrated Instrument and Flight Control Systems Apprentice and Journeyman. Operates and maintains instrument and flight control systems on SOF/PR C-130 variants, HH-60s, EC-130 Commando Solo, EC-130 Compass Call, and WC-130s. Analyzes equipment operating characteristics to isolate malfunctions in avionics systems, integrated test systems built-in-test (BIT), multiplexed data bus systems, recording systems, video display systems, flight instruments, mission computer systems, inertial navigation systems (INS), global positioning system, primary and secondary flight controls, automatic flight control, engine instrumentation, fuel management systems, central air data systems, and situational awareness systems. Removes, installs, checks, and repairs avionics systems and line replaceable units (LRU). Diagnoses malfunctions using technical orders, schematics, wiring diagrams, integrated test systems and other test equipment. Removes, replaces, and repairs faulty system wiring, electrical connectors, and multiconductor cables. Modifies avionics systems according to technical publications. Updates operational logs, inspection records, aircraft forms, and automated maintenance systems. Performs and supervises alignment, calibration, and boresight of avionics systems. Uploads ground maintenance and operational software. Performs off-equipment maintenance on selected avionics LRUs and maintains peculiar support equipment (SE).

4.3.2. SOF/PR Integrated Instrument and Flight Control Systems Craftsman. Inspects and evaluates aircraft maintenance activities. Inspects and verifies operational status and configuration of avionics systems and software. Records and ensures validity of entries into maintenance data collection and inspection systems. Resolves and assists units in solving maintenance and supply problems. Interprets and recommends corrective action to inspection findings. Prepares aircraft for low altitude attack profiles, precision bombing, covert operations, and reconnaissance.

4.3.3. Maintenance Superintendent. Plans, organizes and directs aircraft maintenance activities. Establishes methods and performance standards. Analyzes reports and maintenance plans. Directs operation and modification of standard operating procedures. Establishes priorities. Evaluates activities for compliance with directives. Supervises and assists in aircraft ground servicing, and launch/recovery operations. Reviews maintenance data collection summaries to determine trends and production effectiveness.

5. Career Skill Progression. Adequate training and timely progression from the apprentice to the superintendent skill level play an important role in the Air Force's ability to accomplish its mission. It is essential that everyone involved in training do their part to plan, develop, manage and conduct an effective training program. The guidance provided in this part of the

CFETP will ensure each individual receives viable training at appropriate points in their career. Use table 8.1 **Enlisted Career Path** in conjunction with information below to manage career skill progression.

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

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

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

5.4. Superintendent (9-level). Before attaining the 9-skill level, individuals must be SMSgt. A 9-skill level is expected to fill positions such as flight chief, production supervisor, and various staff NCOIC jobs. Additional training in the areas of budget, manpower, resources, and personnel management should be pursued through continuing education. Additional higher education and completion of courses outside their career AFSC are also recommended.

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

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

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

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

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

7.1.3. FAA Airframe and Power Plant (A&P) Certification. CCAF offers the Air Force A&P Certification Program for active duty, guard and reserve aircraft maintenance technicians in specific AFSCs. The program is designed to bridge gaps between Air Force education, training and experience and FAA eligibility requirements per Title 14, Code of Federal Regulations (CFR), Part 65.77. The program benefits the Air Force by broadening the skill sets and professional development of our technicians, producing a more skilled and diverse aircraft maintenance professional. The program directly supports the mission of CCAF in that FAA certification of our aircraft maintenance technicians enhances combat readiness, contributes to recruiting and retention and supports career transition of highly skilled technicians. To learn more and enroll in the program, visit CCAF's website at <http://www.au.af.mil/au/ccaf/certifications.asp>.

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

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

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

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

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

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

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

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

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

8. Career Field Path.

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

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

Section C - SKILL LEVEL TRAINING REQUIREMENTS

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

10. Specialty qualifications for SOF/PR Integrated Instruments and Flight control Systems apprentice, journeyman, craftsman, and superintendent (ref. AFECD found on the AFPC website).

10.1. Knowledge. Mandatory knowledge of: interpreting and applying mechanical, wiring, and electronic circuit diagrams; electronic, micro-processor, data bus, and mechanical principles theory and application; theory of flight; gyros, synchros, indicators, memory storage devices, servomechanisms, electromechanical; dependent navigation aids, inertial, automatic flight controls, instruments, multiplexing, video display, and digital computer systems working principles; subsystem tie-in between integrated avionics systems; using and interpreting testing and measuring devices; principles of motion mechanical and electrical means; and concepts and application of maintenance directives.

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

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

10.3.1. 2A232. Completion of the applicable basic avionic systems courses is mandatory.

10.3.2. 2A252. Requirements for the Journeyman level require completion of the 5-level CDC and qualification on the core tasks specified in the STS.

10.3.3. 2A272. Requirements for the Craftsman level require completion of the 7-level CDC (2AX7X), completion of Advanced Wiring Maintenance Course J4AMP3000 A48A, PDS ZIZ (per MMCL as it becomes available at the local FTD) and qualification on the core tasks specified in the STS.

10.3.4. 2A590. No formal training requirements established.

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

10.4.1. 2A252: Qualification in and possession of AFSC 2A232. Experience isolating malfunctions, removing and installing LRUs, and use of test and ground SE; maintaining SOF/PR Integrated Instrument and Flight Control Systems and associated subsystems, inspecting components, troubleshooting and correcting system malfunctions, and repairing and replacing system components. Journeymen perform operational checks, component repair, and use and maintenance of test and support equipment.

10.4.2. 2A272: Qualification in and possession of AFSC 2A252. Experience performing or supervising functions such as analyzing and isolating integrated avionics systems

malfunctions and using test equipment; inspection, maintaining and troubleshooting SOF/PR Integrated Instrument and Flight Control systems, maintaining supplies and equipment, and administrative duties.

10.4.3. 2A590: Qualification in and possession of AFSC 2A272 is mandatory. Also, experience is mandatory managing or directing functions such as inspecting or maintaining aircraft, helicopters, or avionics systems

10.5. Other.

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

10.5.2. For award and retention of AFSCs 2A2X2, requires completion of a current National Agency Check, Local Agency Checks and Credit (NACLC) according to AFI 31-501, *Personnel Security Program Management*.

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

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

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

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

Section D - RESOURCE CONSTRAINTS

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

12. Apprentice Level Training. No resource constraints identified.

13. Journeyman Level Training. No resource constraints identified.

14. Craftsman Level Training. No resource constraints identified.

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

PART II

Section A – SPECIALTY TRAINING STANDARD

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section B – 3-LEVEL COURSE OBJECTIVES

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

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

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

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

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

Section C – SUPPORT MATERIAL

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

Section D – TRAINING COURSE INDEX

9. Purpose. This section of the CFETP identifies training courses available for the 2A2X2 Specialty and shows how the courses are used by each MAJCOM in their career field training programs. For further information on the following courses, contact the OPR at:

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

10. Air Force In-Resident Courses.

COURSE NO.	COURSE TITLE	LOCATION	USER
E3AQR2A232_048X	Avionics Fundamentals	Keesler AFB	AF
J3ABR2A232_048X	SOF/PR Instrument and Flight Control Systems Apprentice	Sheppard AFB	AF

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

COURSE NO.	COURSE TITLE	USER
CDC 2A252X	Instrument and Flight Control Systems Journeyman	AF
CDC 2AX7X	Aerospace Maintenance Systems Craftsman	AF

12. Exportable Courses. None.

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

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

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

For further information contact the OPRs at:

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

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

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

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

Section E - MAJCOM UNIQUE REQUIREMENTS. There are no mandatory MAJCOM unique requirements for 2A2X2.

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

HQ AFSOC/A4MMT
100 Bartley St. Ste 339W
Hurlburt Field FL. 32544-5273
DSN 579-2355

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

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

7 Attachments:

1. Proficiency Code Key
2. General 2A2X2 Training Requirements (Mandatory)
3. SOF/PR C-130 Training Requirements (Mandatory for C-130 personnel)
4. Off Equipment Training Requirements (Mandatory for applicable personnel)
5. HH-60 Training Requirements (Mandatory for HH-60 personnel)
6. Avionics Fundamentals Training Requirements
7. 2AX7X CDC Training Requirements (Mandatory for 7-level upgrade)

Note: Use of at least one of the attachments three through five is required.

Attachment 1

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

QUALITATIVE REQUIREMENTS

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

Explanations

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

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

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

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

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

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

GENERAL TRAINING REQUIREMENTS

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

Attachment 2 – General Training Requirements

This general training requirements section is used to show necessary changes to the individual CFETP STS line items, for all the 2A2X2 shreds, in order to have the same level requirements across the shreds.

NOTE 1: The apprentice course, J3ABR2A232 048X, SOF/PR Integrated Instrument and Flight Control Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

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

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

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

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

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

2 CFETP 2A2X2 – SOF/PR INSTRUMENT and FLIGHT CONTROL SYSTEMS										
2.1 CAREER LADDER PROGRESSION (COMMON)										
2.1.1 Progression in Career Ladder 2A2X2 TR: AFI 36-2108 / AFVA 39-1								-	-	-
2.1.2 Duties and Responsibilities of 2A2X2 Personnel TR: AFMAN 36-2108								A	-	-
2.2 SECURITY (COMMON)										
2.2.1 Information Security TR: AFI-31-401 / AFI 31-501 / AFPD 31- 4 / AFPD 31-5, Applicable directives										
2.2.1.1 Classification of Information								-	-	-
2.2.1.2 Prevention of Security Violations								-	-	-
2.2.1.3 Access to Classified Information								-	-	-
2.2.1.4 Use Security Classification Guide								a	B	-
2.2.2 Physical Security TR: AFPD 31-1, Army Regulation 190-16										
2.2.2.1 Control of Restricted Areas								-	-	-
2.2.2.2 Security Alert Reporting								-	-	-
2.2.2.3 Cabinet, Safe, and Room Security Forms								A	-	-
2.2.2.4 Proper Handling of Classified Materials / Controlled Cryptographic Item (CCI)								-	-	-
2.2.3 Communications Security (COMSEC) TR: AFI 31-401/ DOD 5200.1-4/ AFPD 33-2										
2.2.3.1 COMSEC Education Program								-	-	-
2.2.4 Operations Security (OPSEC) TR: AFI 10-1101, AFPD 10-11, and applicable directives										
2.2.4.1 Goals of OPSEC Program								-	-	-
2.2.4.2 Function of CILs (Critical Information Lists)								-	-	-

GENERAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.3 AF OCCUPATIONAL SAFETY and HEALTH (AFOSH) Safety Practices										
2.3.1 RF Energy								A	B	-
2.3.2 Noise								A	B	-
2.3.3 Compressed Gases								A	B	-
2.3.4 Electrical Power								A	B	-
2.3.5 Hydraulic Power								A	B	-
2.3.6 Hazardous Liquids								A	B	-
2.3.7 Radioactive Parts and Materials								A	-	-
2.3.8 Aircraft								A	B	-
2.3.9 AGE								-	-	-
2.3.10 Electrical Equipment								A	B	-
2.3.11 Beryllium / Copper Alloys								-	-	-
2.3.12 Lasers								A	-	-
2.3.13 Composites								A	-	-
2.3.14 CRTs								A	-	-
2.3.15 Lifting Devices								A	-	-
2.3.16 Munitions Laden Aircraft								-	-	-
2.3.17 FOD Prevention								-	-	-
2.3.18 Fall Protection/ Restraints								A	-	-
2.3.19 AF Nuclear Surety Program								-	-	-
2.4 HAZARDOUS MATERIALS/ WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS (COMMON) TR: AFI-23-504, AFI 32-7042, AFPAM 32-7043, Applicable Federal Codes, EPA State Regulations										
2.4.1 Types of Hazardous Material/ Fluids								A	-	-
2.4.2 Handling Procedures								A	-	-
2.4.3 Storage and Labeling								A	-	-
2.4.4 Proper Disposal								A	-	-
2.4.5 Material Safety Data Sheet (MSDS)								B	-	-
2.4.6 Report Hazardous Material Spills								-	-	-
2.5 MAINTENANCE MANAGEMENT (COMMON) TR: AFI-21-101										
2.5.1 Basic Functions and Responsibilities of the Maintenance Complex TR: AFI 21-101								-	B	-
2.5.2 Maintenance Data Collection								A	B	-
2.5.3 Maintenance Information System								A	B	-
2.5.4 Maintenance Resource Management								A	-	-
2.5.5 Logistics / Resource Maintenance Management										
2.5.5.1 Logistics Management								-	-	-
2.5.5.2 Resource Management								-	-	-

GENERAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.5.5.3 Standard Publication Use								-	A	-
2.5.5.4 Aircraft Maintenance Management Information Systems (CEMS, RAMPOD, PAMS, etc)								-	-	-
2.5.5.5 SMR Codes								-	-	-
2.5.5.6 Modification Proposals (AF Form 1067)								-	-	-
2.5.5.7 Aircraft / Equipment Status Monitoring								-	-	-
2.5.5.8 Compliance and Standardization Requirements Listing								-	-	-
2.5.5.9 Maintenance Performance Indicators (MPI) Relationships (repeat / recur, fix, break, cannibalization rates, etc.)								-	-	-
2.5.5.10 Maintenance Incident Investigation and Prevention								-	-	-
2.5.5.11 Minimum Essential Systems Lists (MESL)								-	-	-
2.5.5.12 Warranty Program								-	-	-
2.5.5.13 TMDE Program								-	-	-
2.5.5.14 Workcenter Responsibilities								-	-	-
2.5.5.15 IDEA Program								-	-	-
2.5.5.16 Repair Cycle Asset Program								A	-	-
2.5.5.17 Resource Protection								-	-	-
2.5.5.18 Status of Resources and Training (SORTS)								-	-	-
2.5.6 Personnel Duties/ Responsibilities										
2.5.6.1 Expediter								-	-	-
2.5.6.2 Production Supervisor								-	-	-
2.5.6.3 Flight Chief								-	-	-
2.6 MAINTENANCE, INSPECTION SYSTEMS & FORMS (COMMON) TR: AFI-21-101, OO-20 series technical orders										
2.6.1 Maintenance Systems								-	-	-
2.6.2 Aircraft Inspection Systems								-	A	-
2.6.3 Maintenance Data Collection Forms								B	-	-
2.6.4 Historical Records								-	-	-
2.6.5 Status Reports								-	-	-
2.6.6 Configuration Management (aircraft / equipment records)								-	-	-
2.6.7 Operate MIS (IMDS, GO81, ECSS) TR: 00-20-2										
2.6.7.1 Create Discrepancy								2b	-	-
2.6.7.2 Schedule Discrepancy								2b	-	-
2.6.7.3 Defer Discrepancy								2b	-	-
2.6.7.4 Transfer Discrepancy								2b	-	-
2.6.7.5 Sign-Off Discrepancy								2b	-	-
2.6.7.6 In-Progress Inspection (IPI)								-	-	-

GENERAL TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.6.7.7 Supply Transactions								2b	-	-
2.6.7.8 Maintenance / Supervision Transactions								-	-	-
2.6.7.9 Use Work Center Discrepancy Screen								-	-	-
2.6.7.10 Run Aircraft History										
2.6.7.11 Complete IMDS Course J6ANU00066-046 or J6ANU00066-047								-	-	-
2.6.7.12 Complete IMDS for Supervisors Course J6ANU00066-048								-	-	-
2.6.8 Material Deficiency Reporting System TR: 00-35D-54										
2.6.8.1 Deficiency Reporting System								-	B	-
2.6.8.2 Product Quality Deficiency Report								-	A	-
2.6.9 Use Aircraft / Equipment Maintenance Forms TR: 00-20-1										
2.6.9.1 781A	*							2b	A	-
2.6.9.2 781B								-	-	-
2.6.9.3 781C								2b	A	-
2.6.9.4 781D								-	-	-
2.6.9.5 781F								-	-	-
2.6.9.6 781H								2b	A	-
2.6.9.7 781J								-	A	-
2.6.9.8 781K	*							2b	A	-
2.6.9.9 781M								-	-	-
2.6.9.10 AFTO Form 244 / 245	*							2b	A	-
2.6.9.11 AF Form 1492 - Warning Tags	*							2b	A	-
2.7 SUPERVISION (COMMON) TR: AFI 36-2108/ AFI 36-2201										
2.7.1 Orient New Personnel								-	-	-
2.7.2 Assign Personnel to Work Assignments								-	-	-
2.7.3 Plan Work Assignments and Priorities								-	-	-
2.7.4 Schedule Work Assignments and Priorities								-	-	-
2.7.5 Coordinate Work Assignments TR: AFI 36-2123/ AFR 21-101/ AFR 21-144/ applicable Command Directives								-	-	-
2.7.6 Establish TR: AFI 21-101/ AFI 21-114 and applicable command directives										
2.7.6.1 Work Methods								-	-	-
2.7.6.2 Controls								-	-	-
2.7.6.3 Performance Standards								-	-	-
2.7.7 Evaluate Work Performance of Subordinate Personnel								-	-	-
2.7.8 Help Resolve Technical Problems for Subordinate Personnel								-	-	-
2.7.9 Initiate Actions to Correct Substandard Performance								-	-	-

GENERAL TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: Applicable AFI 36-Series Instructions										
2.7.10 Supervise TR: Applicable AFI 36-Series Instructions										
2.7.10.1 Maintenance Actions								-	-	-
2.7.10.2 Inspection Actions								-	-	-
2.7.11 Justify TR: AFI 21-101, 21-114										
2.7.11.1 Personnel Manning Requirements								-	-	-
2.7.11.2 Equipment Authorizations								-	-	-
2.7.12 Statement of Charges TR: AFMAN 23-220/ AFMAN 177-11/ DOD 7200.10M								-	-	-
2.7.13 Perform Reports Of Survey TR: AFMAN 23-220/ DOD 7200.10M								-	-	-
2.7.14 Aircraft Scheduling TR: AFI 21-103										
2.7.14.1 Utilize Flow Charts								-	-	-
2.7.14.2 Status Reporting								-	-	-
2.7.14.3 Flying / Maintenance Plan								-	-	-
2.8 TRAINING (COMMON) TR: AFI 36-2201										
2.8.1 Plan Training								-	-	-
2.8.2 Conduct Training										
2.8.3 Evaluate Training								-	-	-
2.8.4 Maintain Training Records								-	-	-
2.8.5 Prepare JQS (AF Form 797s)								-	-	-
2.9 TECHNICAL PUBLICATIONS (COMMON) TR: Applicable 00-series technical orders										
2.9.1 Scope and Application of Technical Order System								A	B	-
2.9.2 Use Technical Orders								2b	-	-
2.9.3 Use Technical Order Indexes								-	-	-
2.9.4 Electronic Technical Orders								A	-	-
2.9.5 Technical Order Improvement / Deficiency Report (AFTO Form 22)								A	A	-
2.9.6 Scope and Application of Computer Program Identification Number (CPIN)								A	A	-
2.9.7 Use CPIN Compendium								-	-	-
2.9.8 Time Compliance Technical Orders								-	A	-
2.9.9 Maintain Technical Order Files								-	-	-
2.10 SUPPLY DISCIPLINE (COMMON) TR: AFI 21-101/ AFMAN 23-110/ ACCI 21-101										
2.10.1 Property Accountability and Responsibility								A	B	-
2.10.2 Principles of Equipment Authorization								-	-	-

GENERAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
and Management										
2.10.3 Special Requisitions								-	-	-
2.10.4 Back Order Verification								-	-	-
2.10.5 Equipment Condition Tags								2b	-	-
2.10.6 Issue / Turn-In Requests								-	-	-
2.10.7 Maintenance Supply Concept								-	-	-
2.10.8 Supply Documents Management								-	-	-
2.10.9 Equipment Account Management								-	-	-
2.10.10 Priority System								-	-	-
2.10.11 Repair Cycle Assets								-	-	-
2.10.12 Standard Base Supply System (SBSS)								A	-	-
2.10.13 FEDLOG / WEBFLIS								A	-	-
2.10.14 Land Mobile Radios, Pagers and Cell Phones								-	-	-
2.10.15 Depot Level Repairable								-	-	-
2.10.16 Classified Asset Handling								A	A	-
2.10.17 Use Supply Products										
2.10.17.1 D04 (Daily Document Register)								-	-	-
2.10.17.2 D18 (Priority Monitor List)								-	-	-
2.10.17.3 M30 (Due-Out Validation Listing)								-	-	-
2.10.17.4 D23 (Due in From Maintenance Listing)								-	-	-
2.11 FUNDAMENTALS OF ON-EQUIPMENT MAINTENANCE (COMMON) TR: Applicable aircraft -1 and -2 series technical orders										
2.11.1 Use Common Tools TR: AFI 91-408 TO 00-25-234 / TO 32-1-1 / TO 32-1-2 / TO 32-1-101 / TO 32-1-211								2b	-	-
2.11.2 Use Torque Indicating Devices	*							2b	B	-
2.11.3 Use Tension Indicating Devices	*							1a	B	-
2.11.4 Protect Exposed Electrical Connectors and Pressure Lines								a	-	-
2.11.5 Apply Range/ Slippage Marks								2b	-	-
2.11.6 Protection Procedures when Handling Electrostatic Sensitive Devices								B	-	-
2.11.7 Use of Panel Sealants/ Gaskets	*							-	A	-
2.11.8 Identify and Perform Corrosion Control								a	-	-
2.11.9 Inventory and Inspect CTKs	*							2b	-	-
2.11.10 Use Safetying Devices TR: 1-1-8										
2.11.10.1 Safety Wire	*							2b	-	-
2.11.10.2 Shear Wire								b	-	-
2.11.10.3 DMC Safe-T Cable								-	-	-
2.11.11 Remove and Install										

GENERAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: Applicable -2 technical orders NOTE: Qualification on line items 2.11.11.1 through 2.11.11.10 qualifies the individual on all similar system components throughout this training record unless identified separately in the specific system or in writing by the supervisor.										
2.11.11.1 Shock Mounted	*							2b	-	-
2.11.11.2 Tray Mounted	*							2b	-	-
2.11.11.3 Rack Mounted	*							2b	-	-
2.11.11.4 Console Mounted	*							2b	-	-
2.11.11.5 Aircraft Surface Mounted	*							2b	-	-
2.11.11.6 Bezel Mounted								2b	-	-
2.11.11.7 Clamp Mounted								2b	-	-
2.11.11.8 Bulkhead Mounted								a	-	-
2.11.11.9 Equipment Mounted	*							a	-	-
2.11.11.10 Minor Parts and Hardware (i.e. relay, switches, bulbs)	*							a	-	-
2.12 AIRCRAFT FAMILIARIZATION (COMMON) TR: Applicable aircraft technical orders										
2.12.1 Major Structural Areas								A	A	-
2.12.2 Major Systems								A	A	-
2.12.3 Danger Areas								B	B	-
2.12.4 Egress								A	-	-
2.12.5 Practice Safe Entry Procedures on Aircraft with Open Fuel Cells								-	-	-
2.12.6 Purpose of Radar Absorption Material (RAM)								A	-	-
2.12.7 Inspect Aircraft Systems for Safe and Secure Installation								-	-	-
2.12.8 Perform Aircraft Phase/ Isochronal Inspection								-	-	-
2.12.9 Maintain Tool Crib								-	-	-
2.12.10 Debrief								-	-	-
2.12.11 Dispatch Maintenance Crews								-	-	-
2.12.12 Ensure Aircraft is Safe for Simulated Airborne Conditions								-	-	-
2.12.13 Perform Proximity Switch Control Covering/ Uncovering								-	-	-
2.12.14 Use Powered AGE										
2.12.14.1 Bleed Air Cart								-	-	-
2.12.14.2 Heater								-	-	-
2.12.14.3 Air Conditioner								-	-	-
2.12.14.4 Light Cart								-	-	-
2.12.14.5 Air Compressor (MC-1A / MC-2A)								-	-	-
2.12.14.6 Nitrogen Cart								-	-	-
2.12.14.7 Ground Power Unit								-	-	-

GENERAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.12.14.8 Hydraulic Test Stand (Mule)								-	-	-
2.12.14.9 Powered Man- Lift(s)								-	-	-
2.12.14.10 Motorized Maintenance Stand								-	-	-
2.12.15 Use Non-Powered AGE TR: AFI 91-408/ applicable aircraft -4 technical orders										
2.12.15.1 Maintenance Platform (B-1)								2b	-	-
2.12.15.2 Maintenance Platform (B-2)								2b	-	-
2.12.15.3 Maintenance Platform (B-4 / B-5)								2b	-	-
2.12.15.4 Maintenance Platform (B-7)								-	-	-
2.12.15.5 Maintenance Platform (C-1)								-	-	-
2.13 FUNDAMENTALS OF AVIONICS SYSTEMS MAINTENANCE (COMMON) TR: Applicable aircraft -1 and -2 series technical orders										
2.13.1 Fundamentals of Flight								B	B	-
2.13.2 Nuclear Hardness Maintenance and Inspections TR: TO JG-00-1, 1A-14								A	-	-
2.13.3 Source Of EMI										
2.13.3.1 Identify								A	A	-
2.13.3.2 Locate								-	-	-
2.13.3.3 Eliminate								-	-	-
2.14 MULTIPLEX BUS (COMMON)										
2.14.1 Theory of Operation								B	-	-
2.14.2 Data Bus Principles / Maintenance Practices TR: Applicable aircraft technical orders										
2.14.2.1 Local Area Networks								A	B	-
2.14.3 MIL-STD-1553B								B	B	-
2.14.4 Fiber Optics								A	A	-
2.14.5 Troubleshoot Data Bus								-	-	-
2.15 GENERAL FLIGHT CONTROL SYSTEMS (COMMON)										
2.15.1 Manual Flight Controls										
2.15.1.1 Primary Flight Control										
2.15.1.1.1 Theory of Operation										
2.15.1.1.1.1 Fixed Wing								B	B	-
2.15.1.1.1.2 Rotary Wing								B	-	-
2.15.1.2 Secondary Flight Controls										
2.15.1.2.1 Purpose and Characteristics								-	-	-
2.15.1.2.2 Theory of Operation								B	B	-
2.15.1.2.3 System Tie-In / Integration								-	-	-
2.15.1.2.4 Perform Inspection								-	-	-
2.15.1.2.5 Perform Operational Checks								-	-	-
2.15.1.2.6 Troubleshoot								-	-	-

GENERAL TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.15.2 Flight Control Systems Tie-In/ Integration										
2.15.2.1 Mechanical								B	B	-
2.15.2.2 Electro-Mechanical								B	B	-
2.15.2.3 Hydro-Mechanical								B	B	-
2.15.2.4 Electro-Hydraulic								B	B	-
2.16 POSTION INDICATING/ MEASUREMENT SYSTEMS (COMMON)										
2.16.1 Purpose and Characteristics								-	-	-
2.16.2 Theory of Operation								A	A	-
2.16.3 System Tie-In / Integration								-	-	-
2.16.4 Perform Inspection								-	-	-
2.16.5 Perform Operational Checks								-	-	-
2.16.6 Troubleshoot								-	-	-
2.17 AUTOMATIC FLIGHT CONTROL SYSTEMS (COMMON)										
2.17.1 Purpose and Characteristics								-	-	-
2.17.2 Theory of Operation								B	B	-
2.17.3 System Tie-In / Integration								B	B	-
2.17.4 Perform Inspection								2b	-	-
2.17.5 Perform Operational Checks								2b	-	-
2.17.6 Troubleshoot								2b	-	-
2.18 STABILITY AUGMENTATION (COMMON)										
2.18.1 Purpose and Characteristics								-	-	-
2.18.2 Theory of Operation								B	B	-
2.18.3 System Tie-In / Integration								B	B	-
2.18.4 Perform Inspection								-	-	-
2.18.5 Perform Operational Checks								-	-	-
2.18.6 Troubleshoot								-	-	-
2.19 FLIGHT CONTROL TRIM (COMMON)										
2.19.1 Purpose and Characteristics								-	-	-
2.19.2 Theory of Operation								B	B	-
2.19.3 System Tie-in / Integration								A	-	-
2.19.4 Perform Inspection								-	-	-
2.19.5 Perform Operational Checks								-	-	-
2.19.6 Troubleshoot								-	-	-
2.20 GENERAL COMPUTER COMPLEX (COMMON)										
2.20.1 Principles										
2.20.1.1 Central Processing Unit								-	-	-
2.20.1.2 Memory Storage Devices								-	-	-
2.20.2 On-Board Diagnostic Systems										
2.20.2.1 Purpose and Characteristics								-	-	-
2.20.2.2 Theory of Operation								A	B	-

GENERAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.20.2.3 System Tie-In/ Integration								A	B	-
2.20.2.4 Perform Inspection								-	-	-
2.20.2.5 Perform Operational Checks								-	-	-
2.20.2.6 Troubleshoot								-	-	-
2.20.3 Controls and Displays										
2.20.3.1 Purpose and Characteristics								-	-	-
2.20.3.2 Theory of Operation								B	B	-
2.20.3.3 System Tie-In/ Integration								A	-	-
2.20.3.4 Perform Inspection								-	-	-
2.20.3.5 Perform Operational Checks								2b	-	-
2.20.3.6 Troubleshoot								-	-	-
2.20.4 Data Transfer System										
2.20.4.1 Purpose and Characteristics								-	-	-
2.20.4.2 Theory of Operation								B	B	-
2.20.4.3 System Tie-In/ Integration								A	-	-
2.20.4.4 Perform Inspection								-	-	-
2.20.4.5 Perform Operational Checks								-	-	-
2.20.4.6 Troubleshoot								-	-	-
2.20.5 Mission Computer/ Flight Management Systems										
2.20.5.1 Purpose and Characteristics								-	-	-
2.20.5.2 Theory of Operation								B	B	-
2.20.5.3 System Tie-In/ Integration								B	B	-
2.20.5.4 Perform Inspection								-	-	-
2.20.5.5 Perform Operational Checks								-	-	-
2.20.5.6 Troubleshoot								-	-	-
2.20.6 Fuel Management Systems										
2.20.6.1 Purpose and Characteristics								-	-	-
2.20.6.2 Theory of Operation								B	B	-
2.20.6.3 System of Tie-In/ Integration								B	B	-
2.20.6.4 Perform Inspection								-	-	-
2.20.6.5 Perform Operational Checks								-	-	-
2.20.6.6 Troubleshoot								-	-	-
2.21 GENERAL NAVIGATION SYSTEMS (COMMON)										
2.21.1 Flight Director System										
2.21.1.1 Purpose and Characteristics								-	-	-
2.21.1.2 Theory of Operation								B	B	-
2.21.1.3 System Tie-In/ Integration								B	B	-
2.21.1.4 Perform Inspection								2b	-	-
2.21.1.5 Perform Operational Checks								2b	-	-
2.21.1.6 Troubleshoot								2b	-	-
2.21.2 Compass/ Attitude Heading Reference System										
2.21.2.1 Purpose and Characteristics								-	-	-
2.21.2.2 Theory of Operation								B	B	-

GENERAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.21.2.3 System Tie-In/ Integration								B	B	-
2.21.2.4 Perform Inspection								2b	-	-
2.21.2.5 Perform Operational Checks								2b	-	-
2.21.2.6 Troubleshoot								2b	-	-
2.21.3 Calibration/ Boresight System										
2.21.3.1 Purpose and Characteristics								-	-	-
2.21.3.2 Theory of Operation								B	B	-
2.21.3.3 System Tie-In / Integration								-	-	-
2.21.3.4 Perform Inspection								-	-	-
2.21.3.5 Perform Operational Checks								-	-	-
2.21.3.6 Troubleshoot								-	-	-
2.21.4 Inertial Navigation System										
2.21.4.1 Purpose and Characteristics								-	-	-
2.21.4.2 Theory of Operation								B	B	-
2.21.4.3 System Tie-In / Integration								B	B	-
2.21.4.4 Perform Inspection								-	-	-
2.21.4.5 Perform Operational Checks								2b	-	-
2.21.4.6 Troubleshoot								-	-	-
2.21.4.7 Perform Alignment								2b	-	-
2.21.5 Global Positioning System										
2.21.5.1 Purpose and Characteristics								-	-	-
2.21.5.2 Theory of Operation								B	B	-
2.21.5.3 System Tie-In / Integration								B	B	-
2.21.5.4 Perform Inspection								-	-	-
2.21.5.5 Perform Operational Checks								-	-	-
2.21.5.6 Troubleshoot								-	-	-
2.22 FLIGHT INSTRUMENT SYSTEMS (COMMON)										
2.22.1 Pitot Static System										
2.22.1.1 Purpose and Characteristics								-	-	-
2.22.1.2 Theory of Operation								B	B	-
2.22.1.3 System Tie-In/ Integration								B	B	-
2.22.1.4 Perform Inspection								2b	-	-
2.22.1.5 Perform Operational Checks								2b	-	-
2.22.1.6 Troubleshoot								2b	-	-
2.22.2 Altimeter										
2.22.2.1 Purpose and Characteristics								-	-	-
2.22.2.2 Theory of Operation								B	B	-
2.22.2.3 System Tie-In / Integration								-	-	-
2.22.2.4 Perform Inspection								2b	-	-
2.22.2.5 Perform Operational Checks								2b	-	-
2.22.2.6 Troubleshoot								2b	-	-
2.22.3 Vertical Velocity										
2.22.3.1 Purpose and Characteristics								-	-	-
2.22.3.2 Theory of Operation								B	B	-

GENERAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.22.3.3 System Tie-In / Integration								-	-	-
2.22.3.4 Perform Inspection								2b	-	-
2.22.3.5 Perform Operational Checks								2b	-	-
2.22.3.6 Troubleshoot								2b	-	-
2.22.4 Airspeed										
2.22.4.1 Purpose and Characteristics								-	-	-
2.22.4.2 Theory of Operation								B	B	-
2.22.4.3 System Tie-In / Integration								-	-	-
2.22.4.4 Perform Inspection								2b	-	-
2.22.4.5 Perform Operational Checks								2b	-	-
2.22.4.6 Troubleshoot								2b	-	-
2.22.5 True Airspeed										
2.22.5.1 Purpose and Characteristics								-	-	-
2.22.5.2 Theory of Operation								B	B	-
2.22.5.3 System Tie-In / Integration								-	-	-
2.22.5.4 Perform Inspection								-	-	-
2.22.5.5 Perform Operational Checks								-	-	-
2.22.5.6 Troubleshoot								-	-	-
2.22.6 Mach										
2.22.6.1 Purpose and Characteristics								-	-	-
2.22.6.2 Theory of Operation								B	B	-
2.22.6.3 System Tie-In / Integration								-	-	-
2.22.6.4 Perform Inspection								-	-	-
2.22.6.5 Perform Operational Checks								-	-	-
2.22.6.6 Troubleshoot								-	-	-
2.22.7 Accelerometer (G-meter)										
2.22.7.1 Purpose and Characteristics								-	-	-
2.22.7.2 Theory of Operation								B	-	-
2.22.7.3 System Tie-In / Integration								-	-	-
2.22.7.4 Perform Inspection								-	-	-
2.22.7.5 Perform Operational Checks								-	-	-
2.22.7.6 Troubleshoot								-	-	-
2.22.8 Temperature Systems										
2.22.8.1 Purpose and Characteristics								-	-	-
2.22.8.2 Theory of Operation								A	A	-
2.22.8.3 System Tie-In/ Integration								A	-	-
2.22.8.4 Perform Inspection								-	-	-
2.22.8.5 Perform Operational Checks								-	-	-
2.22.8.6 Troubleshoot								-	-	-
2.22.9 Heads-Up Display (HUD)										
2.22.9.1 Purpose and Characteristics								-	-	-
2.22.9.2 Theory of Operation								B	B	-
2.22.9.3 System Tie-In/ Integration								B	B	-
2.22.9.4 Perform Inspection								-	-	-
2.22.9.5 Perform Operational Checks								-	-	-

GENERAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.22.9.6 Troubleshoot								-	-	-
2.22.10 Angle of Attack										
2.22.10.1 Purpose and Characteristics								-	-	-
2.22.10.2 Theory of Operation								B	B	-
2.22.10.3 System Tie-In/ Integration								B	-	-
2.22.10.4 Perform Inspection								-	-	-
2.22.10.5 Perform Operational Checks								-	-	-
2.22.10.6 Troubleshoot								-	-	-
2.22.11 Air Data										
2.22.11.1 Purpose and Characteristics								-	-	-
2.22.11.2 Theory of Operation								B	B	-
2.22.11.3 System Tie-In/ Integration								B	B	-
2.22.11.4 Perform Inspection								2b	-	-
2.22.11.5 Perform Operational Checks								2b	-	-
2.22.11.6 Troubleshoot								2b	-	-
2.23 FLIGHT DATA RECORDER (COMMON)										
2.23.1 Flight Data Recording Systems										
2.23.1.1 Purpose and Characteristics								-	-	-
2.23.1.2 Theory of Operation								B	B	-
2.23.1.3 System Tie-In/ Integration								B	B	-
2.23.1.4 Perform Inspection								-	-	-
2.23.1.5 Perform Operational Checks								-	-	-
2.23.1.6 Troubleshoot								-	-	-
2.24 WARNING SYSTEMS (COMMON)										
2.24.1 Terrain Alert Warning Systems (TAWS/ GCAS/GPWX)										
2.24.1.1 Purpose and Characteristics								-	-	-
2.24.1.2 Theory of Operation								B	B	-
2.24.1.3 System Tie-In/ Integration								B	B	-
2.24.1.4 Perform Inspection								-	-	-
2.24.1.5 Perform Operational Checks								-	-	-
2.24.1.6 Troubleshoot								-	-	-
2.24.2 Traffic Alert and Collision Avoidance System (TCAS)										
2.24.2.1 Purpose and Characteristics								-	-	-
2.24.2.2 Theory of Operation								A	-	-
2.24.2.3 System Tie-In/ Integration								A	-	-
2.24.2.4 Perform Inspection								-	-	-
2.24.2.5 Perform Operational Checks								-	-	-
2.24.2.6 Troubleshoot								-	-	-
2.24.3 Altitude Alerter										
2.24.3.1 Purpose and Characteristics								-	-	-
2.24.3.2 Theory of Operation								B	-	-
2.24.3.3 System Tie-In / Integration								-	-	-
2.24.3.4 Perform Inspection								-	-	-

GENERAL TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.24.3.5 Perform Operational Checks								-	-	-
2.24.3.6 Troubleshoot								-	-	-
2.24.4 Caution Advisory/ Warning Systems										
2.24.4.1 Purpose and Characteristics								-	-	-
2.24.4.2 Theory of Operation								B	B	-
2.24.4.3 System Tie-In/ Integration								B	B	-
2.24.4.4 Perform Inspection								-	-	-
2.24.4.5 Perform Operational Checks								-	-	-
2.24.4.6 Troubleshoot								-	-	-
2.25 ENGINE INDICATING SYSTEMS (COMMON)										
2.25.1 Exhaust Gas Temperature (EGT) Indicating System										
2.25.1.1 Purpose and Characteristics								-	-	-
2.25.1.2 Theory of Operation								B	B	-
2.25.1.3 System Tie-In/ Integration								A	-	-
2.25.1.4 Perform Inspection								-	-	-
2.25.1.5 Perform Operational Checks								2b	-	-
2.25.1.6 Troubleshoot								2b	-	-
2.25.2 Tachometers										
2.25.2.1 Purpose and Characteristics								-	-	-
2.25.2.2 Theory of Operation								B	B	-
2.25.2.3 System Tie-In/ Integration								A	-	-
2.25.2.4 Perform Inspection								2b	-	-
2.25.2.5 Perform Operational Checks								2b	-	-
2.25.2.6 Troubleshoot								2b	-	-
2.25.3 Engine Pressure Ratio										
2.25.3.1 Purpose and Characteristics								-	-	-
2.25.3.2 Theory of Operation								B	B	-
2.25.3.3 System Tie-In/ Integration								A	-	-
2.25.3.4 Perform Inspection								2b	-	-
2.25.3.5 Perform Operational Checks								2b	-	-
2.25.3.6 Troubleshoot								2b	-	-
2.25.4 Oil Pressure										
2.25.4.1 Purpose and Characteristics								-	-	-
2.25.4.2 Theory of Operation								B	B	-
2.25.4.3 System Tie-In/ Integration								A	-	-
2.25.4.4 Perform Inspection								2b	-	-
2.25.4.5 Perform Operational Checks								2b	-	-
2.25.4.6 Troubleshoot								2b	-	-
2.25.5 Fuel Flow										
2.25.5.1 Purpose and Characteristics								-	-	-
2.25.5.2 Theory of Operation								B	B	-
2.25.5.3 System Tie-In/ Integration								A	-	-
2.25.5.4 Perform Inspection								2b	-	-

GENERAL TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.25.5.5 Perform Operational Checks								2b	-	-
2.25.5.6 Troubleshoot								2b	-	-
2.25.6 Torque/ Horsepower										
2.25.6.1 Purpose and Characteristics								-	-	-
2.25.6.2 Theory of Operation								B	B	-
2.25.6.3 System Tie-In/ Integration								A	-	-
2.25.6.4 Perform Inspection								-	-	-
2.25.6.5 Perform Operational Checks								-	-	-
2.25.6.6 Troubleshoot								-	-	-
2.26 LIQUID QUANTITY INDICATING SYSTEM (COMMON)										
2.26.1 Capacitance										
2.26.1.1 Purpose and Characteristics								-	-	-
2.26.1.2 Theory of Operation								B	B	-
2.26.1.3 System Tie-In/ Integration								B	-	-
2.26.1.4 Perform Inspection								2b	-	-
2.26.1.5 Perform Operational Checks								2b	-	-
2.26.1.6 Perform Calibration								2b	-	-
2.26.1.7 Troubleshoot								2b	B	-
2.26.2 Resistance										
2.26.2.1 Purpose and Characteristics								-	-	-
2.26.2.2 Theory of Operation								B	A	-
2.26.2.3 System Tie-In / Integration								-	-	-
2.26.2.4 Perform Inspection								-	-	-
2.26.2.5 Perform Operational Checks								-	-	-
2.26.2.6 Troubleshoot								-	-	-
2.27 AIRCRAFT WIRING (COMMON)										
2.27.1 Kapton								A	A	-
2.27.2 Multiconductor								A	-	-
2.27.3 Coaxial								A	B	-
2.27.4 Triaxial								A	B	-
2.27.5 Fiber Optics								A	A	-
2.27.6 Perform Wire Maintenance										
2.27.6.1 Stripping								2b	B	-
2.27.6.2 Environmental Splicing								2b	B	-
2.27.6.3 Bundling								2b	B	-
2.27.6.4 Strain Relief								2b	B	-
2.27.6.5 Nuclear Hardened								a	A	-
2.27.6.6 Twisted Pair								a	-	-
2.27.6.7 Single Conductor								a	-	-
2.27.6.8 Thermocouple Wiring								a	B	-
2.27.7 Continuity Checks								2b	-	-
2.27.8 Wire Repair		*						-	B	-
2.27.9 Solder / Desolder										
2.27.9.1 Terminal Connections								-	-	-

GENERAL TRAINING REQUIREMENTS											
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
2.27.9.2	Circuit (PC) Boards								-	-	-
2.27.9.3	Multipin Connectors								2b/b	-	-
2.27.9.4	Pot Connectors								-	-	-
2.27.10	Assemble / Disassemble Solderless Connectors										
2.27.10.1	Crimp Connectors		*						-	-	-
2.27.10.2	Coaxial Connectors								-	-	-
2.27.10.3	Multipin Connectors								2b/b	-	-
2.28	REMOVE/ INSTALL COMMON ELECTRICAL COMPONENTS (COMMON)										
2.28.1	Switches								-	-	-
2.28.2	Relays								-	-	-
2.28.3	Circuit Breakers/ Fuses								-	-	-
2.28.4	Remote Control Circuit Breakers								-	-	-
2.28.5	Terminal/ Modular Blocks								-	-	-
2.28.6	Capacitors/ Resistors/ Diodes								-	-	-
2.28.7	Lights/ Light Bulbs								-	-	-
2.28.8	Fans/ Blowers								-	-	-
2.28.9	Transformers								-	-	-
2.29	USE TEST EQUIPMENT / SPECIAL TOOLS (COMMON)										
2.29.1	Bus Analyzer								-	-	-
2.29.2	Wire Maintenance Heat Gun								2b	-	-
2.29.3	Fuel Quantity Test Set								2b	A	-
2.29.4	Engine Indicating Test Set								-	-	-
2.29.5	TTU-205 Test Set								2b	A	-
2.29.6	Jet Calibrator/ Analyzer								2b	-	-
2.29.7	Tachometer Tester								2b	-	-
2.29.8	Variable Reluctance Test Set								-	-	-
2.29.9	Deadweight Tester								2b	-	-
2.29.10	Fuel Flow Test Set								2b	-	-
2.29.11	IFF Test Set								-	-	-
2.29.12	VOR / ILS Test Set								2b	-	-
2.29.13	MC-1M/ 2000 Compass Calibrator								-	-	-
2.29.14	Flight Data Recording Test Set								-	-	-
2.29.15	Laptop / Hand-Held Computer								-	-	-
2.29.16	TACAN Test Set								-	-	-
2.29.17	Bonding Meter								2b	A	-

C-130 TRAINING REQUIREMENTS

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

Attachment 3 C-130 TRAINING REQUIREMENTS

NOTE 1: The apprentice course, J3ABR2A2X2 XXXX, SOF/PR Integrated Instrument and Flight Control Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

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

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

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

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

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

3.1 C-130 COMMON ON-EQUIPMENT MAINTENANCE											
3.1.1 GENERAL ORGANIZATION MAINTENANCE (AFSOC) (GENERAL)											
3.1.1.1 Aircraft Familiarization								-	-	-	
3.1.1.2 Flightline Safety / Precautions	*							-	-	-	
3.1.1.3 Major Structure Areas								-	-	-	
3.1.1.4 Major Systems								-	-	-	
3.1.2 GENERAL MAINTENANCE TASKS (AFSOC) (GENERAL)											
3.1.2.1 Make Aircraft Safe for Maintenance	*							-	-	-	
3.1.2.2 Dropped Object Prevention Program (DOPP)								-	-	-	
3.1.2.3 Statically Ground Aircraft	*							-	-	-	
3.1.2.4 Apply / Disconnect External Electrical Power	*							-	-	-	
3.1.2.5 Perform Aircraft Wash								-	-	-	
3.1.2.6 Perform Refuel / Defuel Team Member Duties								-	-	-	
3.1.2.7 Open / Close Engine Cowling								-	-	-	
3.1.2.8 Remove / Install Aircraft Maintenance Access Panels								-	-	-	
3.1.2.9 Perform Aircraft Marshaling Procedures								-	-	-	
3.1.2.10 Tow Aircraft TR: Applicable 1C-130 Technical Order											
3.1.2.10.1 Perform Wing / Tail Walker Duties								-	-	-	
3.1.2.10.2 Brake Operator								-	-	-	
3.1.2.10.3 Jacking Team Member								-	-	-	
3.1.3 GENERAL FLIGHT CONTROLS (AFSOC) (GENERAL)											
3.1.3.1 Flaps TR: Applicable C-130 Technical Orders											
3.1.3.1.1 Perform Operational Checks	*							-	-	-	
3.1.3.1.2 Remove / Install Flap Position Transmitter								-	-	-	
3.1.3.1.3 Perform Adjustments								-	-	-	

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
3.1.3.1.4 Isolate Malfunctions	*								-	-	-
3.1.3.2 Trim Position Indicating Systems TR: Applicable C-130 Technical Orders											
3.1.3.2.1 Perform Operational Checks	*								-	-	-
3.1.3.2.2 Perform Adjustments									-	-	-
3.1.3.2.3 Isolate Malfunctions	*								-	-	-
3.1.3.3 AN / AYW-1(V)1 Digital AutoPilot TR: Applicable C-130 Technical Orders											
3.1.3.3.1 Theory of Operation	*								-	-	-
3.1.3.3.2 Perform operational checks	*								-	-	-
3.1.3.3.3 Remove / Install											
3.1.3.3.3.1 Servo Motor									-	-	-
3.1.3.3.3.2 Drum and Bracket Assembly									-	-	-
3.1.3.3.3.3 Release Switch									-	-	-
3.1.3.3.3.4 G/A and P/S Switch									-	-	-
3.1.3.3.3.5 Air Data Sensor									-	-	-
3.1.3.3.4 Perform Cable Tension Adjustments									-	-	-
3.1.3.3.5 Isolate Malfunctions	*								-	-	-
3.1.3.3.6 Perform Advanced Troubleshooting		*							-	-	-
3.1.4 GENERAL NAVIGATION SYSTEMS (AFSOC) (GENERAL)											
3.1.4.1 Air Force Standard Flight Director TR: Applicable C-130 Technical Orders											
3.1.4.1.1 Perform Operational Check	*								-	-	-
3.1.4.1.2 Remove / Install Flight Director Mode Select Panel (FDMS)									-	-	-
3.1.4.1.3 Isolate Malfunctions	*								-	-	-
3.1.4.1.4 Perform Advanced Troubleshooting		*							-	-	-
3.1.4.2 C-12 Compass TR: Applicable C-130 Technical Orders											
3.1.4.2.1 Perform Operational Check	*								-	-	-
3.1.4.2.2 Perform Gyro Drift Bias Adjustment									-	-	-
3.1.4.2.3 Perform Calibration / Compass Swing									-	-	-
3.1.4.2.4 Isolate Malfunctions	*								-	-	-
3.1.4.2.5 Perform Advanced Troubleshooting		*							-	-	-
3.1.4.3 Standby Compass TR: Applicable C-130 Technical Orders											
3.1.4.3.1 Remove / Install Indicator											
3.1.4.3.2 Perform Calibration									-	-	-
3.1.4.4 Self-Contained Navigational System (SCNS) TR: Applicable C-130 Technical Orders											
3.1.4.4.1 Theory of Operation	*								-	-	-
3.1.4.4.2 Perform Operational Checks	*								-	-	-
3.1.5 FLIGHT INSTRUMENTS (AFSOC) (GENERAL)											
3.1.5.1 Pitot / Static System											

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: Applicable C-130 Technical Orders										
3.1.5.1.1 Perform Operational Checks	*							-	-	-
3.1.5.1.2 Remove / Install										
3.1.5.1.2.1 Static Port								-	-	-
3.1.5.1.2.2 Pitot Head								-	-	-
3.1.5.1.2.3 Differential Pressure Transducer								-	-	-
3.1.5.1.2.4 True Airspeed Indicator								-	-	-
3.1.5.1.3 Purge System								-	-	-
3.1.5.1.4 Manufacture Pitot / Static Hoses								-	-	-
3.1.5.1.5 Perform Calibration / Adjustments										
3.1.5.1.5.1 Altimeter / Altimeter-Encoder								-	-	-
3.1.5.1.5.2 Airspeed Indicator								-	-	-
3.1.5.1.6 Isolate Malfunctions	*							-	-	-
3.1.5.1.7 Perform Advanced Troubleshooting		*						-	-	-
3.1.5.2 Accelerometer (G-Meter) TR: Applicable C-130 Technical Orders										
3.1.5.2.1 Perform Operational Checks								-	-	-
3.1.5.2.2 Isolate Malfunctions	*							-	-	-
3.1.5.3 Free Air Temperature (FAT) / Outside Air Temperature (OAT) System TR: Applicable C-130 Technical Orders										
3.1.5.3.1 Perform Operational Checks	*							-	-	-
3.1.5.3.2 Isolate Malfunctions	*							-	-	-
3.1.5.4 Aircraft Clock TR: Applicable C-130 Technical Orders										
3.1.5.4.1 Perform Operational Checks								-	-	-
3.1.5.4.2 Isolate Malfunction								-	-	-
3.1.6 DATA RECORDER (AFSOC) (GENERAL)										
3.1.6.1 Solid State Flight Data Recorder System (SSFDR) TR: Applicable C-130 Technical Orders										
3.1.6.1.1 Theory of Operation	*							-	-	-
3.1.6.1.2 Perform Operational Check	*							-	-	-
3.1.6.1.3 Remove / Install										
3.1.6.1.3.1 Pressure Transducers								-	-	-
3.1.6.1.3.2 Positions Transducers								-	-	-
3.1.6.1.4 Perform Transducer Adjustments								-	-	-
3.1.6.1.5 Perform Data Download	*							-	-	-
3.1.6.1.6 Isolate Malfunctions	*							-	-	-
3.1.6.1.7 Perform Advanced Troubleshooting		*						-	-	-
3.1.7 WARNING SYSTEMS (AFSOC) (GENERAL)										
3.1.7.1 Ground Collision Avoidance System (GCAS) TR: Applicable C-130 Technical Orders										
3.1.7.1.1 Theory of Operation	*							-	-	-

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.1.7.1.2 Perform Operational Check	*							-	-	-
3.1.7.1.3 Isolate Malfunctions	*							-	-	-
3.1.7.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.1.8 ENGINE INDICATING SYSTEM (AFSOC) (GENERAL)										
3.1.8.1 Torque TR: Applicable C-130 Technical Orders										
3.1.8.1.1 Perform Operational Check	*							-	-	-
3.1.8.1.2 Calibrate Indicator								-	-	-
3.1.8.1.3 Isolate Malfunctions	*							-	-	-
3.1.8.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.1.8.2 Tachometer TR: Applicable C-130 Technical Orders										
3.1.8.2.1 Perform Operational Checks	*							-	-	-
3.1.8.2.2 Remove / Install Tachometer Generator								-	-	-
3.1.8.2.3 Isolate Malfunctions	*							-	-	-
3.1.8.3 Turbine Inlet Temperature TR: Applicable C-130 Technical Orders										
3.1.8.3.1 Theory of Operation	*							-	-	-
3.1.8.3.2 Perform Inspection								-	-	-
3.1.8.3.3 Perform Operational Check	*							-	-	-
3.1.8.3.4 Isolate Malfunctions	*							-	-	-
3.1.8.3.5 Perform Advanced Troubleshooting		*						-	-	-
3.1.8.4 Fuel Flow TR: Applicable C-130 Technical Orders										
3.1.8.4.1 Perform Operational Checks	*							-	-	-
3.1.8.4.2 Remove / Install Fuel Flow Transmitter								-	-	-
3.1.8.4.3 Isolate Malfunctions	*							-	-	-
3.1.8.4.4 Perform Advanced Troubleshooting		*						-	-	-
3.1.8.5 Oil Temperature TR: Applicable C-130 Technical Orders										
3.1.8.5.1 Theory of Operation	*							-	-	-
3.1.8.5.2 Perform Operational Check	*							-	-	-
3.1.8.5.3 Isolate Malfunctions	*							-	-	-
3.1.8.6 Oil Pressure TR: Applicable C-130 Technical Orders										
3.1.8.6.1 Perform Operational Check	*							-	-	-
3.1.8.6.2 Remove / Install Transmitter	*							-	-	-
3.1.8.6.3 Adjust Transmitter								-	-	-
3.1.8.6.4 Isolate Malfunctions	*							-	-	-
3.1.8.6.5 Perform Advanced Troubleshooting		*						-	-	-
3.1.8.7 Oil Quantity TR: Applicable C-130 Technical Orders										
3.1.8.7.1 Perform Operational Checks	*							-	-	-
3.1.8.7.2 Remove / Install Transmitter	*							-	-	-
3.1.8.7.3 Isolate Malfunctions	*							-	-	-

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.1.8.8 Oil Cooler Flap TR: Applicable C-130 Technical Orders										
3.1.8.8.1 Perform Operational Checks								-	-	-
3.1.8.8.2 Isolate Malfunctions								-	-	-
3.1.9 LIQUID QUANTITY INDICATING SYSTEMS (AFSOC) (GENERAL)										
3.1.9.1 Fuel Quantity										
3.1.9.1.1 Analog TR: Applicable C-130 Technical Orders										
3.1.9.1.1.1 Perform Operational Checks	*							-	-	-
3.1.9.1.1.2 Remove / Install Probes								-	-	-
3.1.9.1.1.3 Perform Indicator Calibration	*							-	-	-
3.1.9.1.1.4 Perform Totalizer Calibration								-	-	-
3.1.9.1.1.5 Isolate Malfunctions	*							-	-	-
3.1.9.1.1.6 Perform Advanced Troubleshooting		*						-	-	-
3.1.9.1.2 Digital TR: Applicable C-130 Technical Orders										
3.1.9.1.2.1 Perform Operational Checks	*							-	-	-
3.1.9.1.2.2 Remove / Install Probes								-	-	-
3.1.9.1.2.3 Perform Indicator Calibration	*							-	-	-
3.1.9.1.2.4 Isolate Malfunctions	*							-	-	-
3.1.9.1.2.5 Perform Advanced Troubleshooting		*						-	-	-
3.1.9.2 Liquid Oxygen Quantity (LOX) TR: Applicable C-130 Technical Orders										
3.1.9.2.1 Perform Operational Checks								-	-	-
3.1.9.2.2 Perform Indicator Calibration	*							-	-	-
3.1.9.2.3 Isolate Malfunctions	*							-	-	-
3.1.9.2.4 Perform Advanced Troubleshooting		*						-	-	-
3.1.10 HYDRAULIC PRESSURE INDICATING SYSTEM (AFSOC) (GENERAL) TR: Applicable C-130 Technical Orders										
3.1.10.1 Theory of Operation								-	-	-
3.1.10.2 Perform Operational Check								-	-	-
3.1.10.3 Remove / Install Transmitter	*							-	-	-
3.1.10.4 Adjust Transmitters								-	-	-
3.1.10.5 Isolate Malfunctions	*							-	-	-
3.1.10.6 Perform Advanced Troubleshooting		*						-	-	-
3.1.11 MISCELLANEOUS SYSTEMS (AFSOC) (GENERAL)										
3.1.11.1 Fuel Pressure Indicating System TR: Applicable C-130 Technical Orders										
3.1.11.1.1 Manifold										
3.1.11.1.1.1 Theory of Operation	*							-	-	-
3.1.11.1.1.2 Perform Operational Check	*							-	-	-

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
3.1.11.1.1.3 Remove / Install Transmitter	*								-	-	-
3.1.11.1.1.4 Adjust Transmitters									-	-	-
3.1.11.1.1.5 Isolate Malfunctions	*								-	-	-
3.1.11.1.1.6 Perform Advanced Troubleshooting		*							-	-	-
3.1.11.2 Universal Air Refueling Receptacle Slipway Installation											
3.1.11.2.1 Theory of Operation									-	-	-
3.1.11.2.3 Perform Operational Check									-	-	-
3.1.11.2.4 Remove / Install Transmitter	*								-	-	-
3.1.11.2.5 Adjust Transmitters									-	-	-
3.1.11.2.6 Isolate Malfunctions	*								-	-	-
3.1.11.2.7 Perform Advanced Troubleshooting		*							-	-	-
3.2 AC-130H ON-EQUIPMENT MAINTENANCE											
3.2.1 GENERAL ORGANIZATIONAL MAINTENANCE (AFSOC) (AC-130H)											
3.2.1.1 Aircraft Familiarization									-	-	-
3.2.1.2 Major Structure Areas									-	-	-
3.2.1.3 Major Systems									-	-	-
3.2.2 GENERAL FLIGHT CONTROLS (AFSOC) (AC-130H)											
3.2.2.1 Autopilot Signal Switching TR: Applicable C-130 Technical Orders											
3.2.2.1.1 Theory of Operation	*								-	-	-
3.2.2.1.2 Perform Operational Check	*								-	-	-
3.2.2.1.3 Isolate Malfunctions	*								-	-	-
3.2.2.1.4 Perform Advanced Troubleshooting		*							-	-	-
3.2.3 GENERAL NAVIGATION SYSTEMS (AFSOC) (AC-130H)											
3.2.3.1 SKN-2443 Inertial Navigation System TR: Applicable C-130 Technical Orders											
3.2.3.1.1 Theory of Operation	*								-	-	-
3.2.3.1.2 Perform Operational Check	*								-	-	-
3.2.3.1.3 Isolate Malfunctions	*								-	-	-
3.2.3.1.4 Perform Advanced Troubleshooting		*							-	-	-
3.2.4 FLIGHT INSTRUMENTS (AFSOC) (AC-130H)											
3.2.4.1 Pitot / Static TR: Applicable C-130 Technical Orders											
3.2.4.1.1 Remove / Install Wing Tip Static Booms									-	-	-
3.2.5 MISSION SYSTEMS (AFSOC) (AC-130H)											
3.2.5.1 Fire Control / Mission Computer Systems											
3.2.5.1.1 Heads-Up Display System TR: Applicable C-130 Technical											

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
Orders										
3.2.5.1.1.1 Theory of Operation	*							-	-	-
3.2.5.1.1.2 Perform Operational Check	*							-	-	-
3.2.5.1.1.3 Remove / Install										
3.2.5.1.1.3.1 Heads-Up Display Mount								-	-	-
3.2.5.1.1.3.2 Heads-Up Display	*							-	-	-
3.2.5.1.1.3.3 Perform HUD Mount Boresight								-	-	-
3.2.5.1.1.4 Isolate Malfunctions	*							-	-	-
3.2.5.1.1.5 Perform Advanced Troubleshooting		*						-	-	-
3.2.5.2 Mission Computer System TR: Applicable C-130 Technical Orders										
3.2.5.2.1 Theory of Operation	*							-	-	-
3.2.5.2.2 Perform Operational Check	*							-	-	-
3.2.5.2.3 Remove / Install										
3.2.5.2.3.1 Mission Computer Junction Box								-	-	-
3.2.5.2.3.2 Mission Computer								-	-	-
3.2.5.2.4 Perform Trainable Gun Boresight	*							-	-	-
3.2.5.2.5 Perform Trainable Weapons Check	*							-	-	-
3.2.5.2.6 Perform Software Upload	*							-	-	-
3.2.5.2.7 Isolate Malfunctions	*							-	-	-
3.2.5.2.8 Perform Advanced Troubleshooting		*						-	-	-
3.2.5.3 Sensor Slaving System TR: Applicable C-130 Technical Orders										
3.2.5.3.1 Theory of Operation								-	-	-
3.2.5.3.2 Perform Operational Check								-	-	-
3.2.5.3.3 Isolate Malfunctions	*							-	-	-
3.2.5.3.4 Perform Advanced Troubleshooting		*						-	-	-
3.2.5.4 Air Data Measurement System TR: Applicable C-130 Technical Orders										
3.2.5.4.1 Theory of Operation	*							-	-	-
3.2.5.4.2 Perform Operational Check	*							-	-	-
3.2.5.4.3 Isolate Malfunctions	*							-	-	-
3.2.5.4.4 Perform Advanced Troubleshooting		*						-	-	-
3.2.5.5 AN / ASQ-145(V)2 Low Light Level Television Sensor System TR: 1C-130(A)H-2-14										
3.2.5.5.1 System Operation								-	-	-
3.2.5.6 AN / AAQ-26 Infrared Detection System TR: 1C-130(A)H-2-14										
3.2.5.6.1 System Operation								-	-	-
3.3 AC-130U ON-EQUIPMENT MAINTENANCE										
3.3.1 GENERAL ORGANIZATIONAL MAINTENANCE (AFSOC) (AC-130U)										
3.3.1.1 Aircraft Familiarization								-	-	-
3.3.1.2 Major Structure Areas								-	-	-

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
3.3.1.3 Major Systems									-	-	-
3.3.2 GENERAL MAINTENANCE TASKS (AFSOC) (AC-130U)											
3.3.2.1 Open / Close Nose Radome	*								-	-	-
3.3.2.2 Apply Cooling Air to Aircraft									-	-	-
3.3.2.3 Alternate Method of Applying Cooling Air (APU exhaust with -95 cart)									-	-	-
3.3.3 GENERAL NAVIGATION SYSTEMS (AFSOC) (AC-130U)											
3.3.3.1 Inertial Navigation System TR: Applicable C-130 Technical Orders											
3.3.3.1.1 Theory of Operation	*								-	-	-
3.3.3.1.2 Perform Operational Check	*								-	-	-
3.3.3.1.3 Remove / Install INU Diode Module	*								-	-	-
3.3.3.1.4 Isolate Malfunctions	*								-	-	-
3.3.3.1.5 Perform Advanced Troubleshooting		*							-	-	-
3.3.4 MISSION SYSTEMS (AFSOC) (AC-130U)											
3.3.4.1 Fire Control / Mission Computer Systems TR: Applicable C-130 Technical Orders											
3.3.4.1.1 Theory of Operation	*								-	-	-
3.3.4.1.2 Perform Operational Check	*								-	-	-
3.3.4.1.3 Perform Software Up (OFP / CDP)	*								-	-	-
3.3.4.1.4 Perform Trainable Weapons Check	*								-	-	-
3.3.4.1.5 Isolate Malfunctions	*								-	-	-
3.3.4.1.6 Perform Advanced Troubleshooting		*							-	-	-
3.3.4.2 Display Generator System TR: Applicable C-130 Technical Orders											
3.3.4.2.1 Theory of Operation	*								-	-	-
3.3.4.2.2 Perform Operational Check	*								-	-	-
3.3.4.2.3 Isolate Malfunctions	*								-	-	-
3.3.4.2.4 Perform Advanced Troubleshooting		*							-	-	-
3.4 MC-130E ON-EQUIPMENT MAINTENANCE											
3.4.1 GENERAL ORGANIZATIONAL MAINTENANCE (AFSOC) (MC-130E)											
3.4.1.1 Aircraft Familiarization									-	-	-
3.4.1.2 Major Structure Areas									-	-	-
3.4.1.3 Major Systems									-	-	-
3.4.2 GENERAL NAVIGATION SYSTEMS (AFSOC) (MC-130E)											
3.4.2.1 Computer Aided Navigation System TR: Applicable C-130 Technical Orders											
3.4.2.1.1 Theory of Operation									-	-	-
3.4.2.1.2 Remove / Install Mission Computer									-	-	-
3.4.2.1.3 Perform INU Alignment									-	-	-

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.4.2.1.4 Perform Software Upload										
3.4.2.1.4.1 Mission Computer	*							-	-	-
3.4.2.1.4.2 Control Display Unit	*							-	-	-
3.4.2.1.5 Perform Operational Checks	*							-	-	-
3.4.2.1.6 Isolate Malfunctions	*							-	-	-
3.4.2.1.7 Perform Advanced Troubleshooting		*						-	-	-
3.4.2.2 Inertial Navigation System TR: Applicable C-130 Technical Orders										
3.4.2.2.1 Theory of Operation	*							-	-	-
3.4.2.2.2 Perform INU Alignment		*						-	-	-
3.4.2.2.3 Perform Operational Check	*							-	-	-
3.4.2.2.4 Isolate Malfunctions	*							-	-	-
3.4.2.2.5 Perform Advanced Troubleshooting		*						-	-	-
3.4.3 MISSION SYSTEMS (AFSOC) (MC-130E)										
3.4.3.1 NVG / HUD System TR: Applicable C-130 Technical Orders										
3.4.3.1.1 Theory of Operation								-	-	-
3.4.3.1.2 Perform Operational Check	*							-	-	-
3.4.3.1.3 Isolate Malfunctions	*							-	-	-
3.4.3.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.4.3.2 Digital Mapping Interface System TR: Applicable C-130 Technical Orders										
3.4.3.2.1 Theory of Operation								-	-	-
3.4.3.2.2 Perform Operational check	*							-	-	-
3.4.3.2.3 Isolate Malfunctions	*							-	-	-
3.4.3.2.4 Perform Advanced Troubleshooting		*						-	-	-
3.4.3.3 Air Data System TR: Applicable C-130 Technical Orders										
3.4.3.3.1 Theory of Operation	*							-	-	-
3.4.3.3.2 Perform Operational Check	*							-	-	-
3.4.3.3.3 Isolate Malfunctions	*							-	-	-
3.4.3.3.4 Perform Advanced Troubleshooting		*						-	-	-
3.4.3.4 In-Flight Refueling (IFR)										
3.4.3.4.1 Fuel Flow Indicating System TR: Applicable C-130 Technical Orders										
3.4.3.4.1.1 Theory of Operation	*							-	-	-
3.4.3.4.1.2 Perform Operational check	*							-	-	-
3.4.3.4.1.3 Isolate Malfunctions	*							-	-	-
3.4.3.4.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.4.3.5 Fuel Pressure Indicating System TR: Applicable C-130 Technical Orders										
3.4.3.5.1 Theory of Operation	*							-	-	-
3.4.3.5.2 Perform Operational Check	*							-	-	-
3.4.3.5.3 Remove / Install Transmitter								-	-	-

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.4.3.5.4 Adjust Transmitter								-	-	-
3.4.3.5.5 Isolate Malfunctions	*							-	-	-
3.4.3.5.6 Perform Advanced Troubleshooting		*						-	-	-
3.5 MC-130H ON-EQUIPMENT MAINTENANCE										
3.5.1 GENERAL ORGANIZATIONAL MAINTENANCE (AFSOC) (MC-130H)										
3.5.1.1 Aircraft Familiarization								-	-	-
3.5.1.2 Major Structure Areas								-	-	-
3.5.1.3 Major Systems								-	-	-
3.5.2 MISSION SYSTEMS (AFSOC) (MC-130H)										
3.5.2.1 Controls and Display Systems TR: Applicable C-130 Technical Orders										
3.5.2.1.1 Load Control Display Computer SFP	*							-	-	-
3.5.2.1.2 Remove / Install Cursor Switch								-	-	-
3.5.2.1.3 Perform Operational Check	*							-	-	-
3.5.2.1.4 Isolate Malfunctions	*							-	-	-
3.5.2.1.5 Perform Advanced Troubleshooting		*						-	-	-
3.5.2.2 Mission Data Processing System TR: Applicable C-130 Technical Orders										
3.5.2.2.1 Theory of Operation								-	-	-
3.5.2.2.2 System Tie-In / Integration								-	-	-
3.5.2.2.3 Perform Operational Checks	*							-	-	-
3.5.2.2.4 Remove / Install Components								-	-	-
3.5.2.2.5 Adjust Control Column Sensor								-	-	-
3.5.2.2.6 Load Mission Computer OFP using DTS	*							-	-	-
3.5.2.2.7 Isolate Malfunctions	*							-	-	-
3.5.2.2.8 Perform Advanced Troubleshooting		*						-	-	-
3.5.3 GENERAL NAVIGATION SYSTEM (AFSOC) (MC-130H)										
3.5.3.1 Inertial Navigation System TR: Applicable C-130 Technical Orders										
3.5.3.1.1 Theory of Operation	*							-	-	-
3.5.3.1.2 Perform Operational Check	*							-	-	-
3.5.3.1.3 Discharge / Charge INS Battery								-	-	-
3.5.3.1.4 Remove / Install Flow Sensor								-	-	-
3.5.3.1.5 Isolate Malfunctions	*							-	-	-
3.5.3.1.6 Perform Advanced Troubleshooting		*						-	-	-
3.5.4 AIR DATA SYSTEMS (AFSOC) (MC-130H)										
3.5.4.1 Pitot / Static TR: Applicable C-130 Technical Orders										
3.5.4.1.1 Remove / Install Pressure Pulse Attenuator								-	-	-
3.5.5 ENGINE INDICATING SYSTEM										

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
(AFSOC) (MC-130H)										
3.5.5.1 APU Exhaust Gas Temperature Indicating System TR: Applicable C-130 Technical Orders										
3.5.5.1.1 Theory of Operation	*							-	-	-
3.5.5.1.2 Perform Operational Check	*							-	-	-
3.5.5.1.3 Isolate Malfunctions	*							-	-	-
3.6 MC-130P ON-EQUIPMENT MAINTENANCE										
3.6.1 GENERAL ORGANIZATIONAL MAINTENANCE (AFSOC) (MC-130P)										
3.6.1.1 Aircraft Familiarization								-	-	-
3.6.1.2 Major Structure Areas								-	-	-
3.6.1.3 Major Systems								-	-	-
3.6.2 MISSION SYSTEMS (AFSOC) (MC-130P)										
3.6.2.1 Fuel Flow Indicating System										
3.6.2.1.1 Theory of Operation								-	-	-
3.6.2.1.2 Perform Operational Check								-	-	-
3.6.2.1.3 Isolate Malfunctions	*							-	-	-
3.6.2.2 Fuel Pressure Indicating System TR: Applicable C-130 Technical Orders										
3.6.2.2.1 Theory of Operation	*							-	-	-
3.6.2.2.2 Perform Operational Check	*							-	-	-
3.6.2.2.3 Remove / Install Transmitter								-	-	-
3.6.2.2.4 Adjust Transmitter								-	-	-
3.6.2.2.5 Isolate Malfunctions	*							-	-	-
3.6.2.2.6 Perform Advanced Troubleshooting		*						-	-	-
3.7 MC-130W ON-EQUIPMENT MAINTENANCE										
3.7.1 GENERAL ORGANIZATIONAL MAINTENANCE (AFSOC) (MC-130W)										
3.7.1.1 Aircraft Familiarization								-	-	-
3.7.1.2 Major Structural Areas								-	-	-
3.7.1.3 Major Systems								-	-	-
3.7.2 GENERAL NAVIGATION SYSTEMS (AFSOC) (MC-130W)										
3.7.2.1 Digital Mapping Interface System										
3.7.2.1.1 Theory of Operation	*							-	-	-
3.7.2.1.2 Perform Operational Check	*							-	-	-
3.7.2.1.3 Isolate Malfunctions	*							-	-	-
3.7.2.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.7.2.2 Flight Director System MC-130W										
3.7.2.2.1 Theory of Operation	*							-	-	-
3.7.2.2.2 Perform Operational Check	*							-	-	-
3.7.2.2.3 Remove / Install Components	*							-	-	-
3.7.2.2.4 Isolate Malfunctions	*							-	-	-

C-130 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
3.7.2.2.5 Perform Advanced Troubleshooting		*							-	-	-
3.7.3 FLIGHT INSTRUMENTS (AFSOC) (MC-130W)											
3.7.3.1 Remove / Install Combined Pitot / Static Head	*								-	-	-
3.7.4 MCARS (AFSOC) (MC-130W)											
3.7.4.1 Fuel Pressure System Operation	*								-	-	-
3.7.4.2 Remove / Install Fuel Pressure Transmitter	*								-	-	-
3.7.4.3 Adjust Fuel Pressure Transmitter	*								-	-	-

SOF/PR OFF EQUIPMENT TRAINING REQUIREMENTS

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

Attachment 4 AFSOC OFF EQUIPMENT Training Requirements

NOTE 1: The apprentice course, J3ABR2A2X2 XXXX, SOF/PR Integrated Instrument and Flight Control Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

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

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

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

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

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

4.1 GENERAL FLIGHT CONTROLS (AFSOC) (OFF-EQUIPMENT MAINTENANCE)											
4.1.1 AutoPilot Signal Switching System TR: Local Checklist											
4.1.1.1 Bench Check / Repair								-	-	-	
4.1.1.2 Autopilot Signal Panel								-	-	-	
4.1.1.3 Signal Source Select Panel								-	-	-	
4.1.1.4 Autopilot Signal Switching Unit								-	-	-	
4.2 GENERAL COMPUTER COMPLEX (AFSOC) (OFF-EQUIPMENT MAINTENANCE)											
4.2.1 Mission Data Processing System TR: 33D2-8-413-8-1											
4.2.1.1 Bench Check / Load Mission Computer OPF using PLV or CAPRE								-	-	-	
4.2.1.2 Bench Check INU								-	-	-	
4.2.2 Fire Control / Data Management Center											
4.2.2.1 Bench Check											
4.2.2.1.1 Display Generator Unit TR: 12R5-4-235-8-1								-	-	-	
4.2.2.1.2 Battle Management Multiplexer TR: 12R5-4-236-8-1								-	-	-	
4.2.2.2 Bench Check / Repair											
4.2.2.2.1 Electronic Control Unit TR: 11W1-15-16-8-1								-	-	-	
4.2.2.2.2 Loader Weapons Control Panels TR: 11W1-15-16-8-2, 11W2-8-33-8-1								-	-	-	
4.2.2.2.3 Cockpit Mounted Multifunction Display TR: 12R2-4-292-8-1								-	-	-	
4.2.2.2.4 Horizontal Situation Video Display TR: 12R2-4-297-8-1								-	-	-	
4.2.2.2.5 Display Generator Unit TR: 12R2-4-314-8-1								-	-	-	
4.2.2.2.6 Battle Management Multifunction Display								-	-	-	

SOF/PR OFF EQUIPMENT TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: 12S6-4-69-8-1										
4.3 GENERAL NAVIGATION SYSTEMS (AFSOC) (OFF-EQUIPMENT MAINTENANCE)										
4.3.1 C-12 Compass System TR: 5N1-2-15-2										
4.3.1.1 Bench Check										
4.3.1.1.1 Digital Controller								-	-	-
4.3.1.1.2 Directional Gyro								-	-	-
4.3.1.1.3 Amplifier								-	-	-
4.3.1.1.4 Remote Magnet Compensator								-	-	-
4.3.1.1.5 Magnetic Azimuth Detector								-	-	-
4.3.2 Flight Director Systems										
4.3.2.1 Bench Check										
4.3.2.1.1 Attitude Directional Indicator (ADI) TR: 5F8-3-20-13								-	-	-
4.3.2.1.2 Horizontal Situation Indicator (HSI) TR: 33A1-3-147-31								-	-	-
4.3.2.1.3 Flight Director Computer TR: 5F5-5-7-13, 5F5-5-5-2, 5F5-5-4-2, 5F5-7-3								-	-	-
4.3.2.1.4 MD-1 Vertical Gyro TR: 5F1-3-2-12								-	-	-
4.3.2.1.5 Rate of Turn Gyro TR: 5F10-4-4-2								-	-	-
4.3.2.1.6 Rate Switching Gyro TR: 5F6-4-6-3, 5F6-4-3-23								-	-	-
4.3.3 Inertial Navigation System										
4.3.3.1 Bench Check										
4.3.3.1.1 Mission Computer J-Box TR: 11F8-4-19-1								-	-	-
4.3.3.1.2 Head-Up Display TR: 11F15-3-20-8-1								-	-	-
4.3.3.1.3 Pilots Display Unit TR: 5N5-15-5-8-1								-	-	-
4.3.3.1.4 Mini Air Data Computer TR: 5N5-15-5-8-1								-	-	-
4.3.3.1.5 Alpha Beta Computer TR: 5N5-15-5-8-1								-	-	-
4.3.3.1.6 Data Transfer Module TR: 33D2-8-413-8-1								-	-	-
4.3.4 Computer Aided Navigation System (CANS) (MC-130E)										
4.3.4.1 Bench Check										
4.3.4.1.1 Mission Computer TR: 33D7-44-369-1								-	-	-
4.3.4.1.2 Control Display Unit (CDU) TR: 33D7-44-369-1								-	-	-

SOF/PR OFF EQUIPMENT TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
4.3.4.1.3 GSDAI TR: 33D7-44-369-1									-	-	-
4.3.4.1.4 Inertial Navigation Unit TR: 33D7-44-369-1									-	-	-
4.3.4.1.5 Data Transfer Unit TR: 33D2-8-413-8-1									-	-	-
4.3.4.1.6 Attitude Stability Amplifier TR: 33D7-44-369-1									-	-	-
4.3.4.1.7 Steering Signal Interface Unit TR: 33D7-44-369-1									-	-	-
4.3.4.1.8 Load Mission Computer using PLV or CAPRE TR: TO 33D2--8-413-8-1									-	-	-
4.4 FLIGHT INSTRUMENTS (AFSOC) (OFF- EQUIPMENT MAINTENANCE)											
4.4.1 Bench Check											
4.4.1.1 Altimeters TR: 5F3-3-19-2, 5F3-3-16-2, 5F3-3-3-3, 5F3-3-8-3, 5F3-3- 3-13, 5F3-2-3-3									-	-	-
4.4.1.2 Vertical Velocity Indicator (VVI) TR: 5F8-9-13, 5F8-9-8-3, 5F8-9-12-3									-	-	-
4.4.1.3 Airspeed Indicator TR: 5F8-2-25-6, 5F8-2-27-43, 5F8-2-58- 3, 5F8-2-9-3, 5F8 -2-5-3									-	-	-
4.4.1.4 Air Data Computer TR: 5F5-4-46-8-1									-	-	-
4.5 ENGINE INDICATING SYSTEM (AFSOC) (OFF-EQUIPMENT MAINTENANCE)											
4.5.1 Bench Check											
4.5.1.1 Turbine Inlet Temperature Indicator TR: 1C-130H-2-00GE-00-1									-	-	-
4.5.1.2 Tachometer Indicator TR: 1C-130H-2-00GE-00-1									-	-	-
4.5.1.3 Tachometer Generator TR: 1C-130H-2-00GE-00-1									-	-	-
4.5.1.4 Torque Indicator TR: 1C-130H-2-00GE-00-1									-	-	-
4.5.1.5 Oil Pressure Indicator TR: 1C-130H-2-00GE-00-1									-	-	-
4.5.1.6 Fuel Flow Indicator TR: 1C-130H-2-00GE-00-1									-	-	-
4.5.1.7 Fuel Flow Power Supply TR: 1C-130H-2-00GE-00-1									-	-	-
4.6 LIQUID QUANTITY (AFSOC) (OFF- EQUIPMENT MAINTENANCE)											
4.6.1 Bench Check											
4.6.1.1 Oil Quantity Indicator TR: 33A1-9-36-1									-	-	-

SOF/PR OFF EQUIPMENT TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
4.6.1.2 Oil Quantity Transmitter TR: 5L14-3-8-323									-	-	-
4.6.1.3 Fuel Quantity Summation Unit TR: 5L14-5-4-3									-	-	-
4.7 MISCELLANEOUS SYSTEMS (AFSOC) (OFF-EQUIPMENT MAINTENANCE)											
4.7.1 Slave Switching System											
4.7.1.1 Bench Check 26 VAC Reference Panel TR: Local Checklist									-	-	-
4.7.2 Bench Check / Repair											
4.7.2.1 Slave Switching Unit TR: Local Checklist									-	-	-
4.7.2.2 Switching Unit Control TR: Local Checklist									-	-	-
4.7.2.3 Equipment Power Panel TR: Local Checklist									-	-	-
4.7.3 Trainable Weapons Fire Control Interface											
4.7.3.1 Bench Check Ready / Fire Panel TR: Local Checklist									-	-	-
4.7.3.2 Boresight Adjust Panel TR: 1C-130(A)H-2-14									-	-	-

HH-60 TRAINING REQUIREMENTS

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

Attachment 5 HH-60 Training Requirements

NOTE 1: The apprentice course, J3ABR2A2X2 XXXX, SOF/PR Integrated Instrument and Flight Control Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

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

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

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

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

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

5.1 GENERAL MAINTENANCE TASKS (HH-60) TR: TO 00-20 Series / TO 1H-60(H)G TOs										
5.1.1 Ensure Aircraft Safe for Maintenance	*							-	-	-
5.1.2 Statically Ground Aircraft	*							-	-	-
5.1.3 Apply / Disconnect External Power	*							-	-	-
5.1.4 Operate APU								-	-	-
5.1.5 Inspect / Use Ground Maintenance Stands								-	-	-
5.1.6 Perform Aircraft Wash								-	-	-
5.1.7 Open / Close Engine Cowling								-	-	-
5.1.8 Remove / Install Aircraft Maintenance Access Panels								-	-	-
5.1.9 Use Aircraft Interphone System								-	-	-
5.1.10 Perform Aircraft Marshaling Procedures								-	-	-
5.1.11 Launch / Recover Aircraft								-	-	-
5.1.12 Common Removal / Install (HH-60) Qualification on the below two line items qualifies the individual on all similar system components unless identified separately in the specific system or in writing by the supervisor.										
5.1.12.1 Instrument Panel Components	*							-	-	-
5.1.12.2 Floor / Shelf Mounted Components	*							-	-	-
5.1.13 Jack Aircraft										
5.1.13.1 Jack Team Member								-	-	-
5.1.13.2 Jack Team Supervisor								-	-	-
5.1.14 Refuel / Defuel Aircraft										
5.1.14.1 Refuel / Defuel Team Member								-	-	-
5.1.14.2 Refuel / Defuel Supervisor								-	-	-
5.1.15 Tow Aircraft										
5.1.15.1 Perform Wing / Tail Walker Duties								-	-	-
5.1.15.2 Brake Operator								-	-	-
5.1.15.3 Tow Vehicle Operator								-	-	-
5.1.15.4 Tow Supervisor								-	-	-
5.1.16 Fold / Unfold Helicopter										
5.1.16.1 Aircraft Tear Down								-	-	-

HH-60 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC	
5.1.16.2 Aircraft Build Up									-	-	-
5.1.17 Perform Aircraft Inspections											
5.1.17.1 Special Inspection									-	-	-
5.1.17.2 Periodic Inspection									-	-	-
5.1.17.3 10 Hour / 14 Day Inspection									-	-	-
5.2 GENERAL FLIGHT CONTROL SYSTEMS (HH-60)											
5.2.1 Automatic Flight Control System (AFCS) TR: 1H-60(H)G-25, 2-11, 2-12, 2-13											
5.2.1.1 Digital AFCS (Digital SAS-2 and Trim)											
5.2.1.1.1 Theory of Operation	*								-	-	-
5.2.1.1.2 Perform Operational Check	*								-	-	-
5.2.1.1.3 Remove / Install											
5.2.1.1.3.1 Rate Gyro Package	*								-	-	-
5.2.1.1.3.2 Rate Gyro (internal)									-	-	-
5.2.1.1.3.3 Rate Gyro Assembly									-	-	-
5.2.1.1.3.4 Pitch Trim Servo	*								-	-	-
5.2.1.1.3.5 Yaw Trim Servo	*								-	-	-
5.2.1.1.3.6 Roll Trim Servo	*								-	-	-
5.2.1.1.4 Adjust / Calibrate											
5.2.1.1.4.1 Collective Position Sensor									-	-	-
5.2.1.1.4.2 Tail Rotor Pedal Trim Release Switches									-	-	-
5.2.1.1.4.3 Isolate Malfunctions	*								-	-	-
5.2.1.1.4.4 Perform Advanced Troubleshooting		*							-	-	-
5.2.2 ANALOG SAS-1 TR: 1H-60(H)G-2-5, 2-11, 2-12, 2-13											
5.2.2.1 Theory of Operation	*								-	-	-
5.2.2.2 Perform Operational Check	*								-	-	-
5.2.2.3 Remove / Install SAS Amplifier									-	-	-
5.2.2.4 Isolate Malfunctions	*								-	-	-
5.2.2.5 Perform Advanced Troubleshooting		*							-	-	-
5.2.3 Stabilator Control System TR: 1B-60(H)G-2-5, 2-11, 2-12, 2-13											
5.2.3.1 Theory of Operation	*								-	-	-
5.2.3.2 Perform Operational Check	*								-	-	-
5.2.3.3 Remove / Install											
5.2.3.3.1 Stabilator Amplifier	*								-	-	-
5.2.3.3.2 Lateral Accelerometer	*								-	-	-
5.2.3.3.3 Stabilator Actuator	*								-	-	-
5.2.3.3.4 Stabilator Position and Limit Assembly									-	-	-
5.2.3.4 Perform Adjustments / Calibration											
5.2.3.4.1 Stabilator Actuator Initial Rig	*								-	-	-
5.2.3.4.2 Stabilator Amplifier Bias	*								-	-	-
5.2.3.4.3 Stabilator Amplifier Null	*								-	-	-
5.2.3.4.4 Stabilator Position and Limit Assembly									-	-	-

HH-60 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.2.3.5 Isolate Malfunctions	*							-	-	-
5.2.3.6 Perform Advanced Troubleshooting		*						-	-	-
5.2.4 Altitude Hold and Hover Stabilization System (AHHS) TR: 1H-60(H)G-2-5, 2-11, 2-12, 2-13										
5.2.4.1 Theory of Operation	*							-	-	-
5.2.4.2 Perform Operational Check	*							-	-	-
5.2.4.3 Remove / Install										
5.2.4.3.1 Collective Trim Servo	*							-	-	-
5.2.4.3.2 SEU / SIU Mount Assembly								-	-	-
5.2.4.4 Adjust SEU Null	*							-	-	-
5.2.4.5 Isolate Malfunctions	*							-	-	-
5.2.4.6 Perform Advanced Troubleshooting		*						-	-	-
5.3 GENERAL COMPUTER COMPLEX (HH-60)										
5.3.1 Controls and Displays TR: 1H-60(H)G-2-12-2-13										
5.3.1.1 Video Symbology Display System (VSIDS)										
5.3.1.1.1 Theory of Operation	*							-	-	-
5.3.1.1.2 Perform Operational Check	*							-	-	-
5.3.1.1.3 Remove / Install										
5.3.1.1.3.1 Inclinator								-	-	-
5.3.1.1.4 Isolate Malfunctions	*							-	-	-
5.3.1.1.5 Perform Advanced Troubleshooting		*						-	-	-
5.3.2 Data Transfer System TR: 1H-60(H)G-2-12, 2-13										
5.3.2.1 Theory of Operation	*							-	-	-
5.3.2.2 Perform Operational Check	*							-	-	-
5.3.2.3 Load Programs / Software								-	-	-
5.3.2.4 Isolate Malfunctions	*							-	-	-
5.3.2.5 Perform Advanced Troubleshooting		*						-	-	-
5.3.3 Electromagnet Environment Protection (EMEP)										
5.3.3.1 Theory of Operation	*							-	-	-
5.3.3.2 Perform Operational Check	*							-	-	-
5.3.3.3 Remove / Install										
5.3.3.3.1 Pin Filter Adapter	*							-	-	-
5.4 GENERAL NAVIGATION SYSTEMS (HH-60(M)G)										
5.4.1 Command Instrument System (CIS) TR: 1H-60(H)G-2-12, 2-13										
5.4.1.1 Theory of Operation	*							-	-	-
5.4.1.2 Perform Operational Check	*							-	-	-
5.4.1.3 Isolate Malfunctions	*							-	-	-
5.4.1.4 Perform Advanced Troubleshooting		*						-	-	-
5.4.2 Inertial Navigation System (INS)										

HH-60 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
TR: 1H-60(H)G-2-12-2-13										
5.4.2.1 Theory of Operation	*							-	-	-
5.4.2.2 Perform Operational Check	*							-	-	-
5.4.2.3 Isolate Malfunctions	*							-	-	-
5.4.2.4 Perform Advanced Troubleshooting		*						-	-	-
5.4.3 Compass Systems										
5.4.3.1 Compass System AN / ASN-43 TR: 1H-60(H)G-2-12, 2-13										
5.4.3.1.1 Theory of Operation	*							-	-	-
5.4.3.1.2 Perform Operational Check	*							-	-	-
5.4.3.1.3 Remove / Install										
5.4.3.1.3.1 Directional Gyroscope	*							-	-	-
5.4.3.1.3.2 Perform Calibration Adjustments / Compass Swing								-	-	-
5.4.3.1.3.3 Isolate Malfunctions	*							-	-	-
5.4.3.1.3.4 Perform Advanced Troubleshooting		*						-	-	-
5.4.3.2 Standby Compass TR: 1H-60(H)G-2-4, 5N3-2-1- 101										
5.4.3.2.1 Theory of Operation								-	-	-
5.4.3.2.2 Perform Operational Check								-	-	-
5.4.3.2.3 Remove / Install Standby Compass								-	-	-
5.4.3.2.4 Perform Calibration Adjustments / Compass Swing								-	-	-
5.4.3.2.5 Isolate Malfunctions	*							-	-	-
5.5 FLIGHT INSTRUMENTS (HH-60(M)G) TR: Applicable TOs										
5.5.1 Pitot / Static System TR: 1H-60(H)G-2-4, 2-9, 2-13										
5.5.1.1 Theory of Operation	*							-	-	-
5.5.1.2 Perform Operational Check	*							-	-	-
5.5.1.3 Remove / Install										
5.5.1.3.1 Pitot Static Tube								-	-	-
5.5.1.3.2 Pitot Static Lines								-	-	-
5.5.1.3.3 Airspeed Air Data Buffer								-	-	-
5.5.1.4 Adjust / Calibrate										
5.5.1.4.1 Altimeters	*							-	-	-
5.5.1.4.2 Vertical Velocity Indicators	*							-	-	-
5.5.1.5 Isolate Malfunctions	*							-	-	-
5.5.1.6 Perform Advanced Troubleshooting		*						-	-	-
5.5.2 Attitude Indicating System TR: 1H-60(H)G-2-12, 2-13										
5.5.2.1 Theory of Operation	*							-	-	-
5.5.2.2 Perform Operational Check	*							-	-	-
5.5.2.3 Remove / Install										
5.5.2.3.1 Vertical Gyro	*							-	-	-
5.5.2.4 Isolate Malfunctions	*							-	-	-

HH-60 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.5.2.5 Perform Advanced Troubleshooting		*						-	-	-
5.5.3 Rate Of Turn Indicating System TR: 1H-60(H)G-2-12, 2-13										
5.5.3.1 Theory of Operation	*							-	-	-
5.5.3.2 Perform Operational Check	*							-	-	-
5.5.3.3 Isolate Malfunctions	*							-	-	-
5.5.3.4 Perform Advanced Troubleshooting		*						-	-	-
5.5.4 Air Temperature TR: 1H-60(H)G-2-4										
5.5.4.1 Theory of Operation	*							-	-	-
5.5.4.2 Perform Operational Check								-	-	-
5.5.4.3 Remove / Install Air Temp Gauge								-	-	-
5.5.4.4 Isolate Malfunctions	*							-	-	-
5.5.4.5 Perform Advanced Troubleshooting		*						-	-	-
5.5.5 Aircraft Clock TR: 1H--60(H)G-2-4										
5.5.5.1 Theory of Operation								-	-	-
5.5.5.2 Perform Operational Check	*							-	-	-
5.5.6 Vertical Instrument Display System (VIDS) TR: 1H-60(H)G-2-4, 2-9										
5.5.6.1 Theory of Operation								-	-	-
5.5.6.2 Perform Operational Check	*							-	-	-
5.5.6.3 Remove / Install										
5.5.6.3.1 Display Light Segments	*							-	-	-
5.5.6.4 Isolate Malfunctions	*							-	-	-
5.5.6.5 Perform Advanced Troubleshooting		*						-	-	-
5.6 FUEL QUANTITY INDICATING SYSTEMS (HH-60) TO 1H-60(H)G-2-4 / TO 1H-60(H)G-2-9										
5.6.1 Main Fuel Quantity Indicating System TR: 1H-60(H)G-2-4, 2-9										
5.6.1.1 Theory of Operation	*							-	-	-
5.6.1.2 Perform Operational Check	*							-	-	-
5.6.1.3 Remove / Install										
5.6.1.3.1 Probe								-	-	-
5.6.1.3.2 Probe Wiring Harness								-	-	-
5.6.1.3.3 Calibrate System	*							-	-	-
5.6.1.4 Isolate Malfunctions	*							-	-	-
5.6.1.5 Perform Advanced Troubleshooting		*						-	-	-
5.6.2 Enhanced Fuel Quantity Indicating Systems TR: 1H-60(H)G-2-4, 2-9										
5.6.2.1 Theory of Operation	*							-	-	-
5.6.2.2 Perform Operational Check	*							-	-	-
5.6.2.3 Remove / Install										
5.6.2.3.1 Probe								-	-	-

HH-60 TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training/Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.6.2.3.2 Probe Wiring Harness								-	-	-
5.6.2.4 Isolate Malfunctions	*							-	-	-
5.6.2.5 Perform Advanced Troubleshooting		*						-	-	-
5.7 MISCELLANEOUS SWITCH PANEL (HH-60) TR: TO 1H-60(H)G-2-13										
5.7.1 Theory of Operation	*							-	-	-
5.7.2 Perform Operational Check								-	-	-
5.7.3 Isolate Malfunctions	*							-	-	-
5.7.4 Perform Advanced Troubleshooting		*						-	-	-
5.8 OPERATE / MAINTAIN TEST EQUIPMENT (HH-60) TR: Applicable Aircraft -2 TOs / TO -33 TOs										
5.8.1 STAB / SAS Test Set								-	-	-
5.8.2 VIDS Test Set (flight-line)								-	-	-
5.8.3 VIDS Test Set (flight-line / shop)								-	-	-

AVIONICS FUNDAMENTAL TRAINING REQUIREMENTS

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

Attachment 6 – AVIONICS FUNDAMENTALS TRAINING REQUIREMENTS

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

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

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

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

6.1 AVIONICS SUPPORT SUBJECTS										
6.1.1 Safety								B	-	-
6.1.2 First Aid								A	-	-
6.1.3 Electrostatic Discharge (ESD) Control								B	-	-
6.1.4 Electromagnetic Effects (EMP/EMI)								B	-	-
6.1.5 Metric Notation										
6.1.5.1 Powers of Ten								B	-	-
6.1.5.2 Electrical Prefixes								B	-	-
6.1.6 Digital Numbering systems								A	-	-
6.1.7 Common Tools								A	-	-
6.1.8 Technical Publications								A	-	-
6.1.9 Documentation								A	-	-
6.2 TEST EQUIPMENT										
6.2.1 Use Digital Multimeter								2b	-	-
6.2.2 Use Oscilloscope								2b	-	-
6.2.3 Wave Generators								A	-	-
6.3 BASIC ELECTRICITY										
6.3.1 Direct Current (DC)								B	-	-
6.3.2 Alternating Current (AC)								B	-	-
6.3.3 Resistance Theory								B	-	-
6.3.3.1 Measure Resistance								2b	-	-
6.3.4 Capacitance Theory								B	-	-
6.3.5 Inductance Theory								B	-	-
6.4 Electromagnetic Devices										
6.4.1 Transformers								B	-	-
6.4.2 Relays and Solenoids										
6.4.2.1 Theory								B	-	-
6.4.2.2 Troubleshoot Relay								2b	-	-
6.4.3 Motor Theory										
6.4.3.1 DC								A	-	-
6.4.3.2 AC								A	-	-
6.4.4 Generator Theory										
6.4.4.1 DC								A	-	-
6.4.4.2 AC								A	-	-
6.4.5 Synchro/Servo								B	-	-
6.4.6 Transducer								B	-	-
6.5 Solid State Devices										
6.5.1 Theory								A	-	-
6.5.2 Diodes (LED, Zener, etc)								A	-	-
6.5.3 Integrated Circuits								A	-	-
6.5.4 Operational Amplifiers								A	-	-
6.6 Power Supply Circuits										
6.6.1 Theory								B	-	-

AVIONICS FUNDAMENTAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.7 Wave Generating Circuits										
6.7.1 Theory								A	-	-
6.8 Digital Logic Circuits										
6.8.1 Theory								A	-	-
6.8.2 Gates								A	-	-
6.8.3 Flip Flops								A	-	-
6.8.4 Digital to Analog and Analog to Digital Converters								A	-	-
6.9 Basic Computer & Network Fundamentals										
6.9.1 Theory								A	-	-
6.9.2 Network Components								A	-	-
6.9.3 Protocols								A	-	-
6.9.4 Topologies (Architecture)								A	-	-
6.10 Basic Communications										
6.10.1 Radio Frequency Theory								A	-	-
6.10.2 Frequency Spectrum								A	-	-
6.10.3 Modulation (AM/FM)								A	-	-
6.10.4 Demodulation (AM/FM)								A	-	-
6.10.5 Receivers/Transmitters								A	-	-
6.10.6 Transmission Mediums Theory								A	-	-
6.10.7 Waveguides								A	-	-
6.10.8 Data Buses								A	-	-
6.10.9 Fiber Optics								A	-	-
6.10.10 Coaxial Cables								A	-	-
6.10.11 Antennas								A	-	-
6.11 Assemble Solder Type Connections										
6.11.1 Terminal Connection								1b	-	-
6.11.2 Multipin Connector								1b	-	-
6.11.3 Coaxial Connector								1b	-	-
6.11.4 Desolder Procedures								1b	-	-
6.12 Assemble Solderless Type Connections										
6.12.1 Coaxial Connector								1b	-	-
6.12.2 Multipin Connector								1b	-	-
6.12.3 Twin-axial Connector (Data Bus)								1b	-	-
6.12.4 Crimped Connection										
6.12.4.1 Terminal Lugs								1b	-	-
6.12.4.2 Wire Splice								1b	-	-
6.12.5 Shield Termination								1b	-	-
6.13 General Maintenance Practices										
6.13.1 Assemble Multipin Connector Harness								1b	-	-
6.13.2 Secure Cable Harness								1b	-	-
6.13.3 Use Safety Wire								1b	-	-
6.13.4 Troubleshooting Procedures										
6.13.4.1 Isolate Wire Open								1b	-	-
6.13.4.2 Isolate Wire Short								1b	-	-

AVIONICS FUNDAMENTAL TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.13.4.3 Isolate Voltage Fault on Multipin Connector Harness								1b	-	-
6.13.4.4 Isolate Crossed Connection on Multipin Connector Harness								1b	-	-

STS 2AX7X

AEROSPACE MAINTENANCE CRAFTSMAN

		4. Proficiency Codes Used To Indicate Training/Information Provided			
1. Tasks Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		Course	CDC	Course	CDC
Attachment 7 – AEROSPACE MAINTENANCE CRAFTSMAN TRAINING REQUIREMENTS					
NOTE 1: Columns 2 and 3 are deleted from this STS because all items are SUBJECT KNOWLEDGE LEVEL only and require no certification.					
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision.					
NOTE 3: This attachment is to be used in conjunction with other attachments in applicable CFETPs.					
NOTE 4: Personnel must complete CDC requirements on all MDSs/attachments.					
NOTE 5: This attachment is to be used as a correlation document for the 2AX7X 7-level Aerospace Maintenance Craftsman CDCs.					
7.1.	MAINTENANCE PHILOSOPHY AND POLICY				
7.1.1.	Aircraft and Equipment Readiness TR: AFI 21-101				A
7.1.2.	Maintenance Concept TR: AFI 21-101 and AFI 21-129				A
7.1.3.	Reliability and Maintainability (R&M) TR: AFI 21-101, AFI 21-118 and TO 00-35D-54				A
7.1.4.	Operating Instructions (OI) TR: AFI 21-101 and AFI 33-360				A
7.1.5.	Maintenance Information Systems (MIS) TR: AFCSM 21-556 Volume 2, AFI 21-101, AFI 21-116, and TO 00-20-2				B
7.1.6.	Maintenance Metrics TR: AFI 21-103 and AFTTP 3-3				A
7.1.7.	Maintenance Repair Priorities TR: AFI 21-101				A
7.1.8.	Historical Aircraft and Equipment Records TR: AFI 21-101 and TO 00-20-1				A
7.2.	MAINTENANCE ORGANIZATION KEY LEADER RESPONSIBILITIES				
7.2.1.	Wing Commander (WG/CC) TR: AFI 21-101 and AFI 38-101				A
7.2.2.	Wing Vice Commander (WG/CV) TR: AFI 21-101 and AFI 38-101				A
7.2.3.	Maintenance Group Commander (MXG/CC) TR: AFI 21-101 and AFI 38-101				A
7.2.4.	Maintenance Group Deputy Commander (MXG/CD) TR: AFI 21-101				A
7.2.5.	MXG Superintendent (SUPT) TR: AFI 21-101				A
7.2.6.	Squadron Commander (SQ/CC) TR: AFI 21-101				A
7.2.7.	Maintenance Operations Officer (MOO)/Maintenance Superintendent (MX SUPT) TR: AFI 21-101				A
7.2.8.	Flight Commander/Flight Chief TR: AFI 21-101				A
7.2.9.	AMU OIC/Superintendent (SUPT) TR: AFI 21-101				A
7.2.10.	Section NCOIC/Chief TR: AFI 21-101				B
7.2.11.	Production Superintendent (Pro Super) TR: AFI 21-101				A
7.3.	FUNCTIONS OF MAINTENANCE OPERATIONS SQUADRON (MOS)				
7.3.1.	Maintenance Operations Flight (MOF) TR: AFI 21-101				A
7.3.2.	Maintenance Training Flight (MTF) TR: AFI 21-101 and AFI 36-2232				A

STS 2AX7X

AEROSPACE MAINTENANCE CRAFTSMAN

1. Tasks Knowledge And Technical References		4. Proficiency Codes Used To Indicate Training/Information Provided			
		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		Course	CDC	Course	CDC
7.3.3.	Programs and Resources Flight TR: AFI 21-101				A
7.4.	FUNCTIONS OF AIRCRAFT/HELICOPTER MAINTENANCE SQUADRON (AMXS/HMXS)				
7.4.1.	Aircraft Maintenance Unit (AMU) TR: AFI 21-101				A
7.4.2.	Flightline Expediter TR: AFI 21-101				A
7.4.3.	Aircrew and Maintenance Debrief Section TR: AFI 21-101				A
7.4.4.	Aircraft Section TR: AFI 21-101				A
7.4.5.	Specialist Section TR: AFI 21-101				A
7.4.6.	Weapons Section TR: AFI 21-101				A
7.4.7.	Support Section TR: AFI 21-101				A
7.5.	FUNCTIONS OF MAINTENANCE SQUADRON (MXS)				
7.5.1.	Accessories Flight TR: AFI 21-101				A
7.5.2.	Aerospace Ground Equipment (AGE) Flight TR: AFI 21-101				A
7.5.3.	Armament Flight TR: AFI 21-101				A
7.5.4.	Avionics Flight TR: AFI 21-101				A
7.5.5.	Fabrication Flight TR: AFI 21-101				A
7.5.6.	Maintenance Flight TR: AFI 21-101				A
7.5.7.	Munitions Flight TR: AFI 21-101				A
7.5.8.	Propulsion Flight TR: AFI 21-101				A
7.5.9.	Test, Measurement, and Diagnostic Equipment (TMDE) Flight TR: AFI 21-101				A
7.6.	MAINTENANCE TRAINING				
7.6.1	Types of Training TR: AFI 36-2232 and the ETCA site located at: https://etca.randolph.af.mil/				A
7.6.2.	Training Documentation TR: AFI 21-101, AFI 36-2201 and AFI 36-2232				A
7.6.3.	Training Business Area (TBA) TR: https://www.my.af.mil/imds/tpa/IMDSTWeb/ActionServlet				B
7.6.4.	Special Certification Rosters TR: AFI 21-101				A
7.6.5.	Maintenance Qualification Program (MQP) TR: AFI 21-101, AFI 36-2232 and AFPD 10-9				A
7.6.6.	Training Management TR: AFI 36-2201, AFI 36-2232, AFI 21-101 and AETCI 36-2601				
7.6.6.1.	Training Forecast				A
7.6.6.2.	Training Request				A

STS 2AX7X

AEROSPACE MAINTENANCE CRAFTSMAN

		4. Proficiency Codes Used To Indicate Training/Information Provided			
1. Tasks Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		Course	CDC	Course	CDC
7.6.6.3.	Master Training Plan				A
7.7.	PERSONNEL RESOURCE MANAGEMENT				
7.7.1.	Unit Manpower Document (UMD) and Unit Personnel Manpower Roster (UPMR) TR: AFI 36-2110, AFI 38-201 and AFTTP 3-3				A
7.7.2.	Personnel Utilization TR: AFI 21-101				A
7.8.	MAINTENANCE SUPPLY				
7.8.1.	Logistics Readiness Squadron (LRS) Supply Support TR: AFI 21-101, AFMAN 23-110 (Vol. 1) and AFTTP 3-3				A
7.8.2.	Readiness Spares Packages TR: AFI 21-101, AFMAN 23-110 and AFTTP 3-3				A
7.8.3.	Consumables Management TR: AFI 21-101, AFMAN 23-110 and AFTTP 3-3				A
7.8.4.	Equipment Items TR: AFI 21-101, AFMAN 23-110 and AFMAN 23-220				A
7.8.5.	Supply Assets Requiring Functional Check, Calibration, or Operational Flight Programming TR: AFI 21-101, AFMAN 23-110 and TO 00-20-3				A
7.8.6.	Precious Metals Recovery Program TR: AFI 21-101 and AFMAN 23-110				A
7.8.7.	Supply Points TR: AFI 21-101 and AFMAN 23-110				A
7.8.8.	Local Manufacture TR: AFI 21-101				A
7.8.9.	Repair Cycle Assets TR: AFI 21-101 and AFMAN 23-110				A
7.8.10.	Supply Management Products TR: AFI 21-101 and AFMAN 23-110				A
7.8.11.	Tail Number Bins (TNB) TR: AFI 21-101 and AFMAN 23-110				A
7.8.12.	Maintenance Repair/Supply Delivery Priorities TR: AFI 21-101 and AFMAN 23-110				A
7.8.13.	Classified Assets TR: AFI 21-101, AFJI 31-102, TO 00-5-1 and TO 00-20-1				A
7.8.14.	Hazardous Materials TR: AFI 21-101, AFI 32-7086 and AFI 90-821				A
7.8.15.	Supply Deficiency and Discrepancy Reporting TR: AFI 21-101, AFMAN 23-110 and TO 00-35D-54				B
7.8.16.	Special Handling of Supply Assets Containing Hazardous Materials TR: AFI 24-203, AFI 32-7086, AFMAN 23-110, TO 42B2-1-3, and TO 6J3-1-1				A
7.8.17.	Maintenance Supply Liaison TR: AFI 21-101 and AFMAN 23-110				A
7.9.	TECHNICAL ORDER MANAGEMENT				
7.9.1.	Technical Orders Distribution Process TR: AFI 21-101, AFI 63-101, AFTTP 3-3 and TO 00-5-1				A
7.9.2.	Time Compliance Technical Orders (TCTO) TR: TO 00-5-15				A
7.9.3.	Technical Order Change Process TR: AFI 21-303				A
7.9.4.	Technical Order Waivers TR: AFI 21-101 and AFI 21-303				A
7.10.	MAINTENANCE REQUIREMENTS AND PROGRAMS				

STS 2AX7X

AEROSPACE MAINTENANCE CRAFTSMAN

1. Tasks Knowledge And Technical References		4. Proficiency Codes Used To Indicate Training/Information Provided			
		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		Course	CDC	Course	CDC
7.10.1.	Cannibalization Program TR: AFI 21-101 and AFTTP 3-3				A
7.10.2.	Restricted Maintenance Areas TR: AFI 21-101				A
7.10.3.	Red Ball Maintenance TR: AFI 21-101				A
7.10.4.	Aircraft/Equipment Impoundment Program TR: AFI 21-101				A
7.10.5.	Foreign Object Damage (FOD) Program TR: AFI 21-101, AFI 36-2232 and AFTTP 3-3				A
7.10.6.	Dropped Object Prevention (DOP) Program TR: AFI 21-101				A
7.10.7.	Tool Management TR: AFI 21-101				A
7.10.8.	Tool Accountability TR: AFI 21-101				A
7.10.8.1.	Marking and Tool Identification TR: AFI 21-101				A
7.10.8.2.	Locally Manufactured, Developed, or Modified Tools and Equipment TR: AFI 21-101				A
7.10.8.3.	Lost Item/Tool Procedures TR: AFI 21-101				A
7.10.9.	Maintenance Recovery Team TR: AFI 21-101				A
7.11.	QUALITY ASSURANCE (QA) PROGRAM				
7.11.1.	Maintenance Standardization and Evaluation Program (MSEP) TR: AFI 21-101 and AFTTP 3-3				A
7.11.2.	QA Product Improvement Program TR: AFI 21-101				A
7.11.3.	Configuration Management (CM) and Modification Management TR: AFI 21-101				A