

## AFSC 2A8X1X

# MOBILITY AIR FORCES (MAF) INTEGRATED COMMUNICATION/ COUNTERMEASURE/NAVIGATION SYSTEMS



# CAREER FIELD EDUCATION AND TRAINING PLAN

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MAF INTEGRATED COMMUNICATION/COUNTERMEASURE/NAVIGATION  
SYSTEMS  
AFSC 2A8X1X**

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**MAF INTEGRATED COMMUNICATION/COUNTERMEASURE/NAVIGATION  
SYSTEMS  
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AFSC 2A8X1X**

**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 2A8X1X, MAF Integrated Communication/Countermeasures/Navigation 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 PROGRESSION AND INFORMATION**

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

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

*Suffix Portion of AFSC to Which Related*

A.....	C-5
B.....	C-17
C.....	C-130 (except SOF/PR & EC-130)
D.....	C-21/27/37/39/40**
A, B, C, and D shreds drop at 7-level to become E	
E.....	7-Level Cargo Comm/Nav
F.....	KC-10
G.....	KC-135
H.....	KC-46
F, G, and H shreds drop at 7-level to become J	
J.....	7-Level Tanker Comm/Nav

\*\*Avionics maintainers for the C-40 Flying Crew Chief program at Ramstein and Hickam may be directly hired from locally assigned avionics AFSCs or through EQUAL Plus hiring from all heavy avionics AFSCs (2A2XX, 2A8XX and 2A9XX). When they are hired into the position their DAFSC will become the 2A8X1D AFSC. Upon release from C-40 duty they will revert back to their original PAFSC.

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

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

##### **4.2.1.1. MAF Integrated Communication/Countermeasures/Navigation Systems**

**Apprentice and Journeyman.** Operates and maintains communication/countermeasures/navigation/mission systems on C-5, C-17, C-130 (except SOF/PR and EC-130), C-21/27/37/39/40, KC-10, KC-135 and KC-46 aircraft. Analyzes equipment operating characteristics to isolate malfunctions in avionics systems, radar, integrated test systems built-in-test (BIT), multiplexed data bus systems, recording systems, fire control systems, video display systems, mission computer systems, inertial navigation systems (INS), global positioning system, traffic collision avoidance system, electronic warfare (EW) systems, sensors, communication, and navigation systems, transponders, aircraft indicating systems, flight formation 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, antennas, transmission lines, and multiconductor cables. Modifies avionics systems according to technical publications. Updates operational logs, inspection records, aircraft forms, and automated maintenance systems. Performs and supervises alignment, calibration, and boresight of avionics systems. Uploads ground maintenance and operational software. Performs off-equipment maintenance on selected avionics LRUs and maintains peculiar support equipment (SE). Inspects and evaluates aircraft maintenance activities. Inspects and

verifies operational status and configuration of avionics systems and software. Records and ensures validity of entries into maintenance data collection and inspection systems. Resolves and assists units in solving maintenance and supply problems. Interprets and recommends corrective action to inspection findings. Prepares aircraft for low altitude profiles, precision air drop. 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 MAF Integrated Communication/Countermeasures/Navigation Systems Career Field. The spectrum includes a strategy for when, where, and how to meet these training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training. Refer to paragraph 10 of this document for a complete list of specialty qualification requirements.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## 8. Career Field Path.

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

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

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

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

**10. Specialty Qualification Requirements.** MAF Integrated Communication/Countermeasure/Navigation Systems (ref. [AFECD found on the AFPC website; https://gum-cm.csd.disa.mil/app/answers/detail/a\\_id/7504](https://gum-cm.csd.disa.mil/app/answers/detail/a_id/7504)).

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

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

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

**10.3.1. 2A831.** Completion of the applicable basic avionic systems courses is mandatory.

**10.3.2. 2A851.** 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. 2A871.** 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. 2A851.** Qualification in and possession of AFSC 2A831, experience in maintaining MAF Integrated Communication/Countermeasure/Navigation 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. 2A871.** Qualification in and possession of AFSC 2A851 experience performing or supervising functions such as inspection, maintaining and troubleshooting MAF Integrated Communication/Countermeasure/Navigation systems, maintaining supplies and equipment, and administrative duties.

**10.4.3. 2A590.** Qualification in and possession of AFSC 2A871 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. Must maintain an Air Force Network License according to AFI 33-115, Vol 2, *Licensing Network Users and Certifying Network Professionals*.

**10.5.3.** For award and retention of AFSCs 2A8X1X, 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.

**10.6. 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.**

**12.1. Low Power Color Weather Radar (LPCWR), Enhanced Traffic Alert and Collision Avoidance System (ETCAS), Digital Interphone (DI), and Joint Tactical Radio System (JTRS).**

**12.1.1. Constraints.** Trainers are not available for the Apprentice course to satisfy the requirement for operational checks on a LPCWR, ETCAS and DI systems. The JTRS is currently not being developed for AF use, but could be revised at a later date.

**12.1.1.1. Impacts.** Apprentice students will not be able perform hands-on operational checks (proficiency code '2b') on LPCWR, ETCAS, and DI systems. Instead, they will receive training on step-by-step procedures to perform ops checks (proficiency code 'b') and will receive hands-on training with the systems currently available at the schoolhouse. They also will not receive training for basic facts and terms (proficiency code 'A') pertaining to purpose, characteristics and theory of operations on the JTRS because the system is unavailable. Proficiency code '2b/b' will be entered in column 4A for the respective STS line items for LPCWR, ETCAS and DI, and 'A/x' will be entered on line items for JTRS.

**12.1.1.2. Resources Required.** Funds to acquire new trainers or modify existing trainers capable of performing operational checks on LPCWR, ETCAS and DI systems are needed.

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

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

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

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

***Section E – TRANSITIONAL TRAINING GUIDE***

**15.** There are no transitional requirements. This area is reserved.

## **PART II**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

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

## ***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 code(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 2A8X1X Specialty and shows how the courses are used by each MAJCOM in their career

field training programs. For further information on the following courses, contact the OPR at:

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

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

Airframe	Course Number	Course Title
C-5	E3AQR2A831A004A	Avionic Fundamentals
	J3ABR2A831A004A	MAF Integrated Comm/Countermeasures/Nav Sys Apprentice
C-17	E3AQR2A831B007A	Avionic Fundamentals
	J3ABR2A831B007A	MAF Integrated Comm/Countermeasures/Nav Sys Apprentice
C-130	E3AQR2A831C017A	Avionic Fundamentals
	J3ABR2A831C017A	MAF Integrated Comm/Countermeasures/Nav Sys Apprentice
C-21/27/37/39/40	E3AQR2A831D048A	Avionic Fundamentals
	J3ABR2A831D048A	MAF Integrated Comm/Countermeasures/Nav Sys Apprentice
KC-10	E3AQR2A831F031A	Avionic Fundamentals
	J3ABR2A831F031A	MAF Integrated Comm/Countermeasures/Nav Sys Apprentice
KC-135	E3AQR2A831G018A	Avionic Fundamentals
	J3ABR2A831G018A	MAF Integrated Comm/Countermeasures/Nav Sys Apprentice

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

COURSE NO.	COURSE TITLE	USER
CDC 2A851X	Communication/Countermeasure/Navigation 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 2A8X1X.

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

HQ AMC/A4MMT  
402 Scott Drive Unit 2A2  
Scott AFB, IL 62225-5308  
DSN 779-4787  
MAF MCL

11 Attachments:

1. Proficiency Code Key (Mandatory)
2. General 2A8X1X Training Requirements (Mandatory)
3. C-5 Training Requirements (Mandatory for C-5 personnel)
4. C-17 Training Requirements (Mandatory for C-17 personnel)
5. C-130 Training Requirements (Mandatory for C-130 personnel - Exception: EC-130 and SOF/PR)
6. C-21/27/37/39/40 Training Requirements (Mandatory for C-21/27/37/39/40 personnel)
7. KC-10 Training Requirements (Mandatory for KC-10 personnel)
8. KC-135 Training Requirements (Mandatory for KC-135 personnel)
9. Reserved for KC-46
10. Avionics Fundamental Training Requirements (Mandatory)
11. 2AX7X CDC Training Requirements (Mandatory for 7-level upgrade)

## Attachment 1

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

### QUALITATIVE REQUIREMENTS

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

**Explanations**

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

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

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

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

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

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

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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 2A8X1 shreds, in order to have the same level requirements across the shreds.

NOTE 1: The apprentice course, J3ABR2A8X1XXXXX, Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

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

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

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

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

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

2 CFETP 2A8X1A - COMMUNICATION/ NAVIGATION/MISSION SYSTEMS										
2.1 CAREER LADDER PROGRESSION										
2.1.1 Progression in Career Ladder 2A8X1A TR: AFI 36-2108/AFVA 39-1								-	-	-
2.1.2 Duties and Responsibilities of 2A8X1A Personnel TR: AFMAN 36-2108								A	-	-
2.1.3 Concepts/Philosophy of Electronic Warfare								A	-	-
2.2 SECURITY										
2.2.1 Information Security TR: AFI-31-401/AFI 31-501/ AFPD 31- 4/AFPD 31-5										
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: AFI-31-101V1, DODR 5200-8, 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 Items (CCI)								A	B	-
2.2.3 Communications Security (COMSEC) TR: AFI 33-211, DoD 5200-1-4, AFPD 33-2										
2.2.3.1 COMSEC Education Program								-	-	-
2.2.3.2 Responsibilities of COMSEC User								A	-	-
2.2.4 Operations Security (OPSEC) TR: AFI 10-1101, AFPD 10-11, and Applicable directives										

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.2.4.1 Goals of OPSEC Program								-	-	-
2.2.4.2 Function of Critical Information Lists (CIL)								-	-	-
<b>2.3 AF OCCUPATIONAL SAFETY and HEALTH (AFOSH) Safety Practices TR: AFI 91-series technical orders, 31, 33 series</b>										
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 FOD Prevention								-	-	-
2.3.17 AF Nuclear Surety Program								-	-	-
2.3.18 Heavy Lifting								-	-	-
2.3.19 Fall Protection/Restraints								A	-	-
2.3.20 Inspect and Use Fire Extinguisher TR: TO 00-25-172								-	-	-
<b>2.4 HAZARDOUS MATERIALS and WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS TR: AFI-23-504, AFI 32-7042, AFPAM 32-7043, Applicable Federal Codes, EPA State Regulations</b>										
2.4.1 Types of Hazardous Material and 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								-	-	-
<b>2.5 MAINTENANCE MANAGEMENT TR: AFI-21-101</b>										
2.5.1 Basic Functions and Responsibilities of Maintenance Complex								-	B	-
2.5.2 Maintenance Data Collection								A	B	-
2.5.3 Maintenance Information System								A	B	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.5.4 Maintenance Resource Management								A	-	-
2.5.5 Logistics/Resource Maintenance Management										
2.5.5.1 Logistics Management								-	-	-
2.5.5.2 Resource Management								-	-	-
2.5.5.3 Standard Publication Use								-	A	-
2.5.5.4 Product Improvement Working Group/ Test Planning Working Group/System Training Plan/Product Improvement Review								-	-	-
2.5.5.5 Aircraft Maintenance Management Information Systems (CEMS, RAMPOD, PAMS, etc)								-	-	-
2.5.5.6 SMR Codes								-	-	-
2.5.5.7 Modification Proposals (AF Form 1067)								-	-	-
2.5.5.8 Aircraft/Equipment Status Monitoring								-	-	-
2.5.5.9 Compliance and Standardization Requirements Listing (CSRL)								-	-	-
2.5.5.10 Maintenance Performance Indicators (MPI) Relationships (repeat/recur, fix, break, cannibalization rates, etc.)								-	-	-
2.5.5.11 FOD Program Manager								-	-	-
2.5.5.12 Mobility (hazard declarations)								-	-	-
2.5.5.13 Maintenance Incident Investigation and Prevention								-	-	-
2.5.5.14 Minimum Essential Systems Lists (MESL)								-	-	-
2.5.5.15 TMDE Program								-	-	-
2.5.5.16 Warranty Program								-	-	-
2.5.5.17 Workcenter Responsibilities								-	-	-
2.5.5.18 IDEA Program								-	-	-
2.5.5.19 Repair Cycle Assessment Program								A	-	-
2.6 MAINTENANCE INSPECTION SYSTEMS and FORMS 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 Applicable MIS (IMDS, GO81, ECSS)										
2.6.7.1 Create Discrepancy								2b	-	-
2.6.7.2 Schedule Discrepancy								2b	-	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
2.6.7.3 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)								-	-	-
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 Complete IMDS Course J6ANU00066-046 or J6ANU00066-047								-	-	-
2.6.7.11 Complete IMDS for Supervisors Course J6ANU00066-048								-	-	-
2.6.8 Deficiency Reporting System										
2.6.8.1 Purpose								-	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								-	A	-
2.6.9.3 781C								2b	-	-
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										
2.7.1 Orient New Personnel TR: AFI 36-2108/TO 36-2201								-	-	-
2.7.2 Assign Personnel to Work Assignments AFI 21-101/Applicable command directives								-	-	-
2.7.3 Plan Work Assignments and Priorities TR: AFI 21-101/Applicable command directives								-	-	-
2.7.4 Schedule Work Assignments and Priorities TR: AFI 21-101/Applicable command directives								-	-	-
2.7.5 Coordinate Work Assignments TR: AFI 21-101/Applicable command directives								-	-	-
2.7.6 Establish TR: AFI 21-101/Applicable command directives										
2.7.6.1 Work Methods								-	-	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.7.6.2 Controls								-	-	-
2.7.6.3 Performance Standards								-	-	-
2.7.6.4 Resource Protection								-	-	-
2.7.7 Evaluate Work Performance TR: AFI 21-101/Applicable command directives								-	-	-
2.7.8 Help Resolve Technical Problems TR: AFI 36-2101/AFI 32-2201								-	-	-
2.7.9 Initiate Actions to Correct Substandard Performance TR: AFI 36-2903/AFI 36-2907/ AFI 36-3202/AFI 36-3208								-	-	-
2.7.10 Counsel Personnel and Help Resolve Individual Problems TR: AFP 36-2618								-	-	-
2.7.11 Supervise TR: AFMAN 36-2108, AFIs 36-2201, 36-2103, 00-20-1										
2.7.11.1 Maintenance Actions								-	-	-
2.7.11.2 Inspection Actions								-	-	-
2.7.12 Justify TR: AFI 21-101/Applicable command directives										
2.7.12.1 Personnel Manning Requirements								-	-	-
2.7.12.2 Equipment Authorizations								-	-	-
2.7.13 Statement of Charges TR: DODR 700-14V4/DOD 7200-1								-	-	-
2.7.14 Perform Reports of Survey TR: DODR 700-14V4/DOD 7200-1								-	-	-
2.7.15 Aircraft Scheduling TR: AFI 21-101/Applicable MAJCOM Instructions										
2.7.15.1 Utilize Flow Charts								-	-	-
2.7.15.2 Status Reporting								-	-	-
2.7.15.3 Flying/Maintenance Plan								-	-	-
2.8 TRAINING TR: AFI 36-2201										
2.8.1 Evaluate Personnel for Need of Training								-	-	-
2.8.2 Plan and Supervise OJT/EST										
2.8.2.1 Prepare Workcenter JQS (WJQS)								-	-	-
2.8.2.2 Conduct Training								-	-	-
2.8.2.3 Counsel Trainees on their Progress								-	-	-
2.8.2.4 Provide Motivation for Trainers and Trainees								-	-	-
2.8.3 Monitor Effectiveness of Training TR: AFI 36-2201										
2.8.3.1 Career Knowledge Update								-	-	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
2.8.3.2 Job Proficiency Upgrade								-	-	-
2.8.3.3 Qualification Training								-	-	-
2.8.3.4 Maintain Training Records								-	-	-
2.8.3.5 Evaluate Effectiveness of Training Programs								-	-	-
2.8.3.6 Recommend Personnel for Training								-	-	-
2.8.4 OJT Trainer Requirements TR: AFI 36-2201										
2.8.4.1 Prepare Teaching Outlines of Tasks Breakdowns								-	-	-
2.8.4.2 Provide Trainees Theory and Training on Actual Equipment								-	-	-
2.8.4.3 Provide Feedback on Training Provided								-	-	-
2.8.5 OJT Task Certifier Requirements TR: AFI 36-2201										
2.8.5.1 Develop Methods of Evaluation to Determine Trainee Knowledge/ Qualification and Training Effectiveness								-	-	-
2.8.5.2 Use Appropriate Method of Evaluation and Effectively Determine Trainees Ability								-	-	-
2.8.5.3 Provide Supervisor and Trainee Feedback on Results of Training Provided and Trainees Strengths/ Weaknesses								-	-	-
2.9 TECHNICAL PUBLICATIONS TR: Applicable 00-series technical orders, 80-00-1										
2.9.1 Scope and Application of Technical Order System								A	B	-
2.9.2 Technical Order (TO) Management								-	-	-
2.9.3 Use Technical Order Indexes								-	-	-
2.9.4 Use Technical Orders								2b	-	-
2.9.5 Electronic Technical Orders								A	-	-
2.9.6 Technical Order Improvement/ Deficiency Report (AFTO Form 22)								A	A	-
2.9.7 Scope and Application of Computer Program Identification Number (CPIN) System								A	B	-
2.9.8 Use CPIN Compendium								-	-	-
2.9.9 Maintain Technical Order Files								-	-	-
2.9.10 Time Compliance Technical Orders (TCTO)								-	A	-
2.10 SUPPLY DISCIPLINE TR: AFI 21-101, AFMAN 23-110										
2.10.1 Supply Principles								-	-	-
2.10.2 Property Accountability and								A	B	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
Responsibility										
2.10.3 Principles of Equipment Authorization and Management								-	-	-
2.10.4 Special Requisitions								-	-	-
2.10.5 Back Order Verification								-	-	-
2.10.6 Equipment Condition Tags								2b	-	-
2.10.7 Issue/Turn-In Requests								-	-	-
2.10.8 Maintenance Supply Concept								-	-	-
2.10.9 Supply Documents Management								-	-	-
2.10.10 Equipment Management Account								-	-	-
2.10.11 Priority System								-	-	-
2.10.12 Repair Cycle Assets								-	-	-
2.10.13 Standard Base Supply System (SBSS)								A	-	-
2.10.14 FEDLOG/WEBFLIS								A	-	-
2.10.15 Classified Asset Handling								A	A	-
2.10.16 Land Mobile Radios/Pagers/Cell Phones								-	-	-
2.10.17 Depot Level Repair								-	-	-
2.10.18 Use Supply Products TR: AFMAN 23-110										
2.10.18.1 D04 (Daily Document Register)								-	-	-
2.10.18.2 D18 (Priority Monitor List)								-	-	-
2.10.18.3 M30 (Due-Out Validation Listing)								-	-	-
2.10.18.4 D23								-	-	-
2.11 FUNDAMENTALS OF ON-EQUIPMENT MAINTENANCE 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 Special Purpose Tools								-	-	-
2.11.4 Protection Procedures when Handling Electrostatic Sensitive Devices								B	-	-
2.11.5 Use Panel Sealants/Gaskets								-	A	-
2.11.6 Identify and Perform Corrosion Control								a	-	-
2.11.7 Inventory and Inspect CTKs	*							2b	-	-
2.11.8 Use Tool Accountability Program								-	-	-
2.11.9 Use Safetying Devices										
2.11.9.1 Safety Wire	*							2b	-	-
2.11.9.2 Shear Wire								b	-	-
2.11.9.3 DMC Safe-T Cable								-	-	-
2.11.10 Remove and Install NOTE: Qualification on line items 2.11.10.1 through 2.11.10.13 qualifies the individual on all										

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
similar system components throughout this training record unless identified separately in the specific system or in writing by the supervisor.										
2.11.10.1 Shock Mounted	*							2b	-	-
2.11.10.2 Tray Mounted	*							2b	-	-
2.11.10.3 Rack Mounted	*							2b	-	-
2.11.10.4 Console Mounted	*							2b	-	-
2.11.10.5 Aircraft Surface Mounted	*							2b	-	-
2.11.10.6 Clamp Mounted Components								-	-	-
2.11.10.7 Bezel Mounted Components								-	-	-
2.11.10.8 Latch Mounted Components	*							-	-	-
2.11.10.9 Bulkhead Mounted								-	-	-
2.11.10.10 Equipment Mounted	*							-	-	-
2.11.10.11 Minor Parts and Hardware (i.e. relay, switches, bulbs, circuit breakers)	*							-	-	-
2.11.10.12 Capacitors/Resistors/Diodes								-	-	-
2.11.10.13 Terminal/Modular Blocks								-	-	-
2.12 AIRCRAFT FAMILIARIZATION 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 Use Powered AGE										
2.12.7.1 Bleed Air Cart								-	-	-
2.12.7.2 Heater								-	-	-
2.12.7.3 Air Conditioner								-	-	-
2.12.7.4 Light Cart								-	-	-
2.12.7.5 Air Compressor (MC-1A/MC-2A)								-	-	-
2.12.7.6 Ground Power Unit								-	-	-
2.12.7.7 Powered Man-Lifts								-	-	-
2.12.7.8 Motorized Maintenance Stand								-	-	-
2.12.7.9 Nitrogen Cart								-	-	-
2.12.8 Use Non-Powered AGE TR: AFI 91-408										
2.12.8.1 Maintenance Platform (B-1)								2b	-	-
2.12.8.2 Maintenance Platform (B-2)								-	-	-
2.12.8.3 Maintenance Platform (B-4/B-5)								2b	-	-
2.12.8.4 Maintenance Platform (B-6)								-	-	-
2.12.8.5 Maintenance Platform (B-7)								-	-	-
2.12.8.6 Maintenance Platform (C-1)								-	-	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
2.12.9 Use Special Purpose Vehicles TR: Operator Manuals										
2.12.9.1 High Reach								-	-	-
2.12.9.2 De-icer								-	-	-
2.12.9.3 Cranes								-	-	-
2.13 FUNDAMENTALS OF AVIONICS SYSTEMS MAINTENANCE TR: Applicable aircraft -1 and -2 series technical orders										
2.13.1 Nuclear Hardness Maintenance and Inspections TR: TO JG-00-1, 1-1A-14								A	-	-
2.13.2 Source Of EMI										
2.13.2.1 Identify and Perform Corrosion Control								-	A	-
2.13.2.2 Eliminate								-	A	-
2.13.3 Source Of RFI										
2.13.3.1 Identify and Perform Corrosion Control								-	A	-
2.13.3.2 Eliminate								-	A	-
2.13.4 Data Bus Principles/Maintenance Practices TR: Applicable aircraft technical orders										
2.13.4.1 Local Area Networks								-	B	-
2.13.4.2 MIL-STD-1553A								A	B	-
2.13.4.3 MIL-STD-1553B								A	B	-
2.13.4.4 RS-232								-	-	-
2.13.4.5 RS-422								-	-	-
2.13.4.6 MIL-STD-1760								-	-	-
2.13.4.7 Fiber Optics								-	B	-
2.13.4.8 Troubleshoot Data Bus								-	-	-
2.14 GENERAL RADAR SYSTEMS										
2.14.1 Theory Of Operation										
2.14.1.1 Antenna Systems								B	B	-
2.14.1.2 Transmitters								B	B	-
2.14.1.3 Receivers								B	B	-
2.14.2 Modes/Functions										
2.14.2.1 Ground Mapping								A	A	-
2.14.2.2 Low Power Color Weather Radar								A	A	-
2.14.2.3 Terrain Avoidance								A	A	-
2.14.2.4 Terrain Following								A	A	-
2.14.2.5 Target Acquisition								A	A	-
2.14.2.6 Bombing Radar								A	A	-
2.14.2.7 Synthetic Aperture Radar								A	A	-
2.14.2.8 Rendezvous Beacon								A	-	-
2.14.2.9 Station Keeping								A	-	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
2.14.3 Ground Mapping Radar										
2.14.3.1 Purpose and Characteristics								B	-	-
2.14.3.2 Theory of Operation								-	-	-
2.14.3.3 System Tie-In/Integration								B	-	-
2.14.3.4 Perform Operational Checks								-	-	-
2.14.4 Low Color Weather Radar Note: The Apprentice course will continue doing ops checks using the C-141 color weather radar until replacement trainers are received.										
2.14.4.1 Purpose and Characteristics								B	-	-
2.14.4.2 Theory of Operation								-	-	-
2.14.4.3 System Tie-In/Integration								B	-	-
2.14.4.4 Perform Operational Checks								2b/b	-	-
2.14.4.5 Perform Operational Check on KC-46								2b/-	-	-
2.14.5 Radar Altimeter										
2.14.5.1 Purpose and Characteristics								B	-	-
2.14.5.2 Theory of Operation								B	B	-
2.14.5.3 System Tie-In/Integration								B	-	-
2.14.5.4 Perform Operational Checks								-	-	-
2.14.6 Search/Weather Radar										
2.14.6.1 Purpose and Characteristics								-	-	-
2.14.6.2 Theory of Operation								-	-	-
2.14.6.3 System Tie-In/Integration								-	-	-
2.14.6.4 Perform Operational Checks								1b	-	-
2.15 GENERAL COMPUTER COMPLEX SYSTEMS										
2.15.1 Purpose and Characteristics								B	B	-
2.15.2 Theory of Operation								-	-	-
2.15.3 System Tie-in/Integration								B	B	-
2.15.4 Perform Operational Checks								-	-	-
2.16 GENERAL NAVIGATION SYSTEMS										
2.16.1 Principles										
2.16.1.1 Earth Coordinate System								B	B	-
2.16.1.2 Great Circle Navigation								B	B	-
2.16.2 Global Positioning System (GPS)										
2.16.2.1 Purpose and Characteristics								B	B	-
2.16.2.2 Theory of Operation								B	B	-
2.16.2.3 System Tie-In/Integration								B	-	-
2.16.2.4 Perform Operational Checks								2b	-	-
2.16.3 Doppler										
2.16.3.1 Purpose and Characteristics								A	-	-
2.16.3.2 Theory of Operation								A	-	-
2.16.3.3 System Tie-In/Integration								B	-	-
2.16.3.4 Perform Operational Checks								-	-	-
2.16.4 Inertial Navigation System (INS)										

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
2.16.4.1 Purpose and Characteristics								B	B	-
2.16.4.2 Theory of Operation								B	B	-
2.16.4.3 System Tie-In/Integration								B	-	-
2.16.4.4 Perform Operational Checks								2b	-	-
<b>2.16.5 Tactical Air Navigation (TACAN)</b>										
2.16.5.1 Purpose and Characteristics								B	B	-
2.16.5.2 Theory of Operation								B	B	-
2.16.5.3 System Tie-In/Integration								B	-	-
2.16.5.4 Perform Operational Checks								2b	-	-
2.16.5.5 Isolate Malfunctions								2b	-	-
<b>2.16.6 Instrument Landing System (ILS)</b>										
2.16.6.1 Purpose and Characteristics								B	B	-
2.16.6.2 Theory of Operation								B	B	-
2.16.6.3 System Tie-In/Integration								-	-	-
2.16.6.4 Perform Operational Checks								2b	-	-
2.16.6.5 Isolate Malfunctions								2b	-	-
2.16.6.6 Perform Operational Check on KC-46								2b/-	-	-
2.16.6.7 Isolate Malfunctions on KC-46								2b/-	-	-
<b>2.16.7 VHF Omni Directional Range (VOR)</b>										
2.16.7.1 Purpose and Characteristics								B	B	-
2.16.7.2 Theory of Operation								B	B	-
2.16.7.3 System Tie-In/Integration								-	-	-
2.16.7.4 Perform Operational Checks								2b	-	-
2.16.7.5 Isolate Malfunctions								2b	-	-
2.16.7.6 Perform Operational Check on KC-46								2b/-	-	-
2.16.7.7 Isolate Malfunctions on KC-46								2b/-	-	-
<b>2.16.8 Microwave Landing Systems (MLS)</b>										
2.16.8.1 Purpose and Characteristics								-	-	-
2.16.8.2 Theory of Operation								-	-	-
2.16.8.3 System Tie-In/Integration								-	-	-
2.16.8.4 Perform Operational Checks								-	-	-
2.16.8.5 Isolate Malfunctions								-	-	-
<b>2.16.9 Automatic Direction Finding System (ADF)</b>										
2.16.9.1 Purpose and Characteristics								-	-	-
2.16.9.2 Theory of Operation								-	-	-
2.16.9.3 System Tie-In/Integration								-	-	-
2.16.9.4 Perform Operational Checks								-	-	-
2.16.9.5 Isolate Malfunctions								-	-	-
<b>2.16.10 Selective Identification Feature (SIF)/ Identify Friend Or Foe (IFF)</b>										
2.16.10.1 Purpose and Characteristics								B	B	-
2.16.10.2 Theory of Operation								B	B	-
2.16.10.3 System Tie-In/Integration								B	-	-
2.16.10.4 Perform Operational Checks								2b	-	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
2.16.10.5 Isolate Malfunctions								2b	-	-
2.16.10.6 Perform Operational Check on KC-46								2b/-	-	-
2.16.10.7 Isolate Malfunctions on KC-46								2b/-	-	-
2.16.11 Enhanced Traffic Alert and Collision Avoidance System										
2.16.11.1 Purpose and Characteristics								B	B	-
2.16.11.2 Theory of Operation								B	B	-
2.16.11.3 System Tie-In/Integration								B	-	-
2.16.11.4 Perform Operational Checks								2b/b	-	-
2.16.11.5 Perform Operational Check on KC-46								2b/-	-	-
2.17 GENERAL COMMUNICATION SYSTEMS										
2.17.1 Principles										
2.17.1.1 Transmitters								B	B	-
2.17.1.2 Receivers								B	B	-
2.17.1.3 Transponders								B	B	-
2.17.1.4 Antennas								A	A	-
2.17.1.5 Transmission Lines								B	B	-
2.17.1.6 Modulation								B	-	-
2.17.2 Cryptographic Devices TR: TM 3155-2 USC-43-2; Applicable aircraft technical orders										
2.17.2.1 Purpose and Characteristics								B	B	-
2.17.2.2 Theory of Operation								B	B	-
2.17.2.3 System Tie-In/Integration								-	-	-
2.17.2.4 Perform Operational Checks								-	-	-
2.17.2.5 Cryptographic Simple Key Loading Devices TR: Applicable Technical Data										
2.17.2.5.1 Inspect								-	-	-
2.17.2.5.2 Use								2b	-	-
2.17.2.5.3 Load								2b	-	-
2.17.3 Wideband Secure Voice (WBSV)										
2.17.3.1 Purpose and Characteristics								B	B	-
2.17.3.2 Theory of Operation								B	B	-
2.17.3.3 System Tie-In/Integration								-	-	-
2.17.3.4 Perform Operational Checks								2b	-	-
2.17.4 Narrowband Secure Voice (NBSV)										
2.17.4.1 Purpose and Characteristics								B	B	-
2.17.4.2 Theory of Operation								B	B	-
2.17.4.3 System Tie-In/Integration								-	-	-
2.17.4.4 Perform Operational Checks								2b	-	-
2.17.5 Multipurpose/Multimode Communications TR: Applicable aircraft technical orders										
2.17.5.1 Purpose and Characteristics								B	B	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
2.17.5.2 Theory of Operation								B	B	-
2.17.5.3 System Tie-In/Integration								-	-	-
2.17.5.4 Perform Operational Checks								2b	-	-
2.17.5.5 Perform Operational Check on KC-46								2b/-	-	-
2.17.6 Emergency Communication Systems TR: Applicable aircraft technical orders										
2.17.6.1 Underwater Acoustical Beacon (UAB)										
2.17.6.1.1 Purpose and Characteristics								A	A	-
2.17.6.1.2 Theory of Operation								A	A	-
2.17.6.1.3 System Tie-In/Integration								-	-	-
2.17.6.1.4 Perform Operational Checks								-	-	-
2.17.6.2 Emergency Locator Transmitter										
2.17.6.2.1 Purpose and Characteristics								A	-	-
2.17.6.2.2 Theory of Operation								A	A	-
2.17.6.2.3 System Tie-In/Integration								-	-	-
2.17.6.2.4 Perform Operational Checks								-	-	-
2.17.6.3 Cockpit Voice Recorder										
2.17.6.3.1 Purpose and Characteristics								A	-	-
2.17.6.3.2 Theory of Operation								A	-	-
2.17.6.3.3 System Tie-In/Integration								-	-	-
2.17.6.3.4 Perform Operational Checks								-	-	-
2.17.7 Digital and Analog Interphone Systems										
2.17.7.1 Purpose and Characteristics								B	B	-
2.17.7.2 Theory of Operation								B	B	-
2.17.7.3 System Tie-In/Integration								B	-	-
2.17.7.4 Perform Operational Checks								2b/b	-	-
2.17.7.5 Perform Operational Check on KC-46								2b/-	-	-
2.17.8 High Frequency System (HF)										
2.17.8.1 Purpose and Characteristics								B	B	-
2.17.8.2 Theory of Operation								B	B	-
2.17.8.3 System Tie-In/Integration								-	-	-
2.17.8.4 Perform Operational Checks								2b	-	-
2.17.8.5 Isolate Malfunctions								2b	-	-
2.17.9 Ultra High Frequency System (UHF)										
2.17.9.1 Purpose and Characteristics								B	B	-
2.17.9.2 Theory of Operation								B	B	-
2.17.9.3 System Tie-In/Integration								-	-	-
2.17.9.4 Perform Operational Checks								2b	-	-
2.17.9.5 Isolate Malfunctions								2b	-	-
2.17.10 Very High Frequency System (VHF)										
2.17.10.1 Purpose and Characteristics								B	B	-
2.17.10.2 Theory of Operation								B	B	-
2.17.10.3 System Tie-In/Integration								-	-	-
2.17.10.4 Perform Operational Checks								2b	-	-
2.17.11 Demand Assigned Multiple Access										

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
(DAMA) SATCOM										
2.17.11.1 Purpose and Characteristics								B	-	-
2.17.11.2 Theory of Operation								B	-	-
2.17.11.3 System Tie-In/Integration								-	-	-
2.17.11.4 Perform Operational Checks								-	-	-
2.17.12 Data Link Systems										
2.17.12.1 Purpose and Characteristics								B	B	-
2.17.12.2 Theory of Operation								B	B	-
2.17.12.3 System Tie-In/Integration								-	-	-
2.17.12.4 Perform Operational Checks								-	-	-
2.17.13 Joint Tactical Radio System (JTRS)										
2.17.13.1 Purpose and Characteristics								X	-	-
2.17.13.2 Theory of Operation								X	-	-
2.17.13.3 System Tie-In/Integration								-	-	-
2.17.13.4 Perform Operational Checks								-	-	-
2.18 SENSOR SYSTEMS										
2.18.1 Principles										
2.18.1.1 Infrared								-	-	-
2.18.1.2 Video								-	-	-
2.19 AIRCRAFT WIRING										
2.19.1 Kapton								A	-	-
2.19.2 Multiconductor								A	-	-
2.19.3 Coaxial								A	-	-
2.19.4 Triaxial / Twinaxial								A	-	-
2.19.5 Nuclear Hardened								A	-	-
2.19.6 Twisted Pair								A	-	-
2.19.7 Single Conductor								A	-	-
2.19.8 Foamflex								A	-	-
2.20 PERFORM WIRE MAINTENANCE										
2.20.1 Stripping								2b	B	-
2.20.2 Environmental Splicing								2b	B	-
2.20.3 Bundling								2b	B	-
2.20.4 Strain Relief								2b	B	-
2.20.5 Continuity Checks								2b	-	-
2.20.6 Wire Repair	*							-	B	-
2.20.7 Solder/Desolder										
2.20.7.1 Wire Terminals								-	-	-
2.20.7.2 Circuit (PC) Boards								-	-	-
2.20.7.3 Connectors										
2.20.7.3.1 Coaxial								-	-	-
2.20.7.3.2 Multipin								-	-	-
2.20.7.4 U-92								-	-	-
2.20.7.5 U-94								2b/b	-	-
2.20.7.6 Pot Connectors								-	-	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
2.20.7.7 Splices								-	-	-
2.20.8 Assemble/Disassemble Solderless Connectors										
2.20.8.1 Crimp Connectors	*							2b	-	-
2.20.8.2 Coaxial Connectors								2b/b	-	-
2.20.8.3 Multipin Connectors								-	A	-
2.21 USE TEST EQUIPMENT/SPECIAL TOOLS										
2.21.1 IFF Transponder Test Set								2b	B	-
2.21.2 Bus Analyzer								-	A	-
2.21.3 Radar Test Set								-	-	-
2.21.4 Radio/Radar Altimeter Test Set								-	-	-
2.21.5 TACAN Test Set								2b	B	-
2.21.6 VOR/ILS Test Set								2b	B	-
2.21.7 Wattmeter								2b	B	-
2.21.8 Power Meter								-	-	-
2.21.9 Wire Maintenance Heat Tools								2b	A	-
2.21.10 Modulation/Demodulation Meter								-	-	-
2.21.11 Microwave Landing System Test Set								-	-	-
2.21.12 TCAS Test Set								-	-	-
2.21.13 TTU-205 Test Set								-	-	-
2.21.14 ADTS-405 Test Set								-	-	-
2.21.15 Laptop/Hand-Held Computers								-	-	-
2.21.16 RF Transmission Line Test Set								-	A	-
2.21.17 Time Domain Reflect Meter (TDR)								2b	B	-
2.21.18 Bonding Meter								2b	A	-
2.21.19 Oscilloscope								2b	-	-
2.21.20 Digital Multimeter								2b	-	-
2.21.21 ALM-288								2b	B	-
2.21.22 Data Access Devices								-	-	-
2.21.23 Data Transfer Devices								2b	A	-
2.21.24 Pulse Generator								2b	B	-
2.21.25 Spectrum Analyzer								2b	B	-
2.21.26 PLM-4 Radar Simulator or Equivalent								-	A	-
2.21.27 ASM-695 PLV								-	-	-
2.21.28 PYM-1 CAPRE								-	A	-
2.21.29 MWS Sensor Simulator								-	-	-
2.21.30 MWS Test Set								-	-	-
2.21.31 AN/ALM-288 Countermeasure Dispenser Tester (CDT)								-	A	-
2.21.32 AN/ALM 178								-	-	-
2.21.33 AN/PLM-6B Multi-Purpose Electro-Optical End-to-End Tester (MEON)								-	A	-
2.22 AN/ALE-47 CMDS										
2.22.1 Purpose and Characteristics								-	-	-

**GENERAL TRAINING REQUIREMENTS**

**CFETP 2A8X1X**

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
2.22.2 Theory of Operation								B	-	-
2.22.3 Reprogram AN/ALE-47 CMDS								2b	-	-
2.22.4 Perform CMDS Operational Check								2b	-	-
2.22.5 Troubleshoot								2b	-	-
<b>2.23 AN/AAR-47 (V1) MISSILE WARNING SYSTEM</b>										
2.23.1 Purpose and Characteristics								-	-	-
2.23.2 Theory of Operation								-	-	-
2.23.3 Reprogram								-	-	-
2.23.4 Perform Operational Check								-	-	-
<b>2.24 AN/AAR-47 (V2) MISSILE WARNING SYSTEM</b>										
2.24.1 Purpose and Characteristics								-	-	-
2.24.2 Theory of Operation								B	-	-
2.24.3 Reprogram								2b	-	-
2.24.4 Perform Operational Check								2b	-	-
<b>2.25 RADAR WARNING RECEIVER</b>										
2.25.1 Purpose and Characteristics								-	-	-
2.25.2 Theory of Operation								B	-	-
2.25.3 Reprogram								2b	-	-
2.25.4 Perform Operational Check								2b	-	-
<b>2.26 AN/AAQ-24 (V) 13 LARGE AIRCRAFT INFRARED COUNTERMEASURES SYSTEM (LAIRCM)</b>										
2.26.1 Purpose and Characteristics								-	-	-
2.26.2 Theory of Operation								B	-	-
2.26.3 Reprogram								2b/b	-	-
2.26.4 Perform Operational Check								2b/b	-	-
<b>2.27 COUNTERMEASURES PRINCIPLES</b>										
2.27.1 Infrared/ UltraViolet (UV)								B	B	-
2.27.2 Radar Warning								B	B	-
2.27.3 Laser								B	B	-
2.27.4 Chaff/ Flare								B	B	-
2.27.5 Electronic Warfare (EW) Combat Principles								B	B	-
2.27.6 EW Categories								B	B	-

**C-5 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-5 Training Requirements**

NOTE 1: The apprentice course, J3ABR2A8X1XXXXX, MAF Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

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

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

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

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

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

<b>3.1 GENERAL ORGANIZATIONAL MAINTENANCE</b>										
3.1.1 Aircraft Familiarization										
3.1.1.1 Aircraft Safe for Maintenance	*							-	-	-
3.1.1.2 Major Structural Areas								-	-	-
3.1.1.3 Major Systems								-	-	-
3.1.1.4 Aircraft Egress Procedures								-	-	-
3.1.1.5 Technical Order Familiarization								-	-	-
3.1.1.6 Flightline Safety/ Precautions Security								-	-	-
<b>3.2 GENERAL MAINTENANCE TASKS (C-5)</b>										
3.2.1 Dropped Object Prevention Program (DOPP)								-	-	-
3.2.2 Statically Ground Aircraft								-	-	-
3.2.3 Apply/ disconnect External Electrical Power Unit	*							-	-	-
3.2.4 Operate APU/ ATM								-	-	-
3.2.5 Operate Air Conditioning Unit								-	-	-
3.2.6 Open/ Close Engine Cowling								-	-	-
3.2.7 Operate Cargo Doors								-	-	-
3.2.8 Open/ Close Radomes								-	-	-
3.2.9 Enter/ Exit Vertical Stabilizer								-	-	-
3.2.10 Underfloor Tunnel Entry Procedure (Power On/ Off)								-	-	-
3.2.11 Update/ Load/ Operate Software	*							-	-	-
3.2.12 Deactivate/ Activate Fire Suppression System (FSS)								-	-	-
3.2.13 Launch/ Recover Aircraft								-	-	-
3.2.14 Operate Crew Entrance Door								-	-	-
<b>3.2.15 Jack Aircraft</b>										
3.2.15.1 Jacking Supervisor								-	-	-
3.2.15.2 Jacking Team Member								-	-	-
<b>3.2.16 Refuel/ Defuel Aircraft</b>										
3.2.16.1 Refuel/ Defuel Supervisor								-	-	-
3.2.16.2 Panel Operator								-	-	-
3.2.16.3 SPR Monitor								-	-	-

**C-5 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
3.2.16.4 CSS Duties								-	-	-
3.2.17 Remove and Install Aircraft Maintenance Access Panels								-	-	-
3.2.18 Perform Aircraft Marshaling Procedures								-	-	-
3.2.19 Tow Aircraft										
3.2.19.1 Tow Team Supervisor								-	-	-
3.2.19.2 Wing/ Tail Walker								-	-	-
3.2.19.3 Brake Operator								-	-	-
3.2.19.4 Tow Vehicle Operator								-	-	-
3.2.20 Kneel Aircraft										
3.2.20.1 Kneel Team Supervisor								-	-	-
3.2.20.2 Kneel Team Member								-	-	-
3.2.21 Perform Inspections										
3.2.21.1 Aircraft Phase/ Periodic/ ISO								-	-	-
3.2.21.2 Home Station Check (HSC) Inspection								-	-	-
3.2.21.3 Basic/ Postflight/ Preflight/ Thruflight								-	-	-
3.2.22 Service										
3.2.22.1 Liquid Nitrogen System								-	-	-
3.2.22.2 Liquid Oxygen System (LOX)								-	-	-
3.2.22.3 Aircraft Struts With Nitrogen								-	-	-
3.2.22.4 Aircraft Tires								-	-	-
3.2.22.5 Aircraft Engine Oil								-	-	-
3.2.22.6 Aircraft Hydraulic Reservoir								-	-	-
3.2.22.7 Aircraft Engine CSD								-	-	-
3.2.22.8 APU Oil								-	-	-
3.2.22.9 ATM Oil								-	-	-
3.2.22.10 Aircraft Accumulator With Nitrogen								-	-	-
3.2.22.11 Remove and Install Engine Fan Stopper/ Blockers								-	-	-
3.2.22.12 Change Data Link Printer Paper								-	-	-
3.3 COMMUNICATION SYSTEMS (C-5) TR: 1C-5A-2-8										
3.3.1 Flight Inter-Phone										
3.3.1.1 Theory of Operation								-	-	-
3.3.1.2 Perform Operational Check	*							-	-	-
3.3.1.3 Remove and Install Yoke/ Maintenance Control Wheel		*						-	-	-
3.3.1.4 Isolate Malfunctions	*							-	-	-
3.3.1.5 Perform Advanced Troubleshooting		*						-	-	-
3.3.2 Public Address										
3.3.2.1 Theory of Operation								-	-	-
3.3.2.2 Perform Operational Check	*							-	-	-
3.3.2.3 PA Amplifier								-	-	-
3.3.2.4 Isolate Malfunctions	*							-	-	-
3.3.2.5 Perform Advanced Troubleshooting		*						-	-	-
3.3.3 High Frequency (HF) Radio										

**C-5 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
3.3.3.1 Theory of Operation								-	-	-
3.3.3.2 Perform Operational Check	*							-	-	-
3.3.3.3 Remove and Install Antenna								-	-	-
3.3.3.4 Isolate Malfunctions	*							-	-	-
3.3.3.5 Perform Advanced Troubleshooting		*						-	-	-
3.3.4 Very/ Ultra High Frequency (V/UHF) Radio										
3.3.4.1 Theory of Operation								-	-	-
3.3.4.2 Perform Operational Check										
3.3.4.2.1 Normal	*							-	-	-
3.3.4.2.2 Have Quick								-	-	-
3.3.4.2.3 Secure								-	-	-
3.3.4.3 Isolate Malfunctions	*							-	-	-
3.3.4.4 Perform Advance Troubleshooting		*						-	-	-
3.3.5 Ultra High Frequency (UHF) Radio System										
3.3.5.1 Theory of Operation								-	-	-
3.3.5.2 Perform Operational Check										
3.3.5.2.1 Normal	*							-	-	-
3.3.5.2.2 Have Quick								-	-	-
3.3.5.3 Isolate Malfunctions	*							-	-	-
3.3.5.4 Perform Advanced Troubleshooting		*						-	-	-
3.3.6 AERO-I SATCOM System										
3.3.6.1 Theory of Operation								-	-	-
3.3.6.2 Perform Operational Checks	*							-	-	-
3.3.6.3 Isolate Malfunctions	*							-	-	-
3.3.6.4 Perform Advanced Troubleshooting		*						-	-	-
3.3.7 L-Band Aero-C SATCOM										
3.3.7.1 Theory of Operation								-	-	-
3.3.7.2 Perform Operational Checks								-	-	-
3.3.7.3 Isolate Malfunctions								-	-	-
3.3.7.4 Perform Advanced Troubleshooting								-	-	-
3.3.8 UHF Satellite Terminal System (USTS)										
3.3.8.1 Theory of Operation								-	-	-
3.3.8.2 Perform Operational Checks								-	-	-
3.3.8.3 Isolate Malfunctions								-	-	-
3.3.8.4 Perform Advanced Troubleshooting								-	-	-
3.3.9 Emergency Locator Transmitters (ELT)										
3.3.9.1 Theory of Operation								-	-	-
3.3.9.2 Perform Operational Checks	*							-	-	-
3.3.9.3 Remove and Install Battery Pack								-	-	-
3.3.9.4 Register ELT								-	-	-
3.3.9.5 Isolate Malfunctions	*							-	-	-
3.3.9.6 Perform Advanced Troubleshooting		*						-	-	-
3.3.10 Underwater Locator/ Underwater Acoustical Beacon										

**C-5 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
3.3.10.1 Theory of Operation								-	-	-
3.3.10.2 Perform Operational Checks								-	-	-
3.3.11 Wideband Secure Voice (WBSV)										
3.3.11.1 Theory of Operation								-	-	-
3.3.11.2 Perform Operational Checks								-	-	-
3.3.11.3 Isolate Malfunctions								-	-	-
3.3.11.4 Perform Advanced Troubleshooting								-	-	-
3.3.12 Narrowband Secure Voice (NBSV)										
3.3.12.1 Theory of Operation								-	-	-
3.3.12.2 Perform Operational Checks								-	-	-
3.3.12.3 Isolate Malfunctions								-	-	-
3.3.12.4 Perform Advanced Troubleshooting								-	-	-
3.3.13 Cockpit Voice Recorder										
3.3.13.1 Theory of Operation								-	-	-
3.3.13.2 Perform Operational Checks	*							-	-	-
3.3.13.3 Isolate Malfunctions	*							-	-	-
3.3.13.4 Perform Advanced Troubleshooting		*						-	-	-
3.3.14 Static Dischargers										
3.3.14.1 Theory of Operation								-	-	-
3.3.14.2 Perform Inspection								-	-	-
3.3.14.3 Remove and Install Static Discharger								-	-	-
3.4 NAVIGATION SYSTEMS TR: 1C-5A-2-8 Series										
3.4.1 Identification Friend or Foe (IFF) Transponders										
3.4.1.1 Theory of Operation								-	-	-
3.4.1.2 Perform Operational Check										
3.4.1.2.1 Mode 1, Mode 2, Mode 3A, Mode C	*							-	-	-
3.4.1.2.2 Mode 4	*							-	-	-
3.4.1.2.3 Mode 5								-	-	-
3.4.1.2.4 Mode S	*							-	-	-
3.4.1.3 Isolate Malfunctions	*							-	-	-
3.4.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.4.2 Tactical Air Navigation (TACAN)										
3.4.2.1 Theory of Operation								-	-	-
3.4.2.2 Perform Operational Checks	*							-	-	-
3.4.2.3 Isolate Malfunctions	*							-	-	-
3.4.2.4 Perform Advanced Troubleshooting		*						-	-	-
3.4.3 Automatic Direction Finder (ADF)										
3.3.13.1 Theory of Operation								-	-	-
3.3.13.2 Perform Operational Checks								-	-	-
3.3.13.3 Isolate Malfunctions								-	-	-
3.3.13.4 Perform Advanced Troubleshooting								-	-	-
3.4.4 Traffic Alert and Collision Avoidance System										
3.4.4.1 Theory of Operation								-	-	-

**C-5 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
3.4.4.2 Perform Operational Checks	*							-	-	-
3.4.4.3 Isolate Malfunctions	*							-	-	-
3.4.4.4 Perform Advanced Troubleshooting		*						-	-	-
3.4.5 Navigation Selection Panel (NSP) TR: 1C-5A-2-6										
3.4.5.1 Theory of Operation								-	-	-
3.4.5.2 Perform Operational Checks	*							-	-	-
3.4.5.3 Isolate Malfunctions	*							-	-	-
3.4.5.4 Perform Advanced Troubleshooting		*						-	-	-
3.4.6 Multi-Mode Receiver (MMR)										
3.4.6.1 Theory of Operation								-	-	-
3.4.6.2 Perform Operational Checks	*							-	-	-
3.4.6.3 Isolate Malfunctions	*							-	-	-
3.4.6.4 Perform Advanced Troubleshooting		*						-	-	-
3.4.7 Embedded GPS/ INS (EGI)										
3.4.7.1 Theory of Operation								-	-	-
3.4.7.2 Perform Operational Checks	*							-	-	-
3.4.7.3 Isolate Malfunctions	*							-	-	-
3.4.7.4 Perform Advanced Troubleshooting		*						-	-	-
3.5 RADAR (C-5) TR: 1C-5A-2-8 Series										
3.5.1 Color Weather Radar										
3.5.1.1 Theory of Operation								-	-	-
3.5.1.2 Perform Operational Checks	*							-	-	-
3.5.1.3 Perform Pressurization Check								-	-	-
3.5.1.4 Remove/ Install								-	-	-
3.5.1.4.1 Antenna	*							-	-	-
3.5.1.4.2 Waveguide								-	-	-
3.5.1.4.3 Desiccant Crystals	*									
3.5.1.5 Isolate Malfunctions	*							-	-	-
3.5.1.6 Perform Advanced Troubleshooting		*						-	-	-
3.5.2 Combined Altitude Radar Altimeter (CARA)										
3.5.2.1 Theory of Operation								-	-	-
3.5.2.2 Perform Operational Checks	*							-	-	-
3.5.2.3 Isolate Malfunctions	*							-	-	-
3.5.2.4 Perform Advanced Troubleshooting		*						-	-	-
3.6 MISSION SYSTEMS (C-5) TR: 1C-5A-2-8 Series										
3.6.1 Core Processing System										
3.6.1.1 Theory of Operation								-	-	-
3.6.1.2 Perform Operational Checks	*							-	-	-
3.6.1.3 Isolate Malfunctions	*							-	-	-
3.6.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.6.2 Controls and Display System TR: 1C-5A-2-6-1										

**C-5 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
3.6.2.1 Theory of Operation								-	-	-
3.6.2.2 Perform Operational Checks	*							-	-	-
3.6.2.3 Operate System	*							-	-	-
3.6.2.4 Isolate Malfunctions	*							-	-	-
3.6.2.5 Perform Advanced Troubleshooting		*						-	-	-
<b>3.7 INTERMEDIATE MAINTENANCE (C-5) TR: 1C-5A-2-8 Series</b>										
<b>3.7.1 Interphone System</b>										
<b>3.7.1.1 Interphone Control Box</b>										
3.7.1.1.1 Perform Minimum System Performance Check								-	-	-
3.7.1.1.2 Troubleshoot to SRU								-	-	-
3.7.1.1.3 Remove and Install SRU								-	-	-
3.7.1.1.4 Build and Repair Cords								-	-	-
3.7.1.1.5 Overhaul Yoke Assembly								-	-	-
<b>3.7.2 Public Address System</b>										
<b>3.7.2.1 Public Address Control Box</b>										
3.7.2.1.1 Perform Minimum System Performance Check								-	-	-
3.7.2.1.2 Troubleshoot to SRU								-	-	-
3.7.2.1.3 Remove and Install SRU								-	-	-
<b>3.7.2.2 Public Address Amplifier</b>										
3.7.2.2.1 Perform Minimum System Performance Check								-	-	-
3.7.2.2.2 Troubleshoot to SRU								-	-	-
3.7.2.2.3 Remove and Install SRU								-	-	-
<b>3.7.2.3 HF Communication Systems</b>										
<b>3.7.2.3.1 HF Control Box</b>										
3.7.2.3.1.1 Perform Minimum System Performance Check								-	-	-
3.7.2.3.1.2 Troubleshoot to SRU								-	-	-
3.7.2.3.1.3 Remove and Install SRU								-	-	-
<b>3.7.2.3.2 HF Receiver/ Transmitter</b>										
3.7.2.3.2.1 Perform Minimum System Performance Check								-	-	-
3.7.2.3.2.2 Troubleshoot to SRU								-	-	-
3.7.2.3.2.3 Remove and Install SRU								-	-	-
<b>3.7.2.3.3 HF Coupler</b>										
3.7.2.3.3.1 Perform Minimum System Performance Check								-	-	-
3.7.2.3.3.2 Troubleshoot to SRU								-	-	-
3.7.2.3.3.3 Remove and Install SRU								-	-	-
<b>3.7.2.4 UHF Communication System</b>										
<b>3.7.2.4.1 UHF Control Box</b>										
3.7.2.4.1.1 Perform Minimum System Performance Check								-	-	-

**C-5 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
3.7.2.4.1.2 Troubleshoot to SRU								-	-	-
3.7.2.4.1.3 Remove and Install SRU								-	-	-
3.7.2.4.2 UHF Receiver/ Transmitter										
3.7.2.4.2.1 Perform Minimum System Performance Check								-	-	-
3.7.2.4.2.2 Troubleshoot to SRU								-	-	-
3.7.2.4.2.3 Remove and Install SRU								-	-	-
3.7.2.5 VHF Navigation System										
3.7.2.5.1 Perform Minimum System Performance Check								-	-	-
3.7.2.5.2 Troubleshoot to SRU								-	-	-
3.7.2.5.3 Remove and Install SRU								-	-	-
3.7.2.6 TACAN										
3.7.2.6.1 TACAN Receiver/ Transmitter										
3.7.2.6.1.1 Perform Minimum System Performance Check								-	-	-
3.7.2.6.1.2 Troubleshoot to SRU								-	-	-
3.7.2.6.1.3 Remove and Install SRU								-	-	-
3.7.2.6.2 TACAN Mount										
3.7.2.6.2.1 Perform Minimum System Performance Check								-	-	-
3.7.2.6.2.2 Troubleshoot to SRU								-	-	-
3.7.2.6.2.3 Remove and Install SRU								-	-	-
3.7.2.7 Inertial Navigation System (INS)										
3.7.2.7.1 Inertial Navigation Unit										
3.7.2.7.1.1 Perform Minimum System Performance Check								-	-	-
3.7.2.7.1.2 Program Navigational Unit								-	-	-
3.7.2.7.1.3 Burnishing								-	-	-
3.7.2.7.2 INS Cooling Unit										
3.7.2.7.2.1 Perform Minimum System Performance Check								-	-	-
3.7.2.7.2.2 Troubleshoot to SRU								-	-	-
3.7.2.7.2.3 Remove and Install SRU								-	-	-
3.7.2.7.3 Navigation Select Panel										
3.7.2.7.3.1 Perform Minimum System Performance Check								-	-	-
3.7.2.7.3.2 Troubleshoot to SRU								-	-	-
3.7.2.7.3.3 Remove and Install SRU								-	-	-
3.7.2.8 Color Weather Radar System										
3.7.2.8.1 Color Weather Radar Receiver/ Transmitter										
3.7.2.8.1.1 Perform Minimum System Performance Check								-	-	-
3.7.2.8.1.2 Troubleshoot to SRU								-	-	-
3.7.2.8.1.3 Remove and Install SRU								-	-	-

**C-5 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
3.7.2.8.2 Color Weather Radar Multi-Function Display										
3.7.2.8.2.1 Perform Minimum System Performance Check								-	-	-
3.7.2.8.2.2 Troubleshoot to SRU								-	-	-
3.7.2.8.2.3 Remove and Install SRU								-	-	-
3.7.2.8.3 Color Weather Radar Control Box										
3.7.2.8.3.1 Perform Minimum System Performance Check								-	-	-
3.7.2.8.3.2 Troubleshoot to SRU								-	-	-
3.7.2.8.3.3 Remove and Install SRU								-	-	-
3.7.2.9 FMS 800 System										
3.7.2.9.1 Control Display Unit										
3.7.2.9.1.1 Perform BRAT Check								-	-	-
3.7.2.9.2 Bus System Interface Unit										
3.7.2.9.2.1 Perform BRAT Check								-	-	-

**C-17 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 C-17 Training Requirements**

- NOTE 1: The apprentice course, J3ABR2A8X1XXXXX, MAF Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.
- NOTE 2: All course requirements are trained in the 3-level resident course during wartime.
- NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.
- NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).
- NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an "\*" does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.
- NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908

<b>4.1 GENERAL ORGANIZATIONAL MAINTENANCE</b> TR: Applicable C-17 Technical Orders										
4.1.1 Flightline Safety/ Precautions/ Security								-	-	-
4.1.2 Aircraft Familiarization										
4.1.2.1 Aircraft Safe for Maintenance	*							-	-	-
4.1.2.2 Select/ Use Safetying Devices								-	-	-
4.1.2.3 Major Structural Areas								-	-	-
4.1.2.4 Major Systems								-	-	-
4.1.2.5 Operate Cargo Doors								-	-	-
4.1.2.6 Open/ Close Nose Radomes	*							-	-	-
4.1.2.7 Open/ Close Tail Radomes								-	-	-
4.1.2.8 Enter/ Exit Vertical Stabilizer								-	-	-
4.1.2.9 Enter/ Exit Horizontal Stabilizer								-	-	-
4.1.2.10 Aircraft Egress Procedures								-	-	-
4.1.2.11 Underfloor Tunnel Entry Procedures (Power On/Off)	*							-	-	-
4.1.3 Load Software Using ADTD	*							-	-	-
4.1.4 Load Software Using Laptop Computer	*							-	-	-
<b>4.2 GENERAL MAINTENANCE TASKS (C-17)</b> TR: Applicable C-17 Technical Orders										
4.2.1 Technical Order Familiarization								-	-	-
4.2.2 Perform Dropped Object Prevention Inspection								-	-	-
4.2.3 Statically Ground Aircraft								-	-	-
4.2.4 Aircraft Jacking										
4.2.4.1 Jacking Supervisor								-	-	-
4.2.4.2 Jacking Team Member								-	-	-
4.2.5 Refuel/ Defuel Aircraft										
4.2.5.1 Supervisor								-	-	-
4.2.5.2 Panel Operator								-	-	-
4.2.5.3 CSS Supervisor								-	-	-
4.2.6 Open and Close Engine Cowling								-	-	-
4.2.7 Remove and Install Aircraft Maintenance								-	-	-

**C-17 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
Access Panels										
4.2.8 Operate Hydraulics								-	-	-
4.2.9 Launch/ Recover Aircraft								-	-	-
4.2.10 Perform Aircraft Marshaling Procedures								-	-	-
4.2.11 Perform Aircraft HSC								-	-	-
4.2.12 Apply Power										
4.2.12.1 APU								-	-	-
4.2.12.2 External Electrical Power	*							-	-	-
4.2.12.3 Apply Cooling Air								-	-	-
4.2.13 Tow Aircraft										
4.2.13.1 Wing/ Tail Walker								-	-	-
4.2.13.2 Brake Operator								-	-	-
4.3 COMMUNICATION SYSTEMS (C-17) TR: Applicable C-17 Technical Orders										
4.3.1 Integrated Radio Management System (IRMS)										
4.3.1.1 Theory of Operation								-	-	-
4.3.1.2 Perform Operational Check	*							-	-	-
4.3.1.3 Isolate Malfunctions	*							-	-	-
4.3.1.4 Advanced Troubleshooting		*						-	-	-
4.3.2 Flight Interphone										
4.3.2.1 Theory of Operation								-	-	-
4.3.2.2 Perform Operational Check	*							-	-	-
4.3.2.3 Remove/ Install										
4.3.2.3.1 Control Stick Sensor Assembly								-	-	-
4.3.2.3.2 Control Grip	*							-	-	-
4.3.2.3.3 Nose Wheel Tilter Switch								-	-	-
4.3.2.4 Isolate Malfunctions	*							-	-	-
4.3.2.5 Advanced Troubleshooting		*						-	-	-
4.3.3 Cargo Interphone										
4.3.3.1 Theory of Operation								-	-	-
4.3.3.2 Perform Operational Check	*							-	-	-
4.3.3.3 Isolate Malfunctions	*							-	-	-
4.3.3.4 Advanced Troubleshooting		*						-	-	-
4.3.4 Maintenance Interphone										
4.3.4.1 Theory of Operation								-	-	-
4.3.4.2 Perform Operational Check	*							-	-	-
4.3.4.3 Isolate Malfunctions	*							-	-	-
4.3.4.4 Advanced Troubleshooting		*						-	-	-
4.3.5 Remote Cargo Winch Controller										
4.3.5.1 Theory of Operation								-	-	-
4.3.5.2 Perform Operational Check								-	-	-
4.3.5.3 Isolate Malfunctions								-	-	-
4.3.5.4 Advanced Troubleshooting								-	-	-
4.3.6 High Frequency (HF) Radio										

**C-17 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
4.3.6.1 Theory of Operation								-	-	-
4.3.6.2 Perform Operational Check	*							-	-	-
4.3.6.3 Remove/ Install										
4.3.6.3.1 Antenna								-	-	-
4.3.6.3.2 Feedline Assembly								-	-	-
4.3.6.3.3 Coupler Mount								-	-	-
4.3.6.4 Isolate Malfunctions	*							-	-	-
4.3.6.5 Advanced Troubleshooting		*						-	-	-
4.3.7 Automatic Communications Processor										
4.3.7.1 Theory of Operation								-	-	-
4.3.7.2 Perform Operational Check								-	-	-
4.3.7.3 Isolate Malfunctions								-	-	-
4.3.7.4 Advanced Troubleshooting								-	-	-
4.3.8 Very High Frequency (VHF) AM/FM Radio										
4.3.8.1 Theory of Operation								-	-	-
4.3.8.2 Perform Operational Check	*							-	-	-
4.3.8.3 Isolate Malfunctions	*							-	-	-
4.3.8.4 Advanced Troubleshooting		*						-	-	-
4.3.9 Ultra High Frequency (UHF) Radio System										
4.3.9.1 Theory of Operation								-	-	-
4.3.9.2 Perform Operational Check	*							-	-	-
4.3.9.3 Isolate Malfunctions	*							-	-	-
4.3.9.4 Perform Advanced Troubleshooting		*						-	-	-
4.3.10 UHF Direction Finder (DF)										
4.3.10.1 Theory of Operation								-	-	-
4.3.10.2 Perform Operational Check								-	-	-
4.3.10.3 Remove and Install Antenna								-	-	-
4.3.10.4 Isolate Malfunctions								-	-	-
4.3.10.5 Perform Advanced Troubleshooting								-	-	-
4.3.11 Multimode Communications TR: Applicable C-17 Technical Orders										
4.3.11.1 Theory of Operation								-	-	-
4.3.11.2 Perform Operational Check										
4.3.11.2.1 Normal	*							-	-	-
4.3.11.2.2 Have Quick								-	-	-
4.3.11.2.3 Secure								-	-	-
4.3.11.3 Remove and Install Switching Unit								-	-	-
4.3.11.4 Isolate Malfunctions	*							-	-	-
4.3.11.5 Advanced Troubleshooting		*						-	-	-
4.3.12 Narrowband Secure Voice (NBSV) TR: Applicable C-17 Technical Orders										
4.3.12.1 Theory of Operation								-	-	-
4.3.12.2 Perform Operational Checks								-	-	-
4.3.12.3 Isolate Malfunctions								-	-	-

**C-17 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
4.3.12.4 Advanced Troubleshooting								-	-	-
4.3.13 Cockpit Voice Recorder										
4.3.13.1 Theory of Operation								-	-	-
4.3.13.2 Perform Operational Checks	*							-	-	-
4.3.13.3 Isolate Malfunctions	*							-	-	-
4.3.13.4 Advanced Troubleshooting		*						-	-	-
4.3.14 Emergency Locator Transmitters (ELT)										
4.3.14.1 Theory of Operation								-	-	-
4.3.14.2 Perform Operational Check	*							-	-	-
4.3.14.3 Remove and Install Battery								-	-	-
4.3.14.4 Register (ELT)								-	-	-
4.3.14.5 Isolate Malfunctions	*							-	-	-
4.3.14.6 Advanced Troubleshooting		*						-	-	-
4.3.15 Underwater Acoustical Beacon (UAB) Underwater Locator Beacon										
4.3.15.1 Theory of Operation								-	-	-
4.3.15.2 Perform Operational Checks								-	-	-
4.3.15.3 Isolate Malfunctions								-	-	-
4.3.16 Central Aural Warning System										
4.3.16.1 Theory of Operation								-	-	-
4.3.16.2 Perform Operational Checks	*							-	-	-
4.3.16.3 Isolate Malfunctions	*							-	-	-
4.3.16.4 Advanced Troubleshooting		*						-	-	-
4.3.17 Public Address (PA)										
4.3.17.1 Theory of Operation								-	-	-
4.3.17.2 Perform Operational Checks	*							-	-	-
4.3.17.3 Isolate Malfunctions	*							-	-	-
4.3.17.4 Advanced Troubleshooting		*						-	-	-
4.3.18 Mission Computing/ Electronic Display System (MC/ EDS)										
4.3.18.1 Theory of Operation								-	-	-
4.3.18.2 Perform Operational Checks	*							-	-	-
4.3.18.3 Operate Mc/ EDS LRUs	*							-	-	-
4.3.18.4 Isolate Malfunctions	*							-	-	-
4.3.18.5 Advanced Troubleshooting		*						-	-	-
4.3.19 SATCOM										
4.3.19.1 AERO-I										
4.3.19.1.1 Theory of Operation								-	-	-
4.3.19.1.2 Perform Operational Checks	*							-	-	-
4.3.19.1.3 Remove and Install										
4.3.19.1.3.1 Aeronautical Operational Communication Printer								-	-	-
4.3.19.1.3.2 Aircraft Personality Module								-	-	-
4.3.19.1.3.3 Ethernet Network Switch								-	-	-
4.3.19.1.4 Repair the Aircraft Personality Module								-	-	-
4.3.19.1.5 Isolate Malfunctions	*							-	-	-

**C-17 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: 1C-17A-2-23JG-10-6/ 1C-17A-2-23FI-00-1										
4.3.19.1.6 Advanced Troubleshooting TR: 1C-17A-2-23JG-10-6/ 1C-17A-2-23FI-00-1		*						-	-	-
4.3.19.2 Demand Assigned Multiple Access (DAMA)										
4.3.19.2.1 Theory of Operation								-	-	-
4.3.19.2.2 Perform Operational Checks								-	-	-
4.3.19.2.3 Isolate Malfunctions								-	-	-
4.3.19.2.4 Advanced Troubleshooting								-	-	-
4.3.19.3 INMARSAT/ AERO-H TR: 1C-17AI-2-23JG-10-5/ 1C-17-2-23JG-10-6										
4.3.19.3.1 Theory of Operation								-	-	-
4.3.19.3.2 Perform Operational Checks								-	-	-
4.3.19.3.3 Remove and Install Antenna								-	-	-
4.3.19.3.4 Isolate Malfunctions TR: 1C-17A-2-23JG-10-6/ 1C-17A-2-23FI-00-1								-	-	-
4.3.19.3.5 Perform Advanced Troubleshooting TR: 1C-17A-2-23JG-10-6/ 1C-17A-2-23FI-00-1								-	-	-
4.3.19.4 Army SATCOM										
4.3.19.4.1 Theory of Operation								-	-	-
4.3.19.4.2 Perform Operational Checks								-	-	-
4.3.19.4.3 Remove and Install Army Satellite Antenna								-	-	-
4.3.19.4.4 Isolate Malfunctions TR: 1C-17A-2-23JG-10-6/ 1C-17A-2-23FI-00-1								-	-	-
4.3.19.4.5 Perform Advanced Troubleshooting TR: 1C-17A-2-23JG-10-6/ 1C-17A-2-23FI-00-1								-	-	-
4.3.19.5 Combat Tracker II (CTII)										
4.3.19.5.1 Theory of Operation								-	-	-
4.3.19.5.2 Install/ Remove CTII Kit								-	-	-
4.3.19.6 Real Time Information in Cockpit (RTIC)										
4.3.19.6.1 Theory of Operation								-	-	-
4.3.19.6.2 Install/ Remove RTIC Kit								-	-	-
4.3.19.7 Flying Local Area Network (FLAN)										
4.3.19.7.1 Theory of Operation								-	-	-
4.3.19.7.2 Perform Operational Checks								-	-	-
4.3.19.7.3 Isolate Malfunctions								-	-	-
4.3.19.7.4 Advanced Troubleshooting								-	-	-
4.3.19.8 Bus System Interface Unit										

**C-17 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
4.3.19.8.1 Theory of Operation								-	-	-
4.3.19.8.2 Isolate Malfunctions								-	-	-
4.3.19.8.3 Advanced Troubleshooting								-	-	-
4.4 NAVIGATION SYSTEMS TR: Applicable C-17 Technical Orders										
4.4.1 Identification Friend or Foe (IFF) Transponders (AR/ APX-119)										
4.4.1.1 Theory of Operation								-	-	-
4.4.1.2 Perform Operational Check										
4.4.1.2.1 Mode 1, Mode 2, Mode 3A, Mode C	*							-	-	-
4.4.1.2.2 Mode 4	*							-	-	-
4.4.1.2.3 Mode 5								-	-	-
4.4.1.2.4 Mode S	*							-	-	-
4.4.1.3 Isolate Malfunctions	*							-	-	-
4.4.1.4 Perform Advanced Troubleshooting		*						-	-	-
4.4.2 VHF Navigation/ Precision Landing System (VOR/ ILS/ MB/ MLS)										
4.4.2.1 Theory of Operation								-	-	-
4.4.2.2 Perform Operational Checks	*							-	-	-
4.4.2.3 Isolate Malfunctions	*							-	-	-
4.4.2.4 Advanced Troubleshooting		*						-	-	-
4.4.3 Distance Measuring Equipment										
4.4.3.1 Theory of Operation								-	-	-
4.4.3.2 Perform Operational Checks	*							-	-	-
4.4.3.3 Isolate Malfunctions	*							-	-	-
4.4.3.4 Advanced Troubleshooting		*						-	-	-
4.4.4 Tactical Air Navigation (TACAN)										
4.4.4.1 Theory of Operation								-	-	-
4.4.4.2 Perform Operational Checks	*							-	-	-
4.4.4.3 Isolate Malfunctions	*							-	-	-
4.4.4.4 Advanced Troubleshooting		*						-	-	-
4.4.5 Inertial Reference Unit (IRU)										
4.4.5.1 Theory of Operation								-	-	-
4.4.5.2 Perform Operational Checks								-	-	-
4.4.5.3 Isolate Malfunctions								-	-	-
4.4.5.4 Advanced Troubleshooting								-	-	-
4.4.6 Military Global Positioning System										
4.4.6.1 Theory of Operation								-	-	-
4.4.6.2 Perform Operational Checks	*							-	-	-
4.4.6.3 Secure Loading								-	-	-
4.4.6.4 Remove/ Install										
4.4.6.4.1 GPS Antenna Controller								-	-	-
4.4.6.4.2 Battery								-	-	-
4.4.6.5 Isolate Malfunctions	*							-	-	-
4.4.6.6 Advanced Troubleshooting		*						-	-	-
4.4.7 Civilian Global Positioning System										

**C-17 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
4.4.7.1 Theory of Operation								-	-	-
4.4.7.2 Perform Operational Checks	*							-	-	-
4.4.7.3 Isolate Malfunctions	*							-	-	-
4.4.7.4 Advanced Troubleshooting		*						-	-	-
4.4.8 Low Frequency Automatic Direction Finder (ADF)										
4.4.8.1 Theory of Operation								-	-	-
4.4.8.2 Perform Operational Checks								-	-	-
4.4.8.3 Isolate Malfunctions								-	-	-
4.4.8.4 Advanced Troubleshooting								-	-	-
4.4.9 Station Keeping Equipment (SKE)										
4.4.9.1 Theory of Operation								-	-	-
4.4.9.2 Perform Operational Checks	*							-	-	-
4.4.9.3 Remove/ Install										
4.4.9.3.1 Pedestal								-	-	-
4.4.9.3.2 OMNI Antenna								-	-	-
4.4.7.4 Isolate Malfunctions	*							-	-	-
4.4.7.5 Advanced Troubleshooting		*						-	-	-
4.4.10 Formation Flight System (FFS)										
4.4.10.1 Theory of Operation								-	-	-
4.4.10.2 Perform Operational Checks								-	-	-
4.4.10.3 Isolate Malfunctions								-	-	-
4.4.10.4 Advanced Troubleshooting								-	-	-
4.4.11 Traffic Alert and Collision Avoidance System (TCAS)										
4.4.11.1 Theory of Operation								-	-	-
4.4.11.2 Perform Operational Checks	*							-	-	-
4.4.11.3 Isolate Malfunctions	*							-	-	-
4.4.11.4 Advanced Troubleshooting		*						-	-	-
4.4.12 Color Weather Radar (AN/ APS-150)										
4.4.12.1 Theory of Operation								-	-	-
4.4.12.2 Perform Operational Checks	*							-	-	-
4.4.12.3 Remove/ Install										
4.4.12.3.1 Antenna Components	*							-	-	-
4.4.12.4 Isolate Malfunctions	*							-	-	-
4.4.12.5 Perform Advanced Troubleshooting		*						-	-	-
4.4.13 Combined Altitude Radar Altimeter										
4.4.13.1 Theory of Operation								-	-	-
4.4.13.2 Perform Operational Checks	*							-	-	-
4.4.13.3 Perform Calibration of RT	*							-	-	-
4.4.13.4 Isolate Malfunctions	*							-	-	-
4.4.13.5 Advanced Troubleshooting		*						-	-	-
4.4.14 Drogue Video										
4.4.14.1 Theory of Operation								-	-	-
4.4.14.2 Perform Operational Checks								-	-	-

**C-17 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
4.4.14.3 Isolate Malfunctions								-	-	-
4.4.14.4 Advanced Troubleshooting								-	-	-
4.4.15 Aircrew Data Transfer Device (ADTD)										
4.4.15.1 Theory of Operation								-	-	-
4.4.15.2 Perform Operational Checks	*							-	-	-
4.4.15.3 Remove/ Install										
4.4.15.3.1 ADTD								-	-	-
4.4.15.3.2 Pivot Tower								-	-	-
4.4.15.4 Isolate Malfunctions	*							-	-	-
4.4.15.5 Advanced Troubleshooting		*						-	-	-
4.4.16 Joint Precision Airdrop System (JPADS)										
4.4.16.1 Theory of Operation								-	-	-
4.4.16.2 Install/ Remove JPADS Kit								-	-	-

**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 5 C-130 Training Requirements**

- NOTE 1: The apprentice course, J3ABR2A8X1XXXXX, MAF Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.
- NOTE 2: All course requirements are trained in the 3-level resident course during wartime.
- NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.
- NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).
- NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an "\*" does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.
- NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908

5.1 GENERAL ORGANIZATIONAL MAINTENANCE TR: Applicable C-130 Technical Orders										
5.1.1 Aircraft Familiarization										
5.1.1.1 Aircraft Safe for Maintenance	*							-	-	-
5.1.1.2 Select/ Use Safetying Devices								-	-	-
5.1.1.3 Major Structural Areas								-	-	-
5.1.1.4 Major Systems								-	-	-
5.1.1.5 Aircraft Egress Procedures								-	-	-
5.2 GENERAL MAINTENANCE TASKS (C-130) TR: Applicable C-130 Technical Orders										
5.2.1 Technical Order Familiarization								-	-	-
5.2.2 Flightline Safety/ Precautions/ Security								-	-	-
5.2.3 Introduction to Aircraft/ Airframe Familiarization								-	-	-
5.2.4 Inspect/ Operate Portable External Electrical Power Unit								-	-	-
5.2.5 Inspect/ Use Ground Maintenance Stands								-	-	-
5.2.6 Dropped Object Prevention Program (DOPP)								-	-	-
5.2.7 Defensive Systems (DS) Familiarization on Applicable Aircraft								-	-	-
5.2.8 Statically Ground Aircraft								-	-	-
5.2.9 Apply/ Disconnect External Electrical Power	*							-	-	-
5.2.10 Perform Aircraft Wash								-	-	-
5.2.11 Jack Aircraft TR: Applicable C-130 Technical Orders										
5.2.11.1 Jacking Supervisor								-	-	-
5.2.11.2 Jacking Team Member								-	-	-
5.2.12 Perform Refuel/ Defuel Team Member Duties										
5.2.12.1 Refuel/ Defuel Supervisor								-	-	-
5.2.12.2 SPR Panel Operator								-	-	-
5.2.12.3 Flight Deck Fuel Operator								-	-	-

**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
5.2.13 Open and Close Engine Cowling								-	-	-
5.2.14 Remove and Install Aircraft Maintenance Access Panels								-	-	-
5.2.15 Perform Aircraft Marshaling Procedures								-	-	-
5.2.16 Tow Aircraft TR: Applicable C-130 Technical Orders										
5.2.16.1 Wing/ Tail Walker								-	-	-
5.2.16.2 Tow Supervisor								-	-	-
5.2.16.3 Brake Operator								-	-	-
5.2.17 Operate Cargo Doors								-	-	-
5.2.18 Deactivate Cargo Doors								-	-	-
5.2.19 Open/ Close Radomes	*							-	-	-
5.2.20 Recover/ Launch Aircraft								-	-	-
5.2.21 Perform Aircraft Inspections TR: Applicable C-130 Technical Orders										
5.2.21.1 Phase/ Periodic/ ISO								-	-	-
5.2.21.2 Home Station Check (HSC)								-	-	-
5.2.21.3 Basic Post-Flight/ Preflight/ Thruflight								-	-	-
5.3 COMMUNICATION SYSTEMS (C-130)										
5.3.1 Interphone (AN/ AIC-18A/ 25) TR: Applicable C-130 Technical Orders										
5.3.1.1 Theory of Operation								-	-	-
5.3.1.2 Perform Operational Check	*							-	-	-
5.3.1.3 Remove and Install Yoke Microphone Switch		*						-	-	-
5.3.1.4 Isolate Malfunctions	*							-	-	-
5.3.1.5 Perform Advanced Troubleshooting		*						-	-	-
5.3.1.6 Intermediate Maintenance TR: Applicable Technical Data										
5.3.1.6.1 Perform Minimum Performance Checks								-	-	-
5.3.1.6.2 Perform System Alignments								-	-	-
5.3.1.7 Static Dischargers										
5.3.1.7.1 Inspect								-	-	-
5.3.1.7.2 Remove and Install								-	-	-
5.3.2 Public Address (AN/ AIC-13) TR: Applicable C-130 Technical Orders										
5.3.2.1 Theory of Operation								-	-	-
5.3.2.2 Perform Operational Checks								-	-	-
5.3.2.3 Remove and Install Loudspeaker								-	-	-
5.3.2.4 Isolate Malfunctions								-	-	-
5.3.2.5 Perform Advanced Troubleshooting								-	-	-
5.3.2.6 Intermediate Maintenance TR: Applicable Technical Data										
5.3.2.6.1 Perform Minimum Performance Checks								-	-	-

**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
5.3.2.6.2 Perform System Alignments								-	-	-
5.3.3 High Frequency (HF) Radio (AN/ ARC-190) TR: Applicable C-130 Technical Orders										
5.3.3.1 Theory of Operation								-	-	-
5.3.3.2 Perform Operational Check	*							-	-	-
5.3.3.3 Remove and Install Coupler										
5.3.3.4 Remove and Install Long Wire/ Probe/ Tailcone								-	-	-
5.3.3.5 Remove and Install Coupler Feedline Assembly								-	-	-
5.3.3.6 Remove and Install HF Mast								-	-	-
5.3.3.7 Remove and Install Lightning Arrestor								-	-	-
5.3.3.8 Isolate Malfunctions	*							-	-	-
5.3.3.9 Perform Advanced Troubleshooting		*						-	-	-
5.3.3.10 Intermediate Maintenance TR: Applicable Technical Data										
5.3.3.10.1 Perform Minimum Performance Checks								-	-	-
5.3.3.10.2 Perform System Alignments								-	-	-
5.3.4 Automatic Communications Processor (CP-2024A/ ARC-190) TR: Applicable C-130 Technical Orders										
5.3.4.1 Theory of Operation								-	-	-
5.3.4.2 Perform Operational Check								-	-	-
5.3.4.3 Isolate Malfunctions								-	-	-
5.3.4.4 Perform Advanced Troubleshooting								-	-	-
5.3.5 Very High Frequency (VHF) AM/FM Radio (AN/ ARC_186) TR: Applicable C-130 Technical Orders										
5.3.5.1 Theory of Operation								-	-	-
5.3.5.2 Perform Operational Check	*							-	-	-
5.3.5.3 Isolate Malfunctions	*							-	-	-
5.3.5.4 Perform Advanced Troubleshooting		*						-	-	-
5.3.5.5 Intermediate Maintenance TR: Applicable Technical Data										
5.3.5.5.1 Perform Minimum Performance Checks								-	-	-
5.3.5.5.2 Perform System Alignments								-	-	-
5.3.6 VHF FM NONTAC (AN/ ARC-513) TR: Applicable C-130 Technical Orders										
5.3.6.1 Theory of Operation								-	-	-
5.3.6.2 Perform Operational Check	*							-	-	-
5.3.6.3 Isolate Malfunctions	*							-	-	-
5.3.6.4 Perform Advanced Troubleshooting		*						-	-	-
5.3.7 Ultra High Frequency (UHF) Radio System (AN/ ARC-164(V))										

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										
5.3.7.1 Theory of Operation								-	-	-
5.3.7.2 Perform Operational Check										
5.3.7.2.1 Normal	*							-	-	-
5.3.7.2.2 Have Quick	*							-	-	-
5.3.7.3 Isolate Malfunctions	*							-	-	-
5.3.7.4 Perform Advanced Troubleshooting		*						-	-	-
5.3.7.5 Intermediate Maintenance TR: Applicable Technical Data										
5.3.7.5.1 Perform Minimum Performance Checks								-	-	-
5.3.7.5.2 Perform System Alignments								-	-	-
5.3.8 Multipurpose Communications (AN/ ARC-210) TR: Applicable C-130 Technical Orders										
5.3.8.1 Theory of Operation								-	-	-
5.3.8.2 Perform Operational Check										
5.3.8.2.1 Normal								-	-	-
5.3.8.2.2 Have Quick								-	-	-
5.3.8.2.3 Secure								-	-	-
5.3.8.2.4 SATCOM								-	-	-
5.3.8.3 Isolate Malfunctions								-	-	-
5.3.8.4 Perform Advanced Troubleshooting								-	-	-
5.3.9 URC-133 SATCOM Group TR: Applicable C-130 Technical Orders										
5.3.9.1 Theory of Operation								-	-	-
5.3.9.2 Perform Operational Check								-	-	-
5.3.9.3 Isolate Malfunctions								-	-	-
5.3.9.4 Perform Advanced Troubleshooting								-	-	-
5.3.10 Satellite Communication (AN/ ARC-187) (AN/ WSX-9) TR: Applicable C-130 Technical Orders										
5.3.10.1 Theory of Operation								-	-	-
5.3.10.2 Perform Operational Check								-	-	-
5.3.10.3 Isolate Malfunctions								-	-	-
5.3.10.4 Perform Advanced Troubleshooting								-	-	-
5.3.11 UHF Satellite Terminal System (USTS) TR: Applicable C-130 Technical Orders										
5.3.11.1 Theory of Operation								-	-	-
5.3.11.2 Perform Operational Check								-	-	-
5.3.11.3 Isolate Malfunctions								-	-	-
5.3.11.4 Perform Advanced Troubleshooting								-	-	-
5.3.12 Cockpit Voice Recorder (AN/ ASH-35/ A-100A) TR: Applicable C-130 Technical Orders										
5.3.12.1 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
5.3.12.2 Perform Operational Checks	*							-	-	-
5.3.12.3 Isolate Malfunctions	*							-	-	-
5.3.12.4 Perform Advanced Troubleshooting		*						-	-	-
5.3.13 Emergency Locator Transmitters (ELT) TR: Applicable C-130 Technical Orders										
5.3.13.1 Theory of Operation								-	-	-
5.3.13.2 Perform Operational Check	*							-	-	-
5.3.13.3 Remove and Install Battery Pack								-	-	-
5.3.13.4 Register ELT								-	-	-
5.3.13.5 Isolate Malfunctions	*							-	-	-
5.3.13.6 Perform Advanced Troubleshooting		*						-	-	-
5.3.14 Underwater Locator/ Underwater Acoustical Beacon TR: Applicable C-130 Technical Orders										
5.3.14.1 Theory of Operation								-	-	-
5.3.14.2 Perform Operational Checks								-	-	-
5.3.14.3 Remove and Install Battery								-	-	-
5.3.14.4 Isolate Malfunctions								-	-	-
5.3.15 Cryptographic Devices TR: TM 3155-2USC-43-2/ Applicable C-130 Technical Orders										
5.3.15.1 Use	*							-	-	-
5.3.15.2 Load	*							-	-	-
5.3.16 Wideband Secure Voice TR: Applicable C-130 Technical Orders										
5.3.16.1 Theory of Operation								-	-	-
5.3.16.2 Perform Operational Check	*							-	-	-
5.3.16.3 Isolate Malfunctions	*							-	-	-
5.3.16.4 Perform Advanced Troubleshooting		*						-	-	-
5.3.16.5 Intermediate Maintenance TR: Applicable Technical Data										
5.3.16.5.1 Perform Minimum Performance Checks								-	-	-
5.3.16.5.2 Perform System Alignments								-	-	-
5.3.17 Narrowband Secure Voice TR: Applicable C-130 Technical Orders										
5.3.17.1 Theory of Operation								-	-	-
5.3.17.2 Perform Operational Checks								-	-	-
5.3.17.3 Isolate Malfunctions								-	-	-
5.3.17.4 Perform Advanced Troubleshooting								-	-	-
5.4 NAVIGATION SYSTEMS (C-130)										
5.4.1 Radar Identification Systems TR: Applicable C-130 Technical Orders										
5.4.1.1 Theory of Operation								-	-	-
5.4.2 IFF Transponders (AN/ APX-100) (AN/APX-119) TR: Applicable C-130 Technical Orders										

**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
5.4.2.1 Theory of Operation								-	-	-
5.4.2.2 Perform Operational Check										
5.4.2.2.1 Mode 1, Mode 2, Mode 3A, Mode C	*							-	-	-
5.4.2.2.2 Mode 4	*							-	-	-
5.4.2.2.3 Mode 5								-	-	-
5.4.2.2.4 Mode S	*							-	-	-
5.4.2.3 Isolate Malfunctions	*							-	-	-
5.4.2.4 Perform Advanced Troubleshooting		*						-	-	-
5.4.2.5 Intermediate Maintenance TR: Applicable Technical Data										
5.4.2.5.1 Perform Minimum Performance Checks								-	-	-
5.4.2.5.2 Perform System Alignments								-	-	-
5.4.3 VHF Omni Range/ Instrument Landing/ Marker Beacon (VOR/ ILS/ MB) TR: Applicable C-130 Technical Orders										
5.4.3.1 Theory of Operation								-	-	-
5.4.3.2 Perform Operational Checks	*							-	-	-
5.4.3.3 Remove and Install VOR Antenna								-	-	-
5.4.3.4 Isolate Malfunctions	*							-	-	-
5.4.3.5 Perform Advanced Troubleshooting		*						-	-	-
5.4.3.5 Intermediate Maintenance TR: 12R2-2ARN-147-2										
5.4.3.5.1 Perform Minimum Performance Checks								-	-	-
5.4.3.5.2 Perform System Alignments								-	-	-
5.4.4 Tactical Air Navigation (TACAN) TR: Applicable C-130 Technical Orders										
5.4.4.1 Theory of Operation								-	-	-
5.4.4.2 Perform Operational Checks	*							-	-	-
5.4.4.3 Isolate Malfunctions	*							-	-	-
5.4.4.4 Perform Advanced Troubleshooting		*						-	-	-
5.4.4.5 Intermediate Maintenance TR: 12R5-2ARN-118-2										
5.4.4.5.1 Perform Minimum Performance Checks								-	-	-
5.4.4.5.2 Perform System Alignments								-	-	-
5.4.5 Self-Contained Navigation Systems (SCNS)/ Computer Aided Navigation System (CANS) TR: Applicable C-130 Technical Orders										
5.4.5.1 Theory of Operation								-	-	-
5.4.5.2 Operate System	*							-	-	-
5.4.5.3 Perform Operational Check	*							-	-	-
5.4.5.4 Perform BICU Interface Check		*						-	-	-
5.4.5.5 Load Operational Flight Program (OFP)								-	-	-
5.4.5.6 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
5.4.5.7 Operate Wire Harness Test Set (WHTS)								-	-	-
5.4.5.8 Perform Advanced Troubleshooting		*						-	-	-
5.4.5.9 Intermediate Maintenance TR: Applicable Technical Data										
5.4.5.9.1 Perform Minimum Performance Checks								-	-	-
5.4.5.9.2 Perform System Alignments								-	-	-
5.4.6 Inertial Navigation System (INS) TR: Applicable C-130 Technical Orders										
5.4.6.1 Theory of Operation								-	-	-
5.4.6.2 Perform Operational Checks	*							-	-	-
5.4.6.3 Isolate Malfunctions	*							-	-	-
5.4.6.4 Perform Advanced Troubleshooting		*						-	-	-
5.4.6.5 Intermediate Maintenance TR: Applicable Technical Data										
5.4.6.5.1 Perform Minimum Performance Checks								-	-	-
5.4.7 Global Positioning System (AN/ ARN-151) TR: Applicable C-130 Technical Orders										
5.4.7.1 Theory of Operation								-	-	-
5.4.7.2 Perform Operational Checks	*							-	-	-
5.4.7.3 Remove and Replace Receive Batteries	*							-	-	-
5.4.7.4 Remove and Install Antenna								-	-	-
5.4.7.5 Remove and Install Antenna Controller								-	-	-
5.4.7.6 Isolate Malfunctions	*							-	-	-
5.4.7.7 Perform Advanced Troubleshooting		*						-	-	-
5.4.7.8 Intermediate Maintenance TR: 12R5-2ARN-151 Series Technical Data										
5.4.7.8.1 Perform Receiver Check								-	-	-
5.4.7.8.2 Perform Antenna Electronics Check								-	-	-
5.4.7.9 Perform CDU Check								-	-	-
5.4.8 Automatic Direction Finder (ADF) TR: Applicable C-130 Technical Orders										
5.4.8.1 Theory of Operation								-	-	-
5.4.8.2 Perform Operational Checks								-	-	-
5.4.8.3 Remove and Install Antenna								-	-	-
5.4.8.4 Isolate Malfunctions								-	-	-
5.4.8.5 Perform Advanced Troubleshooting								-	-	-
5.4.8.6 Intermediate Maintenance TR: Applicable Technical Data										
5.4.8.6.1 Perform Minimum Performance Checks								-	-	-
5.4.8.6.2 Perform System Alignments								-	-	-
5.4.9 UHF Direction Finder (DF) (DF-301E) (AN/ ARA-50) (AN/ ARA-25)										

**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										
5.4.9.1 Theory of Operation								-	-	-
5.4.9.2 Perform Operational Checks								-	-	-
5.4.9.3 Remove and Install Antenna								-	-	-
5.4.9.4 Isolate Malfunctions								-	-	-
5.4.9.5 Perform Advanced Troubleshooting								-	-	-
5.4.9.6 Intermediate Maintenance TR: Applicable Technical Data										
5.4.9.6.1 Perform Minimum Performance Checks								-	-	-
5.4.9.6.2 Perform System Alignments								-	-	-
5.4.10 Doppler (AN/ APN-218/ 147) TR: Applicable C-130 Technical Orders										
5.4.10.1 Theory of Operation								-	-	-
5.4.10.2 Perform Operational Checks	*							-	-	-
5.4.10.3 Remove and Install Doppler Velocity Sensor	*							-	-	-
5.4.10.4 Remove and Install Dehydrator	*							-	-	-
5.4.10.5 Isolate Malfunctions	*							-	-	-
5.4.10.6 Perform Advanced Troubleshooting		*						-	-	-
5.4.10.7 Intermediate Maintenance TR: 12P5-2APN-218-2										
5.4.10.7.1 Perform Minimum Performance Checks								-	-	-
5.4.10.7.2 Perform System Alignments								-	-	-
5.4.11 Traffic Alert and Collision Avoidance System TR: Applicable C-130 Technical Orders										
5.4.11.1 Theory of Operation								-	-	-
5.4.11.2 Perform Operational Checks	*							-	-	-
5.4.11.3 Remove and Install TA/ VSI								-	-	-
5.4.11.4 Isolate Malfunctions	*							-	-	-
5.4.11.5 Perform Advanced Troubleshooting		*						-	-	-
5.4.12 Station Keeping Equipment (SKE) (AN/APN-169C(V)) TR: Applicable C-130 Technical Orders										
5.4.12.1 Theory of Operation								-	-	-
5.4.12.2 Perform Operational Checks	*							-	-	-
5.4.12.3 Remove and Install Omni Directional Antenna								-	-	-
5.4.12.4 Remove and Install Antenna Pedestal								-	-	-
5.4.12.5 Remove and Install SKE Radome								-	-	-
5.4.12.6 Isolate Malfunctions	*							-	-	-
5.4.12.7 Perform Advanced Troubleshooting		*						-	-	-
5.4.12.8 Intermediate Maintenance TR: Applicable Technical Data										
5.4.12.8.1 Perform Minimum Performance								-	-	-

**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
Checks										
5.4.12.8.2 Perform System Alignments								-	-	-
5.4.13 Microwave Landing System (ARN-152) TR: Applicable C-130 Technical Orders										
5.4.13.1 Theory of Operation								-	-	-
5.4.13.2 Perform Operational Checks								-	-	-
5.4.13.3 Isolate Malfunctions								-	-	-
5.4.13.4 Perform Advanced Troubleshooting								-	-	-
5.4.14 NAV Select Panel TR: Applicable C-130 Technical Orders										
5.4.14.1 Theory of Operation								-	-	-
5.4.14.2 Perform Operational Checks								-	-	-
5.4.14.3 Isolate Malfunctions								-	-	-
5.4.14.4 Perform Advanced Troubleshooting								-	-	-
5.5 RADAR SYSTEMS (C-130)										
5.5.1 Search and Weather Radar (APN-59) TR: Applicable C-130 Technical Orders										
5.5.1.1 Theory of Operation								-	-	-
5.5.1.2 Perform Operational Checks	*							-	-	-
5.5.1.3 Remove/ Install										
5.5.1.3.1 Receiver/ Transmitter	*							-	-	-
5.5.1.3.2 Antenna		*						-	-	-
5.5.1.3.3 Displays	*							-	-	-
5.5.1.3.4 Waveguides		*						-	-	-
5.5.1.4 Isolate Malfunctions	*							-	-	-
5.5.1.5 Perform Advanced Troubleshooting		*						-	-	-
5.5.1.6 Intermediate Maintenance TR: 12P5-2APN59-32										
5.5.1.6.1 Perform Minimum Performance Checks								-	-	-
5.5.1.6.2 Perform System Alignments								-	-	-
5.5.2 Combined Altitude Radar Altimeter (CARA) TR: Applicable C-130 Technical Orders										
5.5.2.1 Theory of Operation								-	-	-
5.5.2.2 Perform Operational Checks	*							-	-	-
5.5.2.3 Perform Aircraft Installation Delay (AID) Adjustment	*							-	-	-
5.5.2.4 Isolate Malfunctions	*							-	-	-
5.5.2.5 Performed Advanced Troubleshooting		*						-	-	-
5.5.2.6 Intermediate Maintenance TR: Applicable Technical Data										
5.5.2.6.1 Perform Minimum Performance Checks								-	-	-
5.5.2.6.2 Perform System Alignments								-	-	-
5.5.3 Low Power Color Radar (AN/ APN-241) TR: Applicable C-130 Technical Orders										

**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
5.5.3.1 Theory of Operation								-	-	-
5.5.3.2 Perform Operational Checks	*							-	-	-
5.5.3.3 Remove and Install Antenna		*						-	-	-
5.5.3.4 Remove and Install Receiver Transmitter Processor (RTP)	*							-	-	-
5.5.3.5 Remove and Install Environmental Unit								-	-	-
5.5.3.6 Remove and Install Line Replaceable Modules (LRM)	*							-	-	-
5.5.3.7 Remove and Install Waveguides		*						-	-	-
5.5.3.8 Remove and Install Cursor Control	*							-	-	-
5.5.3.9 Isolate Malfunctions	*							-	-	-
5.5.3.10 Perform Advance Troubleshooting		*						-	-	-
5.5.4 Radar Pressurizing System (ASQ-14) TR: Applicable C-130 Technical Orders										
5.5.4.1 Theory of Operation								-	-	-
5.5.4.2 Perform Operational Checks								-	-	-
5.5.4.3 Remove and Install Air Compressor								-	-	-
5.5.4.4 Remove and Install Pressure Switch								-	-	-
5.5.4.5 Remove and Install Dehydrator								-	-	-
5.5.4.6 Remove and Install Dehydrator Desiccant								-	-	-
5.5.4.7 Isolate Malfunctions								-	-	-
5.5.4.8 Perform Advance Troubleshooting								-	-	-
5.5.4.9 Intermediate Maintenance TR: Applicable Technical Data										
5.5.4.9.1 Perform Minimum Performance Checks								-	-	-
5.6 MISSION SYSTEMS (C-130)										
5.6.1 Joint Airborne Communication Center/ Command Post (JACC/ CP) TR: Applicable Technical Data										
5.6.1.1 Theory of Operation								-	-	-
5.6.1.2 Perform Operational Checks								-	-	-
5.6.1.3 Isolate Malfunctions								-	-	-
5.6.1.4 Perform Advanced Troubleshooting								-	-	-
5.6.2 Joint Precision Airdrop System (JPADS)										
5.6.2.1 Theory of Operation								-	-	-
5.6.2.2 Perform Operational Checks								-	-	-
5.6.2.3 Configure/ De-Configure System								-	-	-
5.6.2.4 Isolate Malfunctions								-	-	-
5.6.3 Real Time Information in Cockpit (RTIC)										
5.6.3.1 Theory of Operation								-	-	-
5.6.3.2 Perform Operational Checks								-	-	-
5.6.3.3 Isolate Malfunctions								-	-	-
5.6.3.4 Perform Advance Troubleshooting								-	-	-
5.7 GENERAL ORGANIZATIONAL										

**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
MAINTENANCE (C-130J) TR: Applicable C-130J Technical Orders										
5.7.1 Aircraft Familiarization										
5.7.1.1 Aircraft safe for maintenance	*							-	-	-
5.7.1.2 Select/use safetying devices								-	-	-
5.7.1.3 Major structural areas								-	-	-
5.7.1.4 Major systems								-	-	-
5.7.1.5 Aircraft egress procedures								-	-	-
5.8 GENERAL MAINTENANCE TASKS (C-130J) TR: Applicable C-130J Technical Orders										
5.8.1 Technical order familiarization								-	-	-
5.8.2 Flightline safety/precautions/ security								-	-	-
5.8.3 Introduction to aircraft/airframe familiarization								-	-	-
5.8.4 Inspect/operate portable external electrical power unit								-	-	-
5.8.5 Inspect/use ground maintenance stands								-	-	-
5.8.6 Dropped object prevention program (DOPP)								-	-	-
5.8.7 Defensive systems (DS) familiarization on applicable aircraft								-	-	-
5.8.8 Statically ground aircraft								-	-	-
5.8.9 Apply/disconnect external electrical power	*							-	-	-
5.8.10 Perform aircraft wash								-	-	-
5.8.11 Operate Portable Maintenance Aide (PMA) / DTADS	*							-	-	-
5.8.12 Jack Aircraft										
5.8.12.1 Jacking supervisor								-	-	-
5.8.12.2 Jacking team member								-	-	-
5.8.13 Perform refuel/defuel team member duties								-	-	-
5.8.14 Open and close engine cowling								-	-	-
5.8.15 Remove and install aircraft maintenance access panels								-	-	-
5.8.16 Perform aircraft marshalling procedures								-	-	-
5.8.17 Tow Aircraft TR: Applicable C-130J Technical Orders										
5.8.17.1 Wing/tail walker duties								-	-	-
5.8.17.2 Brake operator								-	-	-
5.8.18 Operate cargo doors								-	-	-
5.8.19 Deactivate cargo doors								-	-	-
5.8.20 Open/close radomes	*							-	-	-
5.8.21 Recover/Launch aircraft								-	-	-
5.8.22 Perform Aircraft Inspections TR: Applicable C-130J Technical Orders										
5.8.22.1 Phase/periodic/ISO								-	-	-

**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
5.8.22.2 Home Station Check (HSC)								-	-	-
5.8.22.3 Basic post-flight/preflight/ thruflight								-	-	-
5.8.23 Apply Power TR: Applicable C-130J Technical Orders										
5.8.23.1 APU								-	-	-
5.8.23.2 Generator/Powered AGE								-	-	-
5.9 COMMUNICATION SYSTEMS (C-130J)										
5.9.1 Audio Integration System (Intercom) TR: Applicable C-130J Technical Orders										
5.9.1.1 Theory of Operation								-	-	-
5.9.1.2 Perform operational check	*							-	-	-
5.9.1.3 Perform Static Discharge Inspection	*							-	-	-
5.9.1.4 Remove and install Static Discharger								-	-	-
5.9.1.5 Remove and install Interphone Control Wheel Switch								-	-	-
5.9.1.6 Isolate Malfunctions	*							-	-	-
5.9.1.7 Perform Advanced Troubleshooting		*						-	-	-
5.9.2 Public Address System TR: Applicable C-130J Technical Orders										
5.9.2.1 Theory of Operation								-	-	-
5.9.2.2 Perform operational check	*							-	-	-
5.9.2.3 Remove and install Flight Deck Speaker								-	-	-
5.9.2.4 Remove and install Cargo Speaker								-	-	-
5.9.2.5 Isolate Malfunctions	*							-	-	-
5.9.2.6 Perform Advanced Troubleshooting		*						-	-	-
5.9.3 High Frequency (HF) Radio (AN / ARC-190) TR: Applicable C-130J Technical Orders										
5.9.3.1 Theory of Operation								-	-	-
5.9.3.2 Perform operational check	*							-	-	-
5.9.3.3 Remove and install Coupler	*							-	-	-
5.9.3.4 Remove and install Antenna								-	-	-
5.9.3.5 Isolate Malfunctions	*							-	-	-
5.9.3.6 Perform Advanced Troubleshooting		*						-	-	-
5.9.3.7 Intermediate Maintenance										
5.9.3.7.1 Perform minimum performance checks								-	-	-
5.9.3.7.2 Perform system alignments								-	-	-
5.9.4 Very High Frequency (VHF) AM / FM Radio (AN / ARC-222) TR: Applicable C-130 Technical Orders										
5.9.4.1 Theory of Operation								-	-	-
5.9.4.2 Perform operational check	*							-	-	-
5.9.4.3 Isolate Malfunctions	*							-	-	-
5.9.4.4 Perform Advanced Troubleshooting		*						-	-	-
5.9.4.5 Intermediate Maintenance										
5.9.4.5.1 Perform minimum performance checks								-	-	-

**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
5.9.4.5.2 Perform system alignments								-	-	-
5.9.5 Ultra High Frequency (UHF) Radio System (AN / ARC-164) TR: Applicable C-130J Technical Orders										
5.9.5.1 Theory of Operation								-	-	-
5.9.5.2 Perform operational check	*							-	-	-
5.9.5.3 Isolate Malfunctions	*							-	-	-
5.9.5.4 Perform Advanced Troubleshooting		*						-	-	-
5.9.5.5 Intermediate Maintenance										
5.9.5.5.1 Perform minimum performance checks								-	-	-
5.9.5.5.2 Perform system alignment								-	-	-
5.9.6 VHF / UHF Get Home Control Panel System TR: Applicable C-130J Technical Orders										
5.9.6.1 Theory of Operation								-	-	-
5.9.6.2 Perform operational check	*							-	-	-
5.9.6.3 Isolate Malfunctions	*							-	-	-
5.9.6.4 Perform Advanced Troubleshooting		*						-	-	-
5.9.7 UHF Satellite Terminal System (USTS)										
5.9.7.1 Theory of Operation								-	-	-
5.9.7.2 Perform operational check								-	-	-
5.9.7.3 Isolate Malfunctions								-	-	-
5.9.7.4 Perform Advanced Troubleshooting								-	-	-
5.9.8 Cockpit Voice Recorder TR: Applicable C-130J Technical Orders										
5.9.8.1 Theory of Operation								-	-	-
5.9.8.2 Perform operational check	*							-	-	-
5.9.8.3 Isolate Malfunctions	*							-	-	-
5.9.8.4 Perform Advanced Troubleshooting		*						-	-	-
5.9.9 Emergency Locator Transmitter (ELT)										
5.9.9.1 Theory of Operation								-	-	-
5.9.9.2 Perform operational check	*							-	-	-
5.9.9.3 Remove and install ELT	*							-	-	-
5.9.9.4 Register ELT								-	-	-
5.9.9.5 Isolate Malfunctions	*							-	-	-
5.9.9.6 Perform Advanced Troubleshooting		*						-	-	-
5.9.10 Underwater Locator / Underwater Acoustical Beacon TR: Applicable C-130J Technical Orders										
5.9.10.1 Theory of Operation								-	-	-
5.9.10.2 Perform operational check								-	-	-
5.9.10.3 Remove and install Battery								-	-	-
5.9.10.4 Isolate Malfunctions								-	-	-
5.9.11 Cryptographic Devices TR: Applicable C-130J Technical Orders										
5.9.11.1 Use	*							-	-	-

**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
5.9.11.2 Load	*							-	-	-
5.9.12 Wideband Secure Voice TR: Applicable C-130J Technical Orders										
5.9.12.1 Theory of Operation								-	-	-
5.9.12.2 Perform operational check								-	-	-
5.9.12.3 Isolate Malfunctions								-	-	-
5.9.12.4 Perform Advanced Troubleshooting								-	-	-
5.9.12.5 Intermediate Maintenance										
5.9.12.5.1 Perform minimum performance checks								-	-	-
5.9.12.5.2 Perform system alignment								-	-	-
5.9.13 Narrowband Secure Voice TR: Applicable C-130J Technical Orders										
5.9.13.1 Theory of Operation								-	-	-
5.9.13.2 Perform operational check								-	-	-
5.9.13.3 Isolate Malfunctions								-	-	-
5.9.13.4 Perform Advanced Troubleshooting								-	-	-
5.9.14 Multipurpose Communications (AN /ARC-210) TR: Applicable C-130J Technical Orders										
5.9.14.1 Theory of Operation								-	-	-
5.9.14.2 Perform Operational Check										
5.9.14.2.1 Normal	*							-	-	-
5.9.14.2.2 Have Quick								-	-	-
5.9.14.2.3 Secure								-	-	-
5.9.14.2.4 SATCOM								-	-	-
5.9.14.3 Isolate Malfunctions	*							-	-	-
5.9.14.4 Perform Advanced Troubleshooting		*						-	-	-
5.10 NAVIGATION SYSTEM (C-130J)										
5.10.1 Identification Friend Or Foe (IFF) Transponders (AN / APX-119) TR: Applicable C-130J Technical Orders										
5.10.1.1 Theory of Operation								-	-	-
5.10.1.2 Perform Operational Check										
5.10.1.2.1 Mode 1, Mode 2, Mode 3A, Mode C	*							-	-	-
5.10.1.2.2 Mode 4	*							-	-	-
5.10.1.2.3 Mode S	*							-	-	-
5.10.1.2.4 Mode 5								-	-	-
5.10.1.3 Isolate Malfunctions	*							-	-	-
5.10.1.4 Perform Advanced Troubleshooting		*						-	-	-
5.10.1.5 Intermediate Maintenance TR: Applicable technical data										
5.10.1.5.1 Perform system alignments								-	-	-
5.10.1.5.2 Perform minimum performance checks								-	-	-
5.10.2 Enhanced Traffic Collision Avoidance										

**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
System (ETCAS) (AN / APN-244) TR: Applicable C-130J Technical Orders										
5.10.2.1 Theory of Operation								-	-	-
5.10.2.2 Perform operational check	*							-	-	-
5.10.2.3 Remove and install LRUs Processor Mount								-	-	-
5.10.2.4 Isolate Malfunctions	*							-	-	-
5.10.2.5 Perform Advanced Troubleshooting		*						-	-	-
5.10.3 VHF Navigation System (AN / ARN-147) TR: Applicable C-130J Technical Orders										
5.10.3.1 Theory of Operation								-	-	-
5.10.3.2 Perform operational check	*							-	-	-
5.10.3.3 Remove and install VOR Antenna								-	-	-
5.10.3.4 Isolate Malfunctions	*							-	-	-
5.10.3.5 Perform Advanced Troubleshooting		*						-	-	-
5.10.3.6 Intermediate Maintenance										
5.10.3.6.1 Perform minimum performance checks								-	-	-
5.10.3.6.2 Perform system alignments								-	-	-
5.10.4 Tactical Air Navigation (TACAN) (AN / ARN-153) TR: Applicable C-130J Technical Orders										
5.10.4.1 Theory of Operation								-	-	-
5.10.4.2 Perform operational check	*							-	-	-
5.10.4.3 Isolate Malfunctions	*							-	-	-
5.10.4.4 Perform Advanced Troubleshooting		*						-	-	-
5.10.5 Embedded GPS / INS System (EGI) TR: Applicable C-130J Technical Orders										
5.10.5.1 Theory of Operation								-	-	-
5.10.5.2 Perform operational check	*							-	-	-
5.10.5.3 Remove and install Antenna Controller	*							-	-	-
5.10.5.4 Remove and install Antenna								-	-	-
5.10.5.5 Isolate Malfunctions	*							-	-	-
5.10.5.6 Perform Advanced Troubleshooting		*						-	-	-
5.10.6 Automatic Direction Finder (ADF) (DF-206A) TR: Applicable C-130J Technical Orders										
5.10.6.1 Theory of Operation								-	-	-
5.10.6.2 Perform operational check	*							-	-	-
5.10.6.3 Isolate Malfunctions	*							-	-	-
5.10.6.4 Perform Advanced Troubleshooting		*						-	-	-
5.10.6.5 Intermediate Maintenance TR: Applicable technical data										
5.10.6.5.1 Perform system alignments								-	-	-
5.10.6.5.2 Perform minimum performance checks								-	-	-

**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
5.10.7 UHF / VHF Direction Finder (DF) (DF-301E) TR: Applicable C-130J Technical Orders										
5.10.7.1 Theory of Operation								-	-	-
5.10.7.2 Perform operational check								-	-	-
5.10.7.3 Remove and install Antenna								-	-	-
5.10.7.4 Isolate Malfunctions								-	-	-
5.10.7.5 Perform Advanced Troubleshooting								-	-	-
5.10.7.6 Intermediate Maintenance TR: Applicable technical data										
5.10.7.6.1 Perform minimum performance checks								-	-	-
5.10.7.6.2 Perform system alignments								-	-	-
5.10.8 Station Keeping Equipment (SKE-2000) TR: Applicable C-130J Technical Orders										
5.10.8.1 Theory of Operation								-	-	-
5.10.8.2 Perform operational check	*							-	-	-
5.10.8.3 Remove and install SKE Radome								-	-	-
5.10.8.4 Remove and install Omni Antenna								-	-	-
5.10.8.5 Remove and install Directional Antenna								-	-	-
5.10.8.6 Isolate Malfunctions	*							-	-	-
5.10.8.7 Perform Advanced Troubleshooting		*						-	-	-
5.10.9 Low Power Color Radar (AN / APN-241)										
5.10.9.1 Theory of Operation								-	-	-
5.10.9.2 Perform operational check	*							-	-	-
5.10.9.3 Perform Lightning Diverter Check	*							-	-	-
5.10.9.4 Remove and install Receiver Transmitter Processor (RTP)	*							-	-	-
5.10.9.5 Remove and install Mount/ Blower Assembly	*							-	-	-
5.10.9.6 Remove and install Antenna	*							-	-	-
5.10.9.7 Remove and install Line Replaceable Modules (LRM)	*							-	-	-
5.10.9.8 Isolate Malfunctions	*							-	-	-
5.10.9.9 Perform Advanced Troubleshooting		*						-	-	-
5.10.10 Cursor Control Panel System TR: Applicable C-130J technical orders										
5.10.10.1 Theory of Operation								-	-	-
5.10.10.2 Perform operational check	*							-	-	-
5.10.10.3 Remove and install Aileron Control Wheel								-	-	-
5.10.10.4 Isolate Malfunctions	*							-	-	-
5.10.10.5 Perform Advanced Troubleshooting		*						-	-	-
5.10.11 Doppler Navigation System (AN / APN-218) TR: Applicable C-130J Technical Orders										

**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
5.10.11.1 Theory of Operation								-	-	-
5.10.11.2 Perform operational check								-	-	-
5.10.11.3 Remove and install Doppler Velocity Sensor								-	-	-
5.10.11.4 Remove and install Dehydrator								-	-	-
5.10.11.5 Isolate Malfunctions								-	-	-
5.10.11.6 Perform Advanced Troubleshooting								-	-	-
5.10.12 Radar Altimeter (RADALT) (HG-9550)										
5.10.12.1 Theory of Operation								-	-	-
5.10.12.2 Perform operational check	*							-	-	-
5.10.12.3 Isolate Malfunctions	*							-	-	-
5.10.12.4 Perform Advanced Troubleshooting		*						-	-	-
5.11 INTEGRATION and DISPLAY SYSTEMS (C-130J)										
5.11.1 Communication / Navigation Breaker Panel System (CNBP) TR: Applicable C-130J Technical Orders										
5.11.1.1 Theory of Operation								-	-	-
5.11.1.2 Perform operational check	*							-	-	-
5.11.1.3 Isolate Malfunctions	*							-	-	-
5.11.1.4 Perform Advanced Troubleshooting		*						-	-	-
5.11.2 Communication / Navigation Identification Management System (CNIMS) TR: Applicable C-130J Technical Orders										
5.11.2.1 Theory of Operation								-	-	-
5.11.2.2 Perform operational checks	*							-	-	-
5.11.2.3 Isolate Malfunctions	*							-	-	-
5.11.2.4 Perform Advanced Troubleshooting		*						-	-	-
5.11.2.5 Update/load/operate Software	*							-	-	-
5.11.3 Digital Mapping System TR: Applicable C-130J Technical Orders										
5.11.3.1 Theory of Operation								-	-	-
5.11.3.2 Perform operational check	*							-	-	-
5.11.3.3 Isolate Malfunctions	*							-	-	-
5.11.3.4 Perform Advanced Troubleshooting		*						-	-	-
5.12 REMOVE/INSTALL STANDARD MOUNT TR: Applicable C-130J Technical Orders										
5.12.1 Type 1	*							-	-	-
5.12.2 Type 2	*							-	-	-
5.12.3 Type 3	*							-	-	-
5.12.4 Type 4	*							-	-	-
5.12.5 Type 5	*							-	-	-
5.13 GENERAL ORGANIZATIONAL MAINTENANCE (C-130 AMP) TR: Applicable C-130 AMP 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										
5.13.1 Aircraft Familiarization										
5.13.1.1 Aircraft safe for maintenance	*							-	-	-
5.13.1.2 Select/use safetying devices								-	-	-
5.13.1.3 Major structural areas								-	-	-
5.13.1.4 Major systems								-	-	-
5.14 GENERAL MAINTENANCE TASKS (C-130 AMP) TR: Applicable C-130 AMP Technical Orders										
5.14.1 Technical order familiarization								-	-	-
5.14.2 Operate Interactive Electronic Technical Manual (IETM's)	*							-	-	-
5.14.3 Flightline safety/precautions/ security								-	-	-
5.14.4 Introduction to aircraft/airframe familiarization								-	-	-
5.14.5 Inspect/operate portable external electrical power unit								-	-	-
5.14.6 Inspect/use ground maintenance stands								-	-	-
5.14.7 Dropped object prevention program (DOPP)								-	-	-
5.14.8 Defensive systems (DS) familiarization on applicable aircraft								-	-	-
5.14.9 Statically ground aircraft								-	-	-
5.14.10 Apply/disconnect external electrical power	*							-	-	-
5.14.11 Jack Aircraft										
5.14.11.1 Jacking team member								-	-	-
5.14.12 Perform refuel/defuel team member duties								-	-	-
5.14.13 Open and close engine cowling								-	-	-
5.14.14 Remove and install aircraft maintenance access panels								-	-	-
5.14.15 Perform aircraft marshalling procedures								-	-	-
5.14.16 Operate Avionics Cooling Systems	*							-	-	-
5.14.17 Inspect Fiber Optic Cable								-	-	-
5.14.18 Test Fiber Optic Cable								-	-	-
5.14.19 Clean Fiber Optic Cable								-	-	-
5.14.20 Tow Aircraft TR: Applicable C-130 AMP Technical Orders										
5.14.20.1 Wing/tail walker duties								-	-	-
5.14.20.2 Brake operator								-	-	-
5.14.21 Operate cargo doors								-	-	-
5.14.22 Deactivate cargo doors								-	-	-
5.14.23 Open/close radomes	*							-	-	-
5.14.24 Recover/Launch aircraft								-	-	-

**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
5.14.25 Perform Aircraft Inspections TR: Applicable C-130 AMP Technical Orders										
5.14.25.1 Phase/periodic/ISO								-	-	-
5.14.25.2 Home Station Check (HSC)								-	-	-
5.14.25.3 Basic post-flight/preflight/ thruflight								-	-	-
5.14.26 Apply Power TR: Applicable C-130 AMP Technical Orders										
5.14.26.1 APU								-	-	-
5.14.26.2 Generator/Powered AGE								-	-	-
5.15 COMMUNICATION SYSTEMS (C-130 AMP)										
5.15.1 Digital Intercom System TR: Applicable C-130 AMP Technical Orders										
5.15.1.1 Theory of Operation								-	-	-
5.15.1.2 Perform operational check	*							-	-	-
5.15.1.3 Perform Static Discharge Inspection								-	-	-
5.15.1.4 Remove and install Static Discharger								-	-	-
5.15.1.5 Isolate Malfunctions	*							-	-	-
5.15.1.6 Perform Advanced Troubleshooting		*						-	-	-
5.15.2 Public Address System TR: Applicable C-130 AMP Technical Orders										
5.15.2.1 Theory of Operation								-	-	-
5.15.2.2 Perform operational check	*							-	-	-
5.15.2.3 Remove and install Flight Deck Speaker								-	-	-
5.15.2.4 Remove and install Cargo Speaker								-	-	-
5.15.2.5 Isolate Malfunctions	*							-	-	-
5.15.2.6 Perform Advanced Troubleshooting		*						-	-	-
5.15.3 High Frequency (HF) Radio (AN / ARC-190) TR: Applicable C-130 AMP Technical Orders										
5.15.3.1 Theory of Operation								-	-	-
5.15.3.2 Perform operational check	*							-	-	-
5.15.3.3 Remove and install Coupler	*							-	-	-
5.15.3.4 Remove and install Antenna								-	-	-
5.15.3.5 Isolate Malfunctions	*							-	-	-
5.15.3.6 Perform Advanced Troubleshooting		*						-	-	-
5.15.4 Automatic Communication System										
5.15.4.1 Theory of Operation								-	-	-
5.15.4.2 Perform Operational Check								-	-	-
5.15.4.3 Isolate Malfunctions								-	-	-
5.15.4.4 Perform Advanced Troubleshooting								-	-	-
5.15.5 Dual Band Ultra High Frequency (UHF)										

**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
and Very High Frequency (VHF) Radio (AN / ARC-210) TR: Applicable C-130 Technical Orders										
5.15.5.1 Theory of Operation								-	-	-
5.15.5.2 Perform operational check	*							-	-	-
5.15.5.3 Perform Operational Check of Anti-Jam								-	-	-
5.15.5.4 Isolate Malfunctions	*							-	-	-
5.15.5.5 Perform Advanced Troubleshooting		*						-	-	-
5.15.6 Very High Frequency Data Link System (VDL) VDL-2000										
5.15.6.1 Theory of Operation								-	-	-
5.15.6.2 Perform Operational Check								-	-	-
5.15.6.3 Isolate Malfunctions								-	-	-
5.15.6.4 Perform Advanced Troubleshooting								-	-	-
5.15.7 International Maritime Satellite System (INMARSAT)										
5.15.7.1 Theory of Operation								-	-	-
5.15.7.2 Perform operational check								-	-	-
5.15.7.3 Isolate Malfunctions								-	-	-
5.15.7.4 Perform Advanced Troubleshooting								-	-	-
5.15.8 Integrated Cockpit Voice Data Recorder TR: Applicable C-130 AMP Technical Orders										
5.15.8.1 Theory of Operation								-	-	-
5.15.8.2 Perform operational check of Voice Recorder	*							-	-	-
5.15.8.3 Isolate Malfunctions	*							-	-	-
5.15.8.4 Perform Advanced Troubleshooting		*						-	-	-
5.15.9 Emergency Locator Transmitter (ELT)										
5.15.9.1 Theory of Operation								-	-	-
5.15.9.2 Perform operational check	*							-	-	-
5.15.9.3 Remove and install ELT	*							-	-	-
5.15.9.4 Isolate Malfunctions	*							-	-	-
5.15.9.5 Perform Advanced Troubleshooting		*						-	-	-
5.15.10 Underwater Locator / Underwater Acoustical Beacon TR: Applicable C-130 AMP Technical Orders										
5.15.10.1 Theory of Operation								-	-	-
5.15.10.2 Perform operational check	*							-	-	-
5.15.10.3 Remove and install Battery	*							-	-	-
5.15.10.4 Isolate Malfunctions								-	-	-
5.15.11 Cryptographic Devices TR: Applicable C-130 AMP Technical Orders										
5.15.11.1 Use	*							-	-	-
5.15.11.2 Load	*							-	-	-

**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
5.15.12 Wideband Secure Voice TR: Applicable C-130 AMP Technical Orders										
5.15.12.1 Theory of Operation								-	-	-
5.15.12.2 Perform operational check								-	-	-
5.15.12.3 Isolate Malfunctions								-	-	-
5.15.12.4 Perform Advanced Troubleshooting								-	-	-
5.15.13 Narrowband Secure Voice TR: Applicable C-130 AMP Technical Orders										
5.15.13.1 Theory of Operation								-	-	-
5.15.13.2 Perform operational check								-	-	-
5.15.13.3 Isolate Malfunctions								-	-	-
5.15.13.4 Perform Advanced Troubleshooting								-	-	-
5.16 NAVIGATION SYSTEM (C-130 AMP)										
5.16.1 Identification Friend Or Foe (IFF) Transponders TR: Applicable C-130 AMP Technical Orders										
5.16.1.1 Theory of Operation								-	-	-
5.16.1.2 Perform Operational Check										
5.16.1.2.1 Mode 1, Mode 2, Mode 3A, Mode C	*							-	-	-
5.16.1.2.2 Mode 4	*							-	-	-
5.16.1.2.3 Mode 5								-	-	-
5.16.1.2.4 Mode S	*							-	-	-
5.16.1.2.5 Isolate Malfunctions	*							-	-	-
5.16.1.2.6 Perform Advanced Troubleshooting		*						-	-	-
5.16.2 Enhanced Traffic Collision Avoidance System (ETCAS) TR: Applicable C-130 AMP Technical Orders										
5.16.2.1 Theory of Operation								-	-	-
5.16.2.2 Perform Operational Check	*							-	-	-
5.16.2.3 Isolate Malfunctions	*							-	-	-
5.16.2.4 Perform Advanced Troubleshooting		*						-	-	-
5.16.2.5 Terrain Awareness Warning System (TAWS)										
5.16.2.5.1 Theory of Operation								-	-	-
5.16.2.5.2 Perform Operational Check								-	-	-
5.16.2.5.3 Isolate Malfunctions								-	-	-
5.16.2.5.4 Perform Advanced Troubleshooting								-	-	-
5.16.3 Multi-Mode Receiver TR: Applicable C-130 AMP Technical Orders										
5.16.3.1 Theory of Operation								-	-	-
5.16.3.2 Perform Operational Check	*							-	-	-
5.16.3.3 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
5.16.3.4 Perform Advanced Troubleshooting		*						-	-	-
5.16.4 Tactical Air Navigation (TACAN) TR: Applicable CI-130J Technical Orders										
5.16.4.1 Theory of Operation								-	-	-
5.16.4.2 Perform operational check	*							-	-	-
5.16.4.3 Isolate Malfunctions	*							-	-	-
5.16.4.4 Perform Advanced Troubleshooting		*						-	-	-
5.16.4.5 Flight Management/ Inertial Navigation System FMS/INS										
5.16.4.5.1 Theory of Operation								-	-	-
5.16.4.5.2 Perform Operational Check of Flight Management System								-	-	-
5.16.4.5.3 Perform Operational Check of Inertial Navigation System	*							-	-	-
5.16.4.5.4 Perform Operational Check of Global Positioning System	*							-	-	-
5.16.4.5.5 Isolate Malfunctions	*							-	-	-
5.16.4.5.6 Perform Advanced Troubleshooting		*						-	-	-
5.16.4.6 Cockpit Printer										
5.16.4.6.1 Theory of Operation								-	-	-
5.16.4.6.2 Operate Printer								-	-	-
5.16.4.6.3 Perform Operational Check								-	-	-
5.16.4.6.4 Isolate Malfunctions								-	-	-
5.16.4.6.5 Perform Advanced Troubleshooting								-	-	-
5.16.4.7 Aircraft Interface Unit										
5.16.4.7.1 Theory of Operation								-	-	-
5.16.4.7.2 Perform Operational Check	*							-	-	-
5.16.4.7.3 Isolate Malfunctions	*							-	-	-
5.16.4.7.4 Perform Advanced Troubleshooting		*						-	-	-
5.16.4.8 Data Transfer Device										
5.16.4.8.1 Theory of Operation								-	-	-
5.16.4.8.2 Perform Operational Check								-	-	-
5.16.4.8.3 Isolate Malfunctions								-	-	-
5.16.4.8.4 Perform Advanced Troubleshooting								-	-	-
5.16.5 Automatic Direction Finder (ADF) TR: Applicable C-130 AMP Technical Orders										
5.16.5.1 Theory of Operation								-	-	-
5.16.5.2 Perform operational check	*							-	-	-
5.16.5.3 Isolate Malfunctions	*							-	-	-
5.16.5.4 Perform Advanced Troubleshooting		*						-	-	-
5.16.6 UHF / VHF Direction Finder (DF) (DF-301) TR: Applicable C-130 AMP Technical Orders										
5.16.6.1 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
5.16.6.2 Perform operational check								-	-	-
5.16.6.3 Isolate Malfunctions								-	-	-
5.16.6.4 Perform Advanced Troubleshooting								-	-	-
5.16.7 Station Keeping Equipment TR: Applicable C-130 AMP Technical Orders										
5.16.7.1 Theory of Operation								-	-	-
5.16.7.2 Perform operational check								-	-	-
5.16.7.3 Isolate Malfunctions								-	-	-
5.16.7.4 Perform Advanced Troubleshooting								-	-	-
5.16.8 Low Power Color Radar (AN / APN-241)										
5.16.8.1 Theory of Operation								-	-	-
5.16.8.2 Perform operational check	*							-	-	-
5.16.8.3 Remove and install Receiver Transmitter Processor (RTP)	*							-	-	-
5.16.8.4 Remove and install Environmental Unit	*							-	-	-
5.16.8.5 Remove and install Antenna		*						-	-	-
5.16.8.6 Remove and install Line Replaceable Modules (LRM)	*							-	-	-
5.16.8.7 Isolate Malfunctions	*							-	-	-
5.16.8.8 Perform Advanced Troubleshooting		*						-	-	-
5.16.9 Cursor Control Device TR: Applicable C-130 AMP technical orders										
5.16.9.1 Theory of Operation								-	-	-
5.16.9.2 Perform operational check	*							-	-	-
5.16.9.3 Isolate Malfunctions	*							-	-	-
5.16.9.4 Perform Advanced Troubleshooting		*						-	-	-
5.16.10 Heads Up Display										
5.16.10.1 Theory of Operation								-	-	-
5.16.10.2 Perform operational check								-	-	-
5.16.10.3 Isolate Malfunctions								-	-	-
5.16.10.4 Perform Advanced Troubleshooting								-	-	-
5.17 MULTI-FUNCTION DISPLAY SYSTEMS (C-130 AMP)										
5.17.1 Theory of Operation								-	-	-
5.17.2 Perform operational check	*							-	-	-
5.17.3 Isolate Malfunctions	*							-	-	-
5.17.4 Perform Advanced Troubleshooting		*						-	-	-
5.18 Communication / Navigation Control Panel System TR: Applicable C-130 AMP Technical Orders										
5.18.1 Theory of Operation								-	-	-
5.18.2 Perform operational checks	*							-	-	-
5.18.3 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
5.18.4 Perform Advanced Troubleshooting		*						-	-	-
5.19 Multi-Purpose Control Display Unit TR: Applicable C-130 AMP Technical Orders										
5.19.1 Theory of Operation								-	-	-
5.19.2 Perform operational checks	*							-	-	-
5.19.3 Isolate Malfunctions	*							-	-	-
5.19.4 Perform Advanced Troubleshooting		*						-	-	-
5.20 Digital Mapping System TR: Applicable C-130 AMP Technical Orders										
5.20.1 Theory of Operation								-	-	-
5.20.2 Perform operational check								-	-	-
5.20.3 Isolate Malfunctions								-	-	-
5.20.4 Perform Advanced Troubleshooting								-	-	-
5.20.5 Caution and Warning Advisory System										
5.20.5.1 Theory of Operation								-	-	-
5.20.5.2 Operate System	*							-	-	-
5.20.6 Combined Altitude Radar Altimeter										
5.20.6.1 Theory of Operation								-	-	-
5.20.6.2 Perform operational checks	*							-	-	-
5.20.6.3 Isolate Malfunctions	*							-	-	-
5.20.6.4 Remove/Install Signal Data Converter	*							-	-	-
5.20.6.5 Adjustment of Receiver/Transmitter	*							-	-	-
5.20.6.6 Perform Advanced Troubleshooting		*						-	-	-
5.20.7 Mission Processor										
5.20.7.1 Theory of Operation								-	-	-
5.20.7.2 Remove/Install Line Replaceable Module								-	-	-
5.20.7.3 Perform operational check	*							-	-	-
5.20.7.4 Isolate Malfunctions	*							-	-	-
5.20.7.5 Perform Advanced Troubleshooting		*						-	-	-
5.20.8 System Mass Memory										
5.20.8.1 Theory of Operation								-	-	-
5.20.8.2 Perform operational checks								-	-	-
5.20.8.3 Isolate Malfunctions								-	-	-
5.20.8.4 Perform Advanced Troubleshooting								-	-	-
5.20.8.5 Remove/Install Disk Cartridge								-	-	-

C-40, C-39, C-37, C-27 and C-21 TRAINING REQUIREMENTS										
1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
<b>Attachment 6 C-21, C-27, C-37, C-39 and C-40 Training Requirements</b>										
NOTE 1: The apprentice course, J3ABR2A8X1XXXXX, MAF Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.										
NOTE 2: All course requirements are trained in the 3-level resident course during wartime.										
NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.										
NOTE 4: Items marked in Column 4A with both a proficiency code and a dash will be taught if equipment is available (Ex: 2b/-).										
NOTE 5: Items coded in Column 2A or 2B of the General Attachment are core tasks. If the STS line item identified with an "*" does not apply to a procedure, aircraft MDS, or equipment at a given base, the completion of the core task in the General Attachment is waived.										
NOTE 6: Address comments or recommend changes through the MAJCOM Functional Manager to the AETC Training Manager at DSN 736-7908										
6.1 GENERAL ORGANIZATIONAL MAINTENANCE (C-40C)										
6.1.1 Aircraft Familiarization										
6.1.1.1 Aircraft safe for maintenance *										
6.1.1.2 Select/use safetying devices										
6.1.1.3 Major structural areas										
6.1.1.4 Major systems										
6.1.1.5 Aircraft egress procedures *										
6.2 GENERAL MAINTENANCE TASKS (C-40C)										
6.2.1 Technical order familiarization										
6.2.2 Flightline safety/precautions/security										
6.2.3 Introduction to aircraft/airframe familiarization										
6.2.4 Inspect/operate portable external electrical power unit										
6.2.5 Inspect/use ground maintenance stands										
6.2.6 Dropped object prevention program (DOPP)										
6.2.7 Defensive systems (DS) familiarization on applicable aircraft										
6.2.8 Statically ground aircraft										
6.2.9 Perform aircraft wash										
6.2.10 Operate Portable Maintenance Aide (PMA) *										
6.2.11 Jack Aircraft										
6.2.11.1 Jacking supervisor										
6.2.11.2 Jacking team member										
6.2.11.3 Perform refuel/defuel team member duties										
6.2.11.4 Open and close engine cowling										
6.2.11.5 Remove and install aircraft maintenance access panels										
6.2.11.6 Perform aircraft marshalling procedures										
6.2.12 Tow Aircraft										

C-40, C-39, C-37, C-27 and C-21 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
6.2.12.1 Wing/tail walker duties										
6.2.12.2 Brake operator										
6.2.12.3 Operate cargo doors										
6.2.12.4 Deactivate cargo doors										
6.2.12.5 Open/close radomes	*									
6.2.12.6 Recover/Launch aircraft										
6.2.13 Perform Aircraft Inspections										
6.2.13.1 Phase/periodic/ISO										
6.2.13.2 Home Station Check (HSC)										
6.2.13.3 Basic post-flight/preflight/thruflight										
6.2.14 Apply Power to Aircraft										
6.2.14.1 Generator/Powered AGE	*									
6.3 COMMUNICATION SYSTEMS TR: C-40 AMM, Chapter 23										
6.3.1 High Frequency Communication (HF Comm)										
6.3.1.1 Theory of Operation								-	-	-
6.3.1.2 Perform Operational Check	*							-	-	-
6.3.1.3 Remove and Replace Antenna/Components		*						-	-	-
6.3.1.4 Isolate Malfunctions	*							-	-	-
6.3.1.5 Perform Advanced Troubleshooting		*						-	-	-
6.3.2 Very High Frequency Communication (VHF Comm)										
6.3.2.1 Theory of Operation								-	-	-
6.3.2.2 Perform Operational Check	*							-	-	-
6.3.2.3 Isolate Malfunctions	*							-	-	-
6.3.2.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.3 Ultra High Frequency Communication (UHF Comm)										
6.3.3.1 Theory of Operation								-	-	-
6.3.3.2 Perform Operational Check	*							-	-	-
6.3.3.3 Isolate Malfunctions	*							-	-	-
6.3.3.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.4 Passenger Entertainment System										
6.3.4.1 Theory of Operation								-	-	-
6.3.4.2 Perform Operational Check	*							-	-	-
6.3.4.3 Isolate Malfunctions	*							-	-	-
6.3.4.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.5 Satellite Communication (SATCOM)										
6.3.5.1 Theory of Operation								-	-	-
6.3.5.2 Perform Operational Check	*							-	-	-
6.3.5.3 Isolate Malfunctions	*							-	-	-
6.3.5.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.6 Iridium/ Public Telephone System										
6.3.6.1 Theory of Operation								-	-	-

C-40, C-39, C-37, C-27 and C-21 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
6.3.6.2 Perform Operational Check	*							-	-	-
6.3.6.3 Isolate Malfunctions	*							-	-	-
6.3.6.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.7 Aircraft Communications Addressing and Reporting System (ACARS)										
6.3.7.1 Theory of Operation								-	-	-
6.3.7.2 Perform Operational Check	*							-	-	-
6.3.7.3 Isolate Malfunctions	*							-	-	-
6.3.7.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.8 Selective Calling System (SELCAL)										
6.3.9.1 Theory of Operation								-	-	-
6.3.9.2 Perform Operational Check	*							-	-	-
6.3.9.3 Isolate Malfunctions	*							-	-	-
6.3.9.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.9 Passenger Address System										
6.3.9.1 Theory of Operation								-	-	-
6.3.9.2 Perform Operational Check	*							-	-	-
6.3.9.3 Isolate Malfunctions	*							-	-	-
6.3.9.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.10 Service Interphone System										
6.3.10.1 Theory of Operation								-	-	-
6.3.10.2 Perform Operational Check	*							-	-	-
6.3.10.3 Isolate Malfunctions	*							-	-	-
6.3.10.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.11 Flight Crew Call/ Cabin Interphone System										
6.3.11.1 Theory of Operation								-	-	-
6.3.11.2 Perform Operational Check	*							-	-	-
6.3.11.3 Isolate Malfunctions	*							-	-	-
6.3.11.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.12 Ground Crew Call System										
6.3.12.1 Theory of Operation								-	-	-
6.3.12.2 Perform Operational Check	*							-	-	-
6.3.12.3 Isolate Malfunctions	*							-	-	-
6.3.12.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.13 Flight Interphone System										
6.3.13.1 Theory of Operation								-	-	-
6.3.13.2 Perform Operational Check	*							-	-	-
6.3.13.3 Isolate Malfunctions	*							-	-	-
6.3.13.4 Perform Advanced Troubleshooting		*						-	-	-
6.3.14 Static Discharging										
6.3.14.1 Theory of Operation								-	-	-
6.3.14.2 Perform Operational Check	*							-	-	-
6.3.14.3 Isolate Malfunctions	*							-	-	-
6.3.14.4 Perform Advanced Troubleshooting		*						-	-	-

C-40, C-39, C-37, C-27 and C-21 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
6.3.15 Cockpit Voice Recorder (CVR)										
6.3.15.1 Theory of Operation								-	-	-
6.3.15.2 Perform Operational Check	*							-	-	-
6.3.15.3 Isolate Malfunctions	*							-	-	-
6.3.15.4 Perform Advanced Troubleshooting		*						-	-	-
6.4 INDICATING AND RECORDING SYSTEMS TR: C-40C AMM/ Chapter 31										
6.4.1 Printing System										
6.4.1.1 Theory of Operation								-	-	-
6.4.1.2 Perform Operational Check	*							-	-	-
6.4.1.3 Isolate Malfunctions	*							-	-	-
6.4.1.4 Perform Advanced Troubleshooting		*						-	-	-
6.4.2 Aural Warning System										
6.4.2.1 Theory of Operation								-	-	-
6.4.2.2 Perform Operational Check	*							-	-	-
6.4.2.3 Isolate Malfunctions	*							-	-	-
6.4.2.4 Perform Advanced Troubleshooting		*						-	-	-
6.5 NAVIGATION SYSTEMS TR: C-40 AMM/ Chapter 34										
6.5.1 Air Data/ Inertial Reference System (ADIRS)										
6.5.1.1 Theory of Operation								-	-	-
6.5.1.2 Perform Operational Check	*							-	-	-
6.5.1.3 Isolate Malfunctions	*							-	-	-
6.5.1.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.2 Radio Magnetic Indicator (RMI)								-	-	-
6.5.2.1 Theory of Operation								-	-	-
6.5.2.2 Perform Operational Check	*							-	-	-
6.5.2.3 Isolate Malfunctions	*							-	-	-
6.5.2.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.3 Instrument Landing System (ILS)										
6.5.3.1 Theory of Operation								-	-	-
6.5.3.2 Perform Operational Check	*							-	-	-
6.5.3.3 Isolate Malfunctions	*							-	-	-
6.5.3.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.4 Marker Beacon System										
6.5.4.1 Theory of Operation								-	-	-
6.5.4.2 Perform Operational Check	*							-	-	-
6.5.4.3 Isolate Malfunctions	*							-	-	-
6.5.4.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.5 Radio Altimeter System										
6.5.5.1 Theory of Operation								-	-	-
6.5.5.2 Perform Operational Check	*							-	-	-
6.5.5.3 Isolate Malfunctions	*							-	-	-
6.5.5.4 Perform Advanced Troubleshooting		*						-	-	-

C-40, C-39, C-37, C-27 and C-21 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
6.5.6 Weather Radar System										
6.5.6.1 Theory of Operation								-	-	-
6.5.6.2 Perform Operational Check	*							-	-	-
6.5.6.3 Isolate Malfunctions	*							-	-	-
6.5.6.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.7 Traffic Alert and Collision Avoidance (TCAS)										
6.5.7.1 Theory of Operation								-	-	-
6.5.7.2 Perform Operational Check	*							-	-	-
6.5.7.3 Isolate Malfunctions	*							-	-	-
6.5.7.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.8 Visual Omnidirectional System (VOR)										
6.5.8.1 Theory of Operation								-	-	-
6.5.8.2 Perform Operational Check	*							-	-	-
6.5.8.3 Isolate Malfunctions	*							-	-	-
6.5.8.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.9 Identification Friend or Foes System (IFF)										
6.5.9.1 Theory of Operation								-	-	-
6.5.9.2 Perform Operational Check	*							-	-	-
6.5.9.3 Isolate Malfunctions	*							-	-	-
6.5.9.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.10 Air Traffic Control System (ATC)										
6.5.10.1 Theory of Operation								-	-	-
6.5.10.2 Perform Operational Check	*							-	-	-
6.5.10.3 Isolate Malfunctions	*							-	-	-
6.5.10.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.11 Tactical Air Navigation System (TACAN)										
6.5.11.1 Theory of Operation								-	-	-
6.5.11.2 Perform Operational Check	*							-	-	-
6.5.11.3 Isolate Malfunctions	*							-	-	-
6.5.11.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.12 Distance Measuring System (DME)										
6.5.12.1 Theory of Operation								-	-	-
6.5.12.2 Perform Operational Check	*							-	-	-
6.5.12.3 Isolate Malfunctions	*							-	-	-
6.5.12.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.13 Automatic Direction Finding (ADF)										
6.5.13.1 Theory of Operation								-	-	-
6.5.13.2 Perform Operational Check	*							-	-	-
6.5.13.3 Isolate Malfunctions	*							-	-	-
6.5.13.4 Perform Advanced Troubleshooting		*						-	-	-
6.5.14 Global Positioning System (GPS)										
6.5.14.1 Theory of Operation								-	-	-
6.5.14.2 Perform Operational Check	*							-	-	-
6.5.14.3 Isolate Malfunctions	*							-	-	-

C-40, C-39, C-37, C-27 and C-21 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	
6.5.14.4 Perform Advanced Troubleshooting		*							-	-	-
6.6 GENERAL ORGANIZATIONAL MAINTENANCE (C-27J) TR: Applicable C-27J Technical Orders											
6.6.1 Aircraft Familiarization											
6.6.1.1 Aircraft safe for maintenance	*								-	-	-
6.6.1.2 Select/use safetying devices									-	-	-
6.6.1.3 Major structural areas									-	-	-
6.6.1.4 Major systems									-	-	-
6.6.1.5 Aircraft egress procedures									-	-	-
6.7 GENERAL MAINTENANCE TASKS (C-27J) TR: Applicable C-27J Technical Orders											
6.7.1 Technical order familiarization									-	-	-
6.7.2 Flightline safety/precautions/ security									-	-	-
6.7.3 Introduction to aircraft/airframe familiarization									-	-	-
6.7.4 Inspect/operate portable external electrical power unit									-	-	-
6.7.5 Inspect/use ground maintenance stands									-	-	-
6.7.6 Dropped object prevention program (DOPP)									-	-	-
6.7.7 Defensive systems (DS) familiarization on applicable aircraft									-	-	-
6.7.8 Statically ground aircraft									-	-	-
6.7.9 Apply/disconnect external electrical power unit	*								-	-	-
6.7.10 Perform aircraft wash									-	-	-
6.7.11 Operate Portable Maintenance Aide (PMA) / DTADS	*								-	-	-
6.7.12 Jack Aircraft											
6.7.12.1 Jacking supervisor									-	-	-
6.7.12.2 Jacking team member									-	-	-
6.7.13 Perform refuel/defuel team member duties									-	-	-
6.7.14 Open and close engine cowling									-	-	-
6.7.15 Remove and install aircraft maintenance access panels									-	-	-
6.7.16 Perform aircraft marshalling procedures									-	-	-
6.7.17 Tow Aircraft TR: Applicable C-27J Technical Orders											
6.7.17.1 Wing/tail walker duties									-	-	-
6.7.17.2 Brake operator									-	-	-
6.7.18 Operate cargo doors									-	-	-
6.7.19 Deactivate cargo doors									-	-	-
6.7.20 Open/close radomes	*								-	-	-
6.7.21 Recover/Launch aircraft									-	-	-

C-40, C-39, C-37, C-27 and C-21 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
6.7.22 Perform Aircraft Inspections TR: Applicable C-27J Technical Orders										
6.7.22.1 Phase/periodic/ISO								-	-	-
6.7.22.2 Home Station Check (HSC)								-	-	-
6.7.22.3 Basic post-flight/preflight/ thruflight								-	-	-
6.7.23 Apply Power to Aircraft TR: Applicable C-27J Technical Orders										
6.7.23.1 APU								-	-	-
6.7.23.2 Generator/Powered AGE								-	-	-
6.8 COMMUNICATION SYSTEMS (C-27J) TR: Applicable C-27J Technical Orders										
6.8.1 Audio Integration System (Intercom) TR: Applicable C-27J Technical Orders										
6.8.1.1 Theory of Operation								-	-	-
6.8.1.2 Perform operational check	*							-	-	-
6.8.1.3 Remove and install Interphone Control Wheel Switch								-	-	-
6.8.1.4 Isolate Malfunctions	*							-	-	-
6.8.1.5 Perform Advanced Troubleshooting		*						-	-	-
6.8.2 Public Address System (APCO-25) TR: Applicable C-27J Technical Orders										
6.8.2.1 Theory of Operation								-	-	-
6.8.2.2 Perform operational check	*							-	-	-
6.8.2.3 Remove and install Flight Deck Speaker								-	-	-
6.8.2.4 Remove and install Cargo Speaker								-	-	-
6.8.2.5 Isolate Malfunctions	*							-	-	-
6.8.2.6 Perform Advanced Troubleshooting		*						-	-	-
6.8.3 High Frequency (HF) Radio (AN / ARC-190) (HF-9500) TR: Applicable C-27J Technical Orders										
6.8.3.1 Theory of Operation								-	-	-
6.8.3.2 Perform operational check	*							-	-	-
6.8.3.3 Remove and install Coupler								-	-	-
6.8.3.4 Remove and install Antenna								-	-	-
6.8.3.5 Isolate Malfunctions	*							-	-	-
6.8.3.6 Perform Advanced Troubleshooting		*						-	-	-
6.8.3.7 Intermediate Maintenance										
6.8.3.7.1 Perform minimum performance checks								-	-	-
6.8.3.7.2 Perform system alignments								-	-	-
6.8.4 Very High Frequency (VHF) AM / FM Radio (AN / ARC-222) TR: Applicable C-130 Technical Orders										
6.8.4.1 Theory of Operation								-	-	-
6.8.4.2 Perform operational check	*							-	-	-
6.8.4.3 Isolate Malfunctions	*							-	-	-
6.8.4.4 Perform Advanced Troubleshooting		*						-	-	-

C-40, C-39, C-37, C-27 and C-21 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
6.8.4.5 Intermediate Maintenance										
6.8.4.5.1 Perform minimum performance checks								-	-	-
6.8.4.5.2 Perform system alignments								-	-	-
6.8.5 Ultra High Frequency (UHF) Radio System (AN / ARC-164) TR: Applicable C-27J Technical Orders										
6.8.5.1 Theory of Operation								-	-	-
6.8.5.2 Perform operational check	*							-	-	-
6.8.5.3 Isolate Malfunctions	*							-	-	-
6.8.5.4 Perform Advanced Troubleshooting		*						-	-	-
6.8.5.5 Intermediate Maintenance										
6.8.5.5.1 Perform minimum performance checks								-	-	-
6.8.5.5.2 Perform system alignment								-	-	-
6.8.6 VHF / UHF Get Home Control Panel System TR: Applicable C-27J Technical Orders										
6.8.6.1 Theory of Operation								-	-	-
6.8.6.2 Perform operational check	*							-	-	-
6.8.6.3 Isolate Malfunctions	*							-	-	-
6.8.6.4 Perform Advanced Troubleshooting		*						-	-	-
6.8.7 UHF Satellite Terminal System (USTS)										
6.8.7.1 Theory of Operation								-	-	-
6.8.7.2 Perform operational check	*							-	-	-
6.8.7.3 Isolate Malfunctions	*							-	-	-
6.8.7.4 Perform Advanced Troubleshooting		*						-	-	-
6.8.8 INMARSAT Satcom (MCS-4200)										
6.8.8.1 Theory of Operation								-	-	-
6.8.8.2 Perform operational check	*							-	-	-
6.8.8.3 Isolate Malfunctions	*							-	-	-
6.8.8.4 Perform Advanced Troubleshooting		*						-	-	-
6.8.9 Cockpit Voice Recorder TR: Applicable C-27J Technical Orders										
6.8.9.1 Theory of Operation								-	-	-
6.8.9.2 Perform operational check	*							-	-	-
6.8.9.3 Isolate Malfunctions	*							-	-	-
6.8.9.4 Perform Advanced Troubleshooting		*						-	-	-
6.8.10 Emergency Locator Transmitter (ELT)										
6.8.10.1 Theory of Operation								-	-	-
6.8.10.2 Perform operational check	*							-	-	-
6.8.10.3 Remove and install ELT								-	-	-
6.8.10.4 Isolate Malfunctions	*							-	-	-
6.8.10.5 Perform Advanced Troubleshooting		*						-	-	-
6.8.11 Underwater Locator / Underwater Acoustical Beacon TR: Applicable C-27J Technical Orders										
6.8.11.1 Theory of Operation								-	-	-

C-40, C-39, C-37, C-27 and C-21 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
6.8.11.2 Perform operational check	*							-	-	-
6.8.11.3 Remove and install Battery								-	-	-
6.8.11.4 Isolate Malfunctions	*							-	-	-
6.8.11.5 Perform Advanced Troubleshooting		*						-	-	-
6.8.12 Cryptographic Devices TR: Applicable C-27J Technical Orders										
6.8.12.1 Inspect								-	-	-
6.8.12.2 Use	*							-	-	-
6.8.12.3 Load	*							-	-	-
6.8.12.4 Operate Fill Panel / Master Zeroize Panel								-	-	-
6.8.13 Wideband Secure Voice (KY-58) TR: Applicable C-27J Technical Orders										
6.8.13.1 Theory of Operation								-	-	-
6.8.13.2 Perform operational check	*							-	-	-
6.8.13.3 Isolate Malfunctions	*							-	-	-
6.8.13.4 Perform Advanced Troubleshooting		*						-	-	-
6.8.13.5 Intermediate Maintenance										
6.8.13.5.1 Perform minimum performance checks								-	-	-
6.8.13.5.2 Perform system alignment								-	-	-
6.8.14 Narrowband Secure Voice (ANDVT) TR: Applicable C-27J Technical Orders										
6.8.14.1 Theory of Operation								-	-	-
6.8.14.2 Perform operational check	*							-	-	-
6.8.14.3 Isolate Malfunctions	*							-	-	-
6.8.14.4 Perform Advanced Troubleshooting		*						-	-	-
6.8.15 Multipurpose Communications (AN / ARC-210) TR: Applicable C-27J Technical Orders										
6.8.15.1 Theory of Operation								-	-	-
6.8.15.2 Perform Operational Check										
6.8.15.2.1 Normal	*							-	-	-
6.8.15.2.2 Have Quick / SINCGARS	*							-	-	-
6.8.15.2.3 Secure (TSEC/KY-58)								-	-	-
6.8.15.2.4 SATCOM (DAMA)								-	-	-
6.8.15.3 Isolate Malfunctions	*							-	-	-
6.8.15.4 Perform Advanced Troubleshooting		*						-	-	-
6.9 NAVIGATION SYSTEM (C-27J) TR: Applicable C-27J Technical Orders										
6.9.1 Identification Friend Or Foe (IFF) Transponders (AN / APX-119) TR: Applicable C-27J Technical Orders										
6.9.1.1 Theory of Operation								-	-	-
6.9.1.2 Perform Operational Check										
6.9.1.2.1 Mode 1, Mode 2, Mode 3A, Mode C	*							-	-	-

C-40, C-39, C-37, C-27 and C-21 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	
6.9.1.2.2 Mode 4	*								-	-	-
6.9.1.2.3 Mode S									-	-	-
6.9.1.3 Isolate Malfunctions	*								-	-	-
6.9.1.4 Perform Advanced Troubleshooting		*							-	-	-
6.9.1.5 Intermediate Maintenance TR: Applicable technical data											
6.9.1.5.1 Perform system alignments									-	-	-
6.9.1.5.2 Perform minimum performance checks									-	-	-
6.9.2 Enhanced Traffic Collision Avoidance System (ETCAS) (AN / APN-244) TR: Applicable C-27J Technical Orders											
6.9.2.1 Theory of Operation									-	-	-
6.9.2.2 Perform operational check	*								-	-	-
6.9.2.3 Remove and install Processor Mount									-	-	-
6.9.2.4 Isolate Malfunctions	*								-	-	-
6.9.2.5 Perform Advanced Troubleshooting		*							-	-	-
6.9.3 VHF Navigation System (VOR/ILS/MB) (AN / ARN-147) TR: Applicable C-27J Technical Orders											
6.9.3.1 Theory of Operation									-	-	-
6.9.3.2 Perform operational check	*								-	-	-
6.9.3.3 Remove and install Antenna									-	-	-
6.9.3.4 Isolate Malfunctions	*								-	-	-
6.9.3.5 Perform Advanced Troubleshooting		*							-	-	-
6.9.3.6 Intermediate Maintenance											
6.9.3.6.1 Perform minimum performance checks									-	-	-
6.9.3.6.2 Perform system alignments									-	-	-
6.9.4 Tactical Air Navigation (TACAN) (AN / ARN-153) TR: Applicable C-130J Technical Orders											
6.9.4.1 Theory of Operation									-	-	-
6.9.4.2 Perform operational check	*								-	-	-
6.9.4.3 Isolate Malfunctions	*								-	-	-
6.9.4.4 Perform Advanced Troubleshooting		*							-	-	-
6.9.5 Embedded GPS / INS System (EGI) TR: Applicable C-27J Technical Orders											
6.9.5.1 Theory of Operation									-	-	-
6.9.5.2 Perform operational check	*								-	-	-
6.9.5.3 Remove and install Antenna Controller									-	-	-
6.9.5.4 Remove and install Antenna									-	-	-
6.9.5.5 Isolate Malfunctions	*								-	-	-
6.9.5.6 Perform Advanced Troubleshooting		*							-	-	-
6.9.6 Automatic Direction Finder (ADF) (DF-206A) TR: Applicable C-27J Technical Orders											
6.9.6.1 Theory of Operation									-	-	-

C-40, C-39, C-37, C-27 and C-21 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	
6.9.6.2 Perform operational check	*								-	-	-
6.9.6.3 Isolate Malfunctions	*								-	-	-
6.9.6.4 Perform Advanced Troubleshooting		*							-	-	-
6.9.6.5 Intermediate Maintenance TR: Applicable technical data											
6.9.6.5.1 Perform system alignments									-	-	-
6.9.6.5.2 Perform minimum performance checks									-	-	-
6.9.7 UHF / VHF Direction Finders (DF) (DF-301E) TR: Applicable C-27J Technical Orders											
6.9.7.1 Theory of Operation									-	-	-
6.9.7.2 Perform operational check	*								-	-	-
6.9.7.3 Remove and install Antenna									-	-	-
6.9.7.4 Isolate Malfunctions	*								-	-	-
6.9.7.5 Perform Advanced Troubleshooting		*							-	-	-
6.9.7.6 Intermediate Maintenance TR: Applicable technical data											
6.9.7.6.1 Perform minimum performance checks									-	-	-
6.9.7.6.2 Perform system alignments									-	-	-
6.9.8 Station Keeping Equipment (SKE-2000) TR: Applicable C-27J Technical Orders											
6.9.8.1 Theory of Operation									-	-	-
6.9.8.2 Perform operational check	*								-	-	-
6.9.8.3 Remove and install SKE Radome									-	-	-
6.9.8.4 Remove and install Omni Antenna									-	-	-
6.9.8.5 Remove and install Directional Antenna									-	-	-
6.9.8.6 Isolate Malfunctions	*								-	-	-
6.9.8.7 Perform Advanced Troubleshooting		*							-	-	-
6.9.9 Low Power Color Radar (AN / APN-241)											
6.9.9.1 Theory of Operation									-	-	-
6.9.9.2 Perform operational check	*								-	-	-
6.9.9.3 Remove and install Receiver Transmitter Processor (RTP)									-	-	-
6.9.9.4 Remove and install Mount/ Blower Assembly									-	-	-
6.9.9.5 Remove and install Antenna									-	-	-
6.9.9.6 Isolate Malfunctions	*								-	-	-
6.9.9.7 Perform Advanced Troubleshooting		*							-	-	-
6.9.10 Cursor Control Panel System TR: Applicable C-27J technical orders											
6.9.10.1 Theory of Operation									-	-	-
6.9.10.2 Perform operational check	*								-	-	-
6.9.10.3 Isolate Malfunctions	*								-	-	-
6.9.10.4 Perform Advanced Troubleshooting		*							-	-	-
6.9.11 Doppler Navigation System (AN / APN-218)											

C-40, C-39, C-37, C-27 and C-21 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-27J Technical Orders										
6.9.11.1 Theory of Operation								-	-	-
6.9.11.2 Perform operational check	*							-	-	-
6.9.11.3 Remove and install Doppler Velocity Sensor								-	-	-
6.9.11.4 Remove and install Dehydrator								-	-	-
6.9.11.5 Isolate Malfunctions	*							-	-	-
6.9.11.6 Perform Advanced Troubleshooting		*						-	-	-
6.9.12 Radar Altimeter (RADALT) (HG-9550)										
6.9.12.1 Theory of Operation								-	-	-
6.9.12.2 Perform operational check	*							-	-	-
6.9.12.3 Isolate Malfunctions	*							-	-	-
6.9.12.4 Perform Advanced Troubleshooting		*						-	-	-
6.10 INTEGRATION and DISPLAY SYSTEMS (C-27J) TR: Applicable C-27J Technical Orders										
6.10.1 Communication / Navigation Breaker Panel System (CNBP) TR: Applicable C-27J Technical Orders										
6.10.1.1 Theory of Operation								-	-	-
6.10.1.2 Perform operational check	*							-	-	-
6.10.1.3 Isolate Malfunctions	*							-	-	-
6.10.1.4 Perform Advanced Troubleshooting		*						-	-	-
6.10.2 Data Bus System (1553B / ARINC 429)										
6.10.2.1 Theory of Operation								-	-	-
6.10.2.2 Perform operational check	*							-	-	-
6.10.2.3 Isolate Malfunctions	*							-	-	-
6.10.2.4 Perform Advanced Troubleshooting		*						-	-	-
6.10.3 Communication / Navigation Identification Management System (CNIMS) TR: Applicable C-27J Technical Orders										
6.10.3.1 Theory of Operation								-	-	-
6.10.3.2 Perform operational checks	*							-	-	-
6.10.3.4 Isolate Malfunctions	*							-	-	-
6.10.3.5 Perform Advanced Troubleshooting		*						-	-	-
6.10.3.6 Update/load/operate Software		*						-	-	-
6.10.4 Digital Mapping System TR: Applicable C-27J Technical Orders										
6.10.4.1 Theory of Operation								-	-	-
6.10.4.2 Perform operational check								-	-	-
6.10.4.3 Isolate Malfunctions								-	-	-
6.10.4.5 Perform Advanced Troubleshooting								-	-	-
6.10.5 Blue Force Tracker System (BFT)										
6.10.5.1 Theory of Operation								-	-	-
6.10.5.2 Perform operational check								-	-	-

C-40, C-39, C-37, C-27 and C-21 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	
6.10.5.3 Operate Electronic Data Manager									-	-	-
6.10.5.4 Operate Defense Advanced GPS (DAGR)									-	-	-
6.10.5.5 Isolate Malfunctions									-	-	-
6.10.5.6 Perform Advanced Troubleshooting									-	-	-
6.10.5.7 Update/load/operate Software									-	-	-
6.10.6 Combat Tracker II System											
6.10.6.1 Theory of Operation									-	-	-
6.10.6.2 Perform operational check									-	-	-
6.10.6.3 Isolate Malfunctions									-	-	-
6.10.6.4 Perform Advanced Troubleshooting									-	-	-
6.10.7 AFSC Integrated System TR: Applicable C-27J Technical Orders											
6.10.7.1 Dual Slotted Data Transfer System (DSDTS)											
6.10.7.1.1 Theory of Operation									-	-	-
6.10.7.1.2 Perform operational check	*								-	-	-
6.10.7.1.3 Operate DSDTS									-	-	-
6.10.7.1.4 Load DSDTS Software									-	-	-
6.10.7.1.5 Isolate Malfunctions	*								-	-	-
6.10.7.1.6 Perform Advanced Troubleshooting		*							-	-	-
6.10.7.2 Mission Computer System (MCS)											
6.10.7.2.1 Theory of Operation									-	-	-
6.10.7.2.2 Perform operational check	*								-	-	-
6.10.7.2.3 Isolate Malfunctions	*								-	-	-
6.10.7.2.4 Perform Advanced Troubleshooting		*							-	-	-
6.10.8 Flight Data Acquisition Systems TR: Applicable C-27J Technical Orders											
6.10.8.1 Dual Communication Management Unit System (CMUS) Mark III											
6.10.8.1.1 Theory of Operation									-	-	-
6.10.8.1.2 Perform operational check	*								-	-	-
6.10.8.1.3 Isolate Malfunctions	*								-	-	-
6.10.8.1.4 Perform Advanced Troubleshooting		*							-	-	-
6.11 REMOVE/INSTALL STANDARD MOUNT TR: Applicable C-27J Technical Orders											
6.11.1 Type 1	*								-	-	-
6.11.2 Type 2	*								-	-	-
6.11.3 Type 3	*								-	-	-
6.11.4 Type 4	*								-	-	-
6.11.5 Type 5	*								-	-	-

**KC-10 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 7 KC-10 Training Requirements**

NOTE 1: The apprentice course, J3ABR2A8X1XXXXX, MAF Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

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

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

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

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

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

<b>7.1 GENERAL ORGANIZATIONAL MAINTENANCE</b>										
7.1.1 Aircraft Familiarization										
7.1.1.1 Aircraft Safe for Maintenance	*							-	-	-
7.1.1.2 Static Grounding								-	-	-
7.1.1.3 Select/ Use Safetying Devices								-	-	-
7.1.1.4 Major Structural Areas								-	-	-
7.1.1.5 Operate Cargo Doors								-	-	-
7.1.1.6 Open/ Close Radomes	*							-	-	-
7.1.1.7 Aircraft Egress Procedures								-	-	-
7.1.1.8 Underfloor Entry Procedures										
7.1.1.8.1 Power-On								-	-	-
7.1.1.8.2 Power-Off								-	-	-
7.1.1.9 Launch/ Recover Aircraft								-	-	-
<b>7.2 GENERAL MAINTENANCE TASKS (KC-10)</b>										
7.2.1 Technical Order Familiarization								-	-	-
7.2.2 Flightline Safety/ Precautions/ Security								-	-	-
7.2.3 Introduction to Aircraft/ Airframe Familiarization								-	-	-
7.2.4 Inspect/ Operate Portable External Electrical Power Unit								-	-	-
7.2.5 Inspect/ Use Ground Maintenance Stands								-	-	-
7.2.6 Dropped Object Prevention Program (DOPP)								-	-	-
7.2.7 Statically Ground Aircraft								-	-	-
7.2.8 Jack Aircraft										
7.2.8.1 Jacking Team Member								-	-	-
7.2.9 Perform Refuel/ Defuel Team Member Duties								-	-	-
7.2.10 Open and Close Engine Cowling								-	-	-
7.2.11 Remove and Install Aircraft Maintenance Access Panels								-	-	-
7.2.12 Use Aircraft Interphone System								-	-	-
7.2.13 Perform Aircraft Marshaling Procedures										

**KC-10 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.2.14 Tow Aircraft TR: Applicable C-130 Technical Orders										
7.2.14.1 Wing/ Tail Walker Duties								-	-	-
7.2.14.2 Brake Operator								-	-	-
7.2.14.3 Team Communications								-	-	-
7.2.15 Perform Aircraft A1, A2, C Inspections								-	-	-
7.2.16 Apply Power										
7.2.16.1 APU								-	-	-
7.2.16.2 Generator Set	*							-	-	-
7.3 COMMUNICATION SYSTEMS (KC-10)										
7.3.1 Standard Audio Integrating System										
7.3.1.1 Theory of Operation								-	-	-
7.3.1.2 Perform Operational Check	*							-	-	-
7.3.1.3 Isolate Malfunctions	*							-	-	-
7.3.1.4 Perform Advanced Troubleshooting		*						-	-	-
7.3.2 Service Interphone										
7.3.2.1 Theory of Operation								-	-	-
7.3.2.2 Perform Operational Check	*							-	-	-
7.3.2.3 Isolate Malfunctions	*							-	-	-
7.3.2.4 Perform Advanced Troubleshooting		*						-	-	-
7.3.3 Refueling Boom Voice Channel System										
7.3.3.1 Theory of Operation								-	-	-
7.3.3.2 Perform Operational Check	*							-	-	-
7.3.3.3 Remove and Install Boom Voice Coil	*							-	-	-
7.3.3.4 Isolate Malfunctions	*							-	-	-
7.3.3.5 Perform Advanced Troubleshooting		*						-	-	-
7.3.4 Universal Air Refueling Receiver Slipway Interphone (UARRSI)										
7.3.4.1 Theory of Operation								-	-	-
7.3.4.2 Perform Operational Check	*							-	-	-
7.3.4.3 Remove and Install										
7.3.4.3.1 Voice Channel Amplifier	*							-	-	-
7.3.4.3.2 Voice Coil	*							-	-	-
7.3.4.4 Isolate Malfunctions	*							-	-	-
7.3.4.5 Perform Advanced Troubleshooting		*						-	-	-
7.3.5 Passenger Address (Collins 346D-2/ 2B)										
7.3.5.1 Theory of Operation								-	-	-
7.3.5.2 Perform Operational Checks	*							-	-	-
7.3.5.3 Isolate Malfunctions	*							-	-	-
7.3.5.4 Perform Advanced Troubleshooting		*						-	-	-
7.3.6 High Frequency (HF) Radio (AN/ ARC-190(V)) Automatic Communications Processor										
7.3.6.1 Theory of Operation								-	-	-
7.3.6.2 Perform Operational Check	*							-	-	-
7.3.6.3 Remove/ Install										

**KC-10 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.3.6.3.1 Antenna Adapter Bellows								-	-	-
7.3.6.3.2 Antenna								-	-	-
7.3.6.4 Update/ Operate Software Upload	*							-	-	-
7.3.6.5 Isolate Malfunctions	*							-	-	-
7.3.6.6 Perform Advanced Troubleshooting		*						-	-	-
7.3.7 Very High Frequency (VHF) AM Radio 618M-5A										
7.3.7.1 Theory of Operation								-	-	-
7.3.7.2 Perform Operational Check	*							-	-	-
7.3.7.3 Remove and Install UHF2/ VHF Antennas								-	-	-
7.3.7.4 Isolate Malfunctions	*							-	-	-
7.3.7.5 Perform Advanced Troubleshooting		*						-	-	-
7.3.8 Ultra High Frequency (UHF) Radio System AN/ ARC-164										
7.3.8.1.1 Theory of Operation								-	-	-
7.3.8.2 Perform Operational Check										
7.3.8.2.1 Normal	*							-	-	-
7.3.8.2.2 Have Quick	*							-	-	-
7.3.8.3 Isolate Malfunctions	*							-	-	-
7.3.8.4 Perform Advanced Troubleshooting		*						-	-	-
7.3.9 High Frequency (UHF) Radio System (AN/ ARC-171)										
7.3.9.1 Theory of Operation								-	-	-
7.3.9.2 Perform Operational Check	*							-	-	-
7.3.9.3 Isolate Malfunctions	*							-	-	-
7.3.9.4 Perform Advanced Troubleshooting		*						-	-	-
7.3.10 International Maritime Satellite System (INMARSAT-C)										
7.3.10.1 Theory of Operation								-	-	-
7.3.10.2 Perform Operational Check	*							-	-	-
7.3.10.3 Isolate Malfunctions	*							-	-	-
7.3.10.4 Perform Advanced Troubleshooting		*						-	-	-
7.3.10.2 Perform Operational Check	*							-	-	-
7.3.11 L-Band Aero-C SATCOM										
7.3.11.1 Theory of Operation								-	-	-
7.3.11.2 Perform Operational Check	*							-	-	-
7.3.11.3 Isolate Malfunctions	*							-	-	-
7.3.11.4 Perform Advanced Troubleshooting		*						-	-	-
7.3.12 Iridium Phone										
7.3.12.1 Theory of Operation								-	-	-
7.3.12.2 Perform Operational Check	*							-	-	-
7.3.12.3 Isolate Malfunctions	*							-	-	-
7.3.12.4 Perform Advanced Troubleshooting		*						-	-	-
7.3.13 Airborne Broadcast Intelligence/ Combat Track II (ABI/ CTII)										

**KC-10 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.3.13.1 Theory of Operation								-	-	-
7.3.13.2 Perform Operational Check								-	-	-
7.3.13.3 Isolate Malfunctions								-	-	-
7.3.13.4 Perform Advanced Troubleshooting								-	-	-
7.3.14 Static Discharging and Lightning Diverting/ Arrestors										
7.3.14.1 Theory of Operation								-	-	-
7.3.14.2 Perform Ohms Check								-	-	-
7.3.15 Cryptographic Devices TR: TM 3155-2USC-43-2/ Applicable C-141 Technical Orders										
7.3.15.1 Inspect								-	-	-
7.3.15.2 Use	*							-	-	-
7.3.15.3 Load								-	-	-
7.3.16 Secure Voice (KY-58)										
7.3.16.1 Theory of Operation								-	-	-
7.3.16.2 Perform Operational Check	*							-	-	-
7.3.16.3 Isolate Malfunctions	*							-	-	-
7.3.16.4 Perform Advanced Troubleshooting		*						-	-	-
7.3.17 Cockpit Voice Recorder (Fairchild A-100)										
7.3.17.1 Theory of Operation								-	-	-
7.3.17.2 Perform Operational Checks	*							-	-	-
7.3.17.3 Isolate Malfunctions	*							-	-	-
7.3.17.4 Perform Advanced Troubleshooting		*						-	-	-
7.3.18 Emergency Locator Transmitters (ELT) (RLB-9(3))										
7.3.18.1 Theory of Operation								-	-	-
7.3.18.2 Perform Operational Check	*							-	-	-
7.3.18.3 Remove and Install Battery	*							-	-	-
7.3.18.4 Register ELT								-	-	-
7.3.18.5 Isolate Malfunctions	*							-	-	-
7.3.18.6 Perform Advanced Troubleshooting		*						-	-	-
7.4 NAVIGATION SYSTEMS (KC-10)										
7.4.1 Identification Friend or Foe (IFF) Transponders (AN/ APX-119(V))										
7.4.1.1 Theory of Operation								-	-	-
7.4.1.2 Perform Operational Check										
7.4.1.2.1 Mode 1, Mode 2, Mode 3A, Mode C	*							-	-	-
7.4.1.2.2 Mode 4	*							-	-	-
7.4.1.2.3 Mode 5								-	-	-
7.4.1.3 Isolate Malfunctions	*							-	-	-
7.4.1.4 Perform Advanced Troubleshooting		*						-	-	-
7.4.2 VHF Navigation System VOR/LOC (Collins 51RV-4B)										
7.4.2.1 Theory of Operation								-	-	-
7.4.2.2 Perform Operational Checks	*							-	-	-

**KC-10 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.4.2.3 Remove/ Install										
7.4.2.3.1 VOR/LOC Antenna								-	-	-
7.4.2.3.2 VOR/LOC Coupler								-	-	-
7.4.2.3.3 VOR/LOC Hybrid Coupler								-	-	-
7.4.2.4 Isolate Malfunctions	*							-	-	-
7.4.2.5 Perform Advanced Troubleshooting		*						-	-	-
7.4.3 Instrument Landing System (ILS)										
7.4.3.1 Theory of Operation								-	-	-
7.4.3.2 Perform Operational Checks	*							-	-	-
7.4.3.3 Remove and Install Sense Antenna								-	-	-
7.4.3.4 Isolate Malfunctions	*							-	-	-
7.4.3.5. Perform Advanced Troubleshooting		*						-	-	-
7.4.4 Tactical Air Navigation (TACAN-I) (AN/ARN-118)										
7.4.4.1 Theory of Operation								-	-	-
7.4.4.2 Perform Operational Checks	*							-	-	-
7.4.4.3 Isolate Malfunctions	*							-	-	-
5.4.4.3 Perform Advanced Troubleshooting		*						-	-	-
7.4.5 Tactical Air Navigation (TACAN-II) (AN/ARN-139)										
7.4.5.1 Theory of Operation								-	-	-
7.4.5.2 Perform Operational Checks	*							-	-	-
7.4.5.3 Remove and Install Rotating Antenna	*							-	-	-
7.4.5.4 Isolate Malfunctions	*							-	-	-
7.4.5.5 Perform Advanced Troubleshooting		*						-	-	-
7.4.6 Inertial Navigation System (Litton LTN-72R)										
7.4.6.1 Theory of Operation								-	-	-
7.4.6.2 Perform Operational Checks	*							-	-	-
7.4.6.3 Isolate Malfunctions	*							-	-	-
7.4.6.4 Perform Advanced Troubleshooting		*						-	-	-
7.4.7 Flight Management System (FMS-800)/ Global Positioning System										
7.4.7.1 Theory of Operation								-	-	-
7.4.7.2 Perform Operational Checks on GPS	*							-	-	-
7.4.7.3 Remove and Install Control Display Unit Battery								-	-	-
7.4.7.4 Isolate Malfunctions	*							-	-	-
7.4.7.5 Perform Advanced Troubleshooting		*						-	-	-
7.4.8 UHF Direction Finder (DF) (DF-301E)										
7.4.8.1 Theory of Operation								-	-	-
7.4.8.2 Perform Operational Checks	*							-	-	-
7.4.8.3 Isolate Malfunctions	*							-	-	-
7.4.8.4 Perform Advanced Troubleshooting		*						-	-	-
7.5 RADAR (KC-10)										
7.5.1 Color Weather Radar (APS-133)										

**KC-10 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.5.1.1 Theory of Operation								-	-	-
7.5.1.2 Perform Operational Checks	*							-	-	-
7.5.1.3 Remove and Install Waveguide Switch										
7.5.1.4 Isolate Malfunctions	*									
7.5.1.5 Perform Advanced Troubleshooting		*						-	-	-
<b>7.5.2 Radio Altimeter (Bendix ALA-51A)</b>										
7.5.2.1 Theory of Operation								-	-	-
7.5.2.2 Perform Operational Checks	*							-	-	-
7.5.2.3 Isolate Malfunctions	*							-	-	-
7.5.2.4 Perform Advanced Troubleshooting		*						-	-	-

**KC-135 TRAINING REQUIREMENTS**

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

**Attachment 8 KC-135 Training Requirements**

NOTE 1: The apprentice course, J3ABR2A8X1XXXXX, MAF Communication/Countermeasures/Navigation Systems Apprentice, will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the specific STS. The general training requirements section of the CFETP is used to code core competencies of the career field that will be taught in the apprentice course. The MDS specific attachments are to be used in conjunction with the general and common sections to identify work center requirements and annotate qualifications.

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

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

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

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

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

<b>8.1 GENERAL ORGANIZATIONAL MAINTENANCE (KC-135)</b>										
8.1.1 Introduction to Aircraft/ Airframe Familiarization								-	-	-
8.1.2 Technical Order Familiarization								-	-	-
8.1.3 Flightline Safety/ Precautions/ Security								-	-	-
8.1.4 Dropped Object Prevention Program (DOPP)								-	-	-
8.1.5 Aircraft Egress Procedures								-	-	-
<b>8.2 GENERAL MAINTENANCE TASKS (KC-135)</b>										
8.2.1 Aircraft Safe for Maintenance	*							-	-	-
8.2.2 Statically Ground Aircraft								-	-	-
8.2.3 Select/ Use Safetying Devices								-	-	-
8.2.4 Apply/ Disconnect External Electrical Power	*							-	-	-
8.2.5 Operate Crew Entrance Door								-	-	-
8.2.6 Operate Cargo Doors								-	-	-
8.2.7 Remove/ Install Radome	*							-	-	-
8.2.8 Open/ Close Keel Beam Doors								-	-	-
8.2.9 Remove/ Install Maintenance Panels								-	-	-
8.2.10 Open/ Close Engine Cowling								-	-	-
8.2.11 Perform Aircraft Marshaling Procedures								-	-	-
8.2.12 Launch Aircraft										
8.2.13 Recover Aircraft								-	-	-
8.2.14 Perform Refuel/ Defuel Team Member Duties								-	-	-
8.2.15 Perform Aircraft Wash								-	-	-
8.2.16 Jacking Team Member								-	-	-
8.2.17 Tow Aircraft										
8.2.17.1 Perform Wing/ Tail Walker Duties								-	-	-
8.2.17.2 Brake Operator								-	-	-
8.2.18 De-Ice Aircraft								-	-	-
8.2.19 Perform ISO Inspections								-	-	-
8.2.20 Operate										

**KC-135 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
8.2.20.1 Hydraulics								-	-	-
8.2.20.2 APU/ QSAS								-	-	-
8.2.20.3 Perform Preflight/ Thruflight Inspection								-	-	-
8.3 COMMUNICATION SYSTEMS (KC-135)										
8.3.1 Airborne Digital Interphone System (ADIS)										
8.3.1.1 Theory of Operation								-	-	-
8.3.1.2 Perform Operational Check	*							-	-	-
8.3.1.3 Remove/ Install PTT Switches (i.e. Tiller, Yoke, Ruddervator)	*							-	-	-
8.3.1.4 Isolate Malfunctions	*							-	-	-
8.3.1.5 Perform Advanced Troubleshooting		*						-	-	-
8.3.2 In-Flight Refuel Interphone								-	-	-
8.3.2.1 Theory of Operation								-	-	-
8.3.2.2 Perform Operational Check	*							-	-	-
8.3.2.3 Isolate Malfunctions								-	-	-
8.3.2.4 Perform Advanced Troubleshooting								-	-	-
8.3.3 High Frequency (HF) Radio (AN/ ARC-190) Automatic Communications										
8.3.3.1 Theory of Operation								-	-	-
8.3.3.2 Perform Operational Check	*							-	-	-
8.3.3.3 Load Software	*							-	-	-
8.3.3.4 Remove/ Install										
8.3.3.4.1 Mast								-	-	-
8.3.3.4.2 Longwire	*							-	-	-
8.3.3.4.3 Probe Antenna								-	-	-
8.3.3.5 Isolate Malfunctions	*							-	-	-
8.3.3.6 Perform Advanced Troubleshooting		*						-	-	-
8.3.4 Ultra High Frequency (UHF) Radio System (AN/ ARC-164)										
8.3.4.1 Theory of Operation								-	-	-
8.3.4.2 Perform Operational Check										
8.3.4.2.1 Normal	*							-	-	-
8.3.4.2.2 Have Quick	*							-	-	-
8.3.4.3 Isolate Malfunctions	*							-	-	-
8.3.4.4 Perform Advanced Troubleshooting		*						-	-	-
8.3.5 Multipurpose Communications (AN/ ARC-210)										
8.3.5.1 Theory of Operation								-	-	-
8.3.5.2 Perform Operational Check										
8.3.5.2.1 Normal	*							-	-	-
8.3.5.2.2 Have Quick	*							-	-	-
8.3.5.2.3 Secure	*							-	-	-
8.3.5.3 VHF Datalinking Module (VDL)	*							-	-	-
8.3.5.4 Load System Software	*							-	-	-
8.3.5.5 Isolate Malfunctions	*							-	-	-
8.3.5.6 Perform Advanced Troubleshooting		*						-	-	-

**KC-135 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
8.3.6 ARC-210 Demand Assign Multiple Access (DAMA) Satellite								-	-	-
8.3.6.1 Theory of Operation								-	-	-
8.3.6.2 Perform Operational Check								-	-	-
8.3.6.3 Load Software								-	-	-
8.3.6.4 Isolate Malfunctions								-	-	-
8.3.6.5 Perform Advanced Troubleshooting								-	-	-
8.3.7 SATCOM 2000										
8.3.7.1 Theory of Operation								-	-	-
8.3.7.2 Perform Operational Check	*									
8.3.7.3 Load System Software	*							-	-	-
8.3.7.4 Remove/ Install Intermediate Gain Antenna (IGA)								-	-	-
8.3.7.5 Isolate Malfunctions	*							-	-	-
8.3.7.6 Perform Advanced Troubleshooting		*						-	-	-
8.3.8 Communication Management System (CMS)										
8.3.8.1 Theory of Operation								-	-	-
8.3.8.2 Perform Operational Check	*							-	-	-
8.3.8.3 Load System Software	*							-	-	-
8.3.8.4 Isolate Malfunctions	*							-	-	-
8.3.8.5 Perform Advanced Troubleshooting		*						-	-	-
8.3.9 Printer (TP-4429)										
8.3.9.1 Theory of Operation								-	-	-
8.3.9.2 Perform Operational Check								-	-	-
8.3.9.3 Load Paper								-	-	-
8.3.9.4 Isolate Malfunctions								-	-	-
8.3.9.5 Perform Advanced Troubleshooting								-	-	-
8.3.10 Emergency Locator Transmitter/ Crash Position Indicator (CPI)										
8.3.10.1 Theory of Operation								-	-	-
8.3.10.2 Perform Operational Check	*							-	-	-
8.3.10.3 Isolate Malfunctions	*							-	-	-
8.3.10.4 Perform Advanced Troubleshooting		*						-	-	-
8.3.11 Secure Voice Processor										
8.3.11.1 Theory of Operation								-	-	-
8.3.11.2 Perform Operational Check	*							-	-	-
8.3.11.3 Remove/ Install System LRU	*							-	-	-
8.3.11.4 Isolate Malfunctions	*							-	-	-
8.3.11.5 Perform Advanced Troubleshooting		*						-	-	-
8.3.12 Cockpit Voice Recorder (CVR)										
8.3.12.1 Theory of Operation								-	-	-
8.3.12.2 Perform Operational Checks	*							-	-	-
8.3.12.3 Isolate Malfunctions	*							-	-	-
8.3.12.4 Perform Advanced Troubleshooting		*						-	-	-
8.3.13 Tactical Information Gateway (TIG)/										

**KC-135 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
<b>Roll-On-Beyond-Line of Sight (ROBE)</b>										
8.3.13.1 Theory of Operation								-	-	-
8.3.13.2 Perform Operational Check								-	-	-
8.3.13.3 Install/ Remove ROBE Kit								-	-	-
8.3.13.4 Isolate Malfunctions								-	-	-
<b>8.3.14 Command and Control Interoperability System/ Dual UHF SATCOM Terminal</b>										
8.3.14.1 Theory of Operation								-	-	-
8.3.14.2 Perform Operational Check								-	-	-
8.3.14.3 Install/ Remove DUST Kit								-	-	-
8.3.14.4 Isolate Malfunctions								-	-	-
<b>8.4 NAVIGATION SYSTEMS (KC-135)</b>										
<b>8.4.1 SIF/ IFF Transponders</b>										
8.4.1.1 Theory of Operation								-	-	-
8.4.1.2 Perform Operational Check										
8.4.1.2.1 Mode 1, Mode 2, Mode 3A, Mode C	*							-	-	-
8.4.1.2.2 Mode 4	*							-	-	-
8.4.1.2.3 Mode 5	*							-	-	-
8.4.1.2.4 Mode S	*							-	-	-
8.4.1.3 Isolate Malfunctions	*							-	-	-
8.4.1.4 Perform Advanced Troubleshooting		*						-	-	-
<b>8.4.2 Enhanced Traffic Alert and Collision Avoidance System (ETCAS)</b>										
8.4.2.1 Theory of Operation								-	-	-
8.4.2.2 Perform Operational Checks	*							-	-	-
8.4.2.4 Isolate Malfunctions	*							-	-	-
8.4.2.5 Perform Advanced Troubleshooting		*						-	-	-
<b>8.4.3 Radio Navigation System (Multi-Mode Receiver)</b>										
8.4.3.1 Theory of Operation								-	-	-
8.4.3.2 Perform Operational Check	*							-	-	-
8.4.3.3 Load Software	*							-	-	-
8.4.3.4 Isolate Malfunctions	*							-	-	-
8.4.3.5 Perform Advanced Troubleshooting		*						-	-	-
<b>8.4.4 Tactical Air Navigation (TACAN) (AN/ARN-118(V))</b>										
8.4.4.1 Theory of Operation								-	-	-
8.4.4.2 Perform Operational Checks	*							-	-	-
8.4.4.3 Isolate Malfunctions	*							-	-	-
8.4.4.4 Perform Advanced Troubleshooting		*						-	-	-
<b>8.4.5 Embedded Global Positioning System (EGI)/ Inertial Navigation System (INS)</b>										
8.4.5.1 Theory of Operation								-	-	-
8.4.5.2 Perform Operational Checks	*							-	-	-
8.4.5.3 Isolate Malfunctions	*							-	-	-
8.4.5.4 Perform Advanced Troubleshooting		*						-	-	-

**KC-135 TRAINING REQUIREMENTS**

1. Tasks, Knowledge And Technical References	2. Core Tasks		3. Certification for OJT					4. Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
<b>8.5 RADAR SYSTEMS (KC-135)</b>										
8.5.1 Color Weather Radar										
8.5.1.1 Theory of Operation								-	-	-
8.5.1.2 Perform Operational Checks	*							-	-	-
8.5.1.3 Remove/ Install System LRUs										
8.5.1.3.1 Antenna		*						-	-	-
8.5.1.3.2 Pedestal		*						-	-	-
8.5.1.4 Isolate Malfunctions	*							-	-	-
8.5.1.5 Perform Advanced Troubleshooting		*						-	-	-
<b>8.5.2 Low Range Altimeter System</b>										
8.5.2.1 Theory of Operation								-	-	-
8.5.2.2 Perform Operational Checks	*							-	-	-
8.5.2.3 Isolate Malfunctions	*							-	-	-
8.5.2.4 Perform Advanced Troubleshooting		*						-	-	-
<b>8.6 MISSION SYSTEMS (KC-135)</b>										
8.6.1 Flight Display System										
8.6.1.1 Theory of Operation								-	-	-
8.6.1.2 Operate System	*							-	-	-
8.6.1.3 Perform System Operational Checks								-	-	-
8.6.1.4 Load Software								-	-	-
8.6.1.5 Isolate Malfunctions								-	-	-
8.6.1.6 Perform Advanced Troubleshooting								-	-	-
<b>8.6.2 Information Management System/ Flight Management System (IMS/ FMS)</b>										
8.6.2.1 Theory of Operation								-	-	-
8.6.2.2 Operate System	*							-	-	-
8.6.2.3 Perform System Operational Checks								-	-	-
8.6.2.4 Load Software								-	-	-
8.6.2.5 Remove/ Install Co-Pilot's CDU										
8.6.2.6 Isolate Malfunctions								-	-	-
8.6.2.7 Perform Advanced Troubleshooting								-	-	-

**KC-46 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 9 - KC-46 Training Requirements – Reserved for KC-46**

## 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 10 – 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.

10.1 AVIONICS SUPPORT SUBJECTS										
10.1.1 Safety								B	-	-
10.1.2 First Aid								A	-	-
10.1.3 Electrostatic Discharge (ESD) Control								B	-	-
10.1.4 Electromagnetic Effects (EMP/EMI)								B	-	-
10.1.5 Metric Notation										
10.1.5.1 Powers of Ten								B	-	-
10.1.5.2 Electrical Prefixes								B	-	-
10.1.6 Digital Numbering systems								A	-	-
10.1.7 Common Tools								A	-	-
10.1.8 Technical Publications								A	-	-
10.1.9 Documentation								A	-	-
10.2 TEST EQUIPMENT										
10.2.1 Use Digital Multimeter								2b	-	-
10.2.2 Use Oscilloscope								2b	-	-
10.2.3 Wave Generators								A	-	-
10.3 BASIC ELECTRICITY										
10.3.1 Direct Current (DC)								B	-	-
10.3.2 Alternating Current (AC)								B	-	-
10.3.3 Resistance Theory										
10.3.3.1 Measure Resistance								2b	-	-
10.3.4 Capacitance Theory								B	-	-
10.3.5 Inductance Theory								B	-	-
10.4 Electromagnetic Devices										
10.4.1 Transformers								B	-	-
10.4.2 Relays and Solenoids										
10.4.2.1 Theory								B	-	-
10.4.2.2 Troubleshoot Relay								2b	-	-
10.4.3 Motor Theory										
10.4.3.1 DC								A	-	-
10.4.3.2 AC								A	-	-
10.4.4 Generator Theory										
10.4.4.1 DC								A	-	-
10.4.4.2 AC								A	-	-
10.4.5 Synchro/Servo								B	-	-
10.4.6 Transducer								B	-	-
10.5 Solid State Devices										
10.5.1 Theory								A	-	-
10.5.2 Diodes (LED, Zener, etc)								A	-	-
10.5.3 Integrated Circuits								A	-	-

## 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
10.5.4 Operational Amplifiers								A	-	-
10.6 Power Supply Circuits										
10.6.1 Theory								B	-	-
10.7 Wave Generating Circuits										
10.7.1 Theory								A	-	-
10.8 Digital Logic Circuits										
10.8.1 Theory								A	-	-
10.8.2 Gates								A	-	-
10.8.3 Flip Flops								A	-	-
10.8.4 Digital to Analog and Analog to Digital Converters								A	-	-
10.9 Basic Computer & Network Fundamentals										
10.9.1 Theory								A	-	-
10.9.2 Network Components								A	-	-
10.9.3 Protocols								A	-	-
10.9.4 Topologies (Architecture)								A	-	-
10.10 Basic Communications										
10.10.1 Radio Frequency Theory								A	-	-
10.10.2 Frequency Spectrum								A	-	-
10.10.3 Modulation (AM/FM)								A	-	-
10.10.4 Demodulation (AM/FM)								A	-	-
10.10.5 Receivers/Transmitters								A	-	-
10.10.6 Transmission Mediums Theory								A	-	-
10.10.7 Waveguides								A	-	-
10.10.8 Data Buses								A	-	-
10.10.9 Fiber Optics								A	-	-
10.10.10 Coaxial Cables								A	-	-
10.10.11 Antennas								A	-	-
10.11 Assemble Solder Type Connections										
10.11.1 Terminal Connection								1b	-	-
10.11.2 Multipin Connector								1b	-	-
10.11.3 Coaxial Connector								1b	-	-
10.11.4 Desolder Procedures								1b	-	-
10.12 Assemble Solderless Type Connections										
10.12.1 Coaxial Connector								1b	-	-
10.12.2 Multipin Connector								1b	-	-
10.12.3 Twin-axial Connector (Data Bus)								1b	-	-
10.12.4 Crimped Connection										
10.12.4.1 Terminal Lugs								1b	-	-
10.12.4.2 Wire Splice								1b	-	-
10.12.5 Shield Termination								1b	-	-
10.13 General Maintenance Practices										
10.13.1 Assemble Multipin Connector Harness								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
10.13.2 Secure Cable Harness								1b	-	-
10.13.3 Use Safety Wire								1b	-	-
10.13.4 Troubleshooting Procedures										
10.13.4.1 Isolate Wire Open								1b	-	-
10.13.4.2 Isolate Wire Short								1b	-	-
10.13.4.3 Isolate Voltage Fault on Multipin Connector Harness								1b	-	-
10.13.4.4 Isolate Crossed Connection on Multipin Connector Harness								1b	-	-

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## 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
<b>Attachment 11 – AEROSPACE MAINTENANCE CRAFTSMAN TRAINING REQUIREMENTS</b>				
NOTE 1: Columns 2 and 3 are deleted from this STS because all items are SUBJECT KNOWLEDGE LEVEL only and require no certification.				
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision.				
NOTE 3: This attachment is to be used in conjunction with other attachments in applicable CFETPs.				
NOTE 4: Personnel must complete CDC requirements on all MDSs/attachments.				
NOTE 5: This attachment is to be used as a correlation document for the 2AX7X, 7-level Aerospace Maintenance Craftsman, CDCs.				
11.1. MAINTENANCE PHILOSOPHY AND POLICY				
11.1.1. Aircraft and Equipment Readiness TR: AFI 21-101				A
11.1.2. Maintenance Concept TR: AFI 21-101 and AFI 21-129				A
11.1.3. Reliability and Maintainability (R&M) TR: AFI 21-101, AFI 21-118 and TO 00-35D-54				A
11.1.4. Operating Instructions (OI) TR: AFI 21-101 and AFI 33-360				A
11.1.5. Maintenance Information Systems (MIS) TR: AFCSM 21-556 Volume 2, AFI 21-101, AFI 21-116, and TO 00-20-2				B
11.1.6. Maintenance Metrics TR: AFI 21-103 and AFTTP 3-3				A
11.1.7. Maintenance Repair Priorities TR: AFI 21-101				A
11.1.8. Historical Aircraft and Equipment Records TR: AFI 21-101 and TO 00-20-1				A
11.2. MAINTENANCE ORGANIZATION KEY LEADER RESPONSIBILITIES				
11.2.1. Wing Commander (WG/CC) TR: AFI 21-101 and AFI 38-101				A
11.2.2. Wing Vice Commander (WG/CV) TR: AFI 21-101 and AFI 38-101				A
11.2.3. Maintenance Group Commander (MXG/CC) TR: AFI 21-101 and AFI 38-101				A
11.2.4. Maintenance Group Deputy Commander (MXG/CD) TR: AFI 21-101				A
11.2.5. MXG Superintendent (SUPT) TR: AFI 21-101				A
11.2.6. Squadron Commander (SQ/CC) TR: AFI 21-101				A
11.2.7. Maintenance Operations Officer (MOO)/Maintenance Superintendent (MX SUPT) TR: AFI 21-101				A
11.2.8. Flight Commander/Flight Chief TR: AFI 21-101				A
11.2.9. AMU OIC/Superintendent (SUPT) TR: AFI 21-101				A
11.2.10. Section NCOIC/Chief TR: AFI 21-101				B
11.2.11. Production Superintendent (Pro Super) TR: AFI 21-101				A
11.3. FUNCTIONS OF MAINTENANCE OPERATIONS SQUADRON (MOS)				
11.3.1. Maintenance Operations Flight (MOF) TR: AFI 21-101				A

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## 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
11.3.2.	Maintenance Training Flight (MTF) TR: AFI 21-101 and AFI 36-2232				A
11.3.3.	Programs and Resources Flight TR: AFI 21-101				A
11.4.	<b>FUNCTIONS OF AIRCRAFT/HELICOPTER MAINTENANCE SQUADRON (AMXS/HMXS)</b>				
11.4.1.	Aircraft Maintenance Unit (AMU) TR: AFI 21-101				A
11.4.2.	Flightline Expediter TR: AFI 21-101				A
11.4.3.	Aircrew and Maintenance Debrief Section TR: AFI 21-101				A
11.4.4.	Aircraft Section TR: AFI 21-101				A
11.4.5.	Specialist Section TR: AFI 21-101				A
11.4.6.	Weapons Section TR: AFI 21-101				A
11.4.7.	Support Section TR: AFI 21-101				A
11.5.	<b>FUNCTIONS OF MAINTENANCE SQUADRON (MXS)</b>				
11.5.1.	Accessories Flight TR: AFI 21-101				A
11.5.2.	Aerospace Ground Equipment (AGE) Flight TR: AFI 21-101				A
11.5.3.	Armament Flight TR: AFI 21-101				A
11.5.4.	Avionics Flight TR: AFI 21-101				A
11.5.5.	Fabrication Flight TR: AFI 21-101				A
11.5.6.	Maintenance Flight TR: AFI 21-101				A
11.5.7.	Munitions Flight TR: AFI 21-101				A
11.5.8.	Propulsion Flight TR: AFI 21-101				A
11.5.9.	Test, Measurement, and Diagnostic Equipment (TMDE) Flight TR: AFI 21-101				A
11.6.	<b>MAINTENANCE TRAINING</b>				
11.6.1	Types of Training TR: AFI 36-2232 and the ETCA site located at: <a href="https://etca.randolph.af.mil/">https://etca.randolph.af.mil/</a>				A
11.6.2.	Training Documentation TR: AFI 21-101, AFI 36-2201 and AFI 36-2232				A
11.6.3.	Training Business Area (TBA) TR: <a href="https://www.my.af.mil/imds/tpa/IMDSTWeb/ActionServlet">https://www.my.af.mil/imds/tpa/IMDSTWeb/ActionServlet</a>				B
11.6.4.	Special Certification Rosters TR: AFI 21-101				A
11.6.5.	Maintenance Qualification Program (MQP) TR: AFI 21-101, AFI 36-2232 and AFPD 10-9				A
11.6.6.	Training Management TR: AFI 36-2201, AFI 36-2232, AFI 21-101 and AETCI 36-2601				
11.6.6.1.	Training Forecast				A

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## 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
11.6.6.2. Training Request				A
11.6.6.3. Master Training Plan				A
<b>11.7. PERSONNEL RESOURCE MANAGEMENT</b>				
11.7.1. Unit Manpower Document (UMD) and Unit Personnel Manpower Roster (UPMR) TR: AFI 36-2110, AFI 38-201 and AFTTP 3-3				A
11.7.2. Personnel Utilization TR: AFI 21-101				A
<b>11.8. MAINTENANCE SUPPLY</b>				
11.8.1. Logistics Readiness Squadron (LRS) Supply Support TR: AFI 21-101, AFMAN 23-110 (Vol. 1) and AFTTP 3-3				A
11.8.2. Readiness Spares Packages TR: AFI 21-101, AFMAN 23-110 and AFTTP 3-3				A
11.8.3. Consumables Management TR: AFI 21-101, AFMAN 23-110 and AFTTP 3-3				A
11.8.4. Equipment Items TR: AFI 21-101, AFMAN 23-110 and AFMAN 23-220				A
11.8.5. Supply Assets Requiring Functional Check, Calibration, or Operational Flight Programming TR: AFI 21-101, AFMAN 23-110 and TO 00-20-3				A
11.8.6. Precious Metals Recovery Program TR: AFI 21-101 and AFMAN 23-110				A
11.8.7. Supply Points TR: AFI 21-101 and AFMAN 23-110				A
11.8.8. Local Manufacture TR: AFI 21-101				A
11.8.9. Repair Cycle Assets TR: AFI 21-101 and AFMAN 23-110				A
11.8.10. Supply Management Products TR: AFI 21-101 and AFMAN 23-110				A
11.8.11. Tail Number Bins (TNB) TR: AFI 21-101 and AFMAN 23-110				A
11.8.12. Maintenance Repair/Supply Delivery Priorities TR: AFI 21-101 and AFMAN 23-110				A
11.8.13. Classified Assets TR: AFI 21-101, AFJI 31-102, TO 00-5-1 and TO 00-20-1				A
11.8.14. Hazardous Materials TR: AFI 21-101, AFI 32-7086 and AFI 90-821				A
11.8.15. Supply Deficiency and Discrepancy Reporting TR: AFI 21-101, AFMAN 23-110 and TO 00-35D-54				B
11.8.16. 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
AA8.17. Maintenance Supply Liaison TR: AFI 21-101 and AFMAN 23-110				A
<b>11.9. TECHNICAL ORDER MANAGEMENT</b>				
11.9.1. Technical Orders Distribution Process TR: AFI 21-101, AFI 63-101, AFTTP 3-3 and TO 00-5-1				A
11.9.2. Time Compliance Technical Orders (TCTO) TR: TO 00-5-15				A
11.9.3. Technical Order Change Process TR: AFI 21-303				A
11.9.4. Technical Order Waivers TR: AFI 21-101 and AFI 21-303				A

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## 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
<b>11.10. MAINTENANCE REQUIREMENTS AND PROGRAMS</b>				
11.10.1. Cannibalization Program TR: AFI 21-101 and AFTTP 3-3				A
11.10.2. Restricted Maintenance Areas TR: AFI 21-101				A
11.10.3. Red Ball Maintenance TR: AFI 21-101				A
11.10.4. Aircraft/Equipment Impoundment Program TR: AFI 21-101				A
11.10.5. Foreign Object Damage (FOD) Program TR: AFI 21-101, AFI 36-2232 and AFTTP 3-3				A
11.10.6. Dropped Object Prevention (DOP) Program TR: AFI 21-101				A
11.10.7. Tool Management TR: AFI 21-101				A
11.10.8. Tool Accountability TR: AFI 21-101				A
11.10.8.1. Marking and Tool Identification TR: AFI 21-101				A
11.10.8.2 Locally Manufactured, Developed, or Modified Tools and Equipment TR: AFI 21-101				A
11.10.8.3. Lost Item/Tool Procedures TR: AFI 21-101				A
11.10.9. Maintenance Recovery Team TR: AFI 21-101				A
<b>11.11. QUALITY ASSURANCE (QA) PROGRAM</b>				
11.11.1. Maintenance Standardization and Evaluation Program (MSEP) TR: AFI 21-101 and AFTTP 3-3				A
11.11.2. QA Product Improvement Program TR: AFI 21-101				A
11.11.3. Configuration Management (CM) and Modification Management TR: AFI 21-101				A