

AFSC 2A3X5X

ADVANCED FIGHTER AIRCRAFT INTEGRATED AVIONICS F-22 / F-35 / MQ-1 / MQ-9 / RQ-4



CAREER FIELD EDUCATION AND TRAINING PLAN

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

RELEASABILITY: There are no releasability restrictions on this publication.

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Supersedes: CFETP 2A3X5, 1 Jan 2013
2A3X5 Chg 1, 1 Apr 2014
2A3X5 Chg 2, 5 Sep 2014

OPR: 365 TRS/TRR
Certified by: HQ USAF/A4LM
Printed Pages: 22

CAREER FIELD EDUCATION AND TRAINING PLAN
ADVANCED FIGHTER AIRCRAFT INTEGRATED AVIONICS F-22/F-35/MQ-1/MQ-9/RQ-4
AFSC 2A3X5X

PART I

PREFACE

1. This Career Field Education and Training Plan (CFETP), directed by AFI 36-2201, *Air Force Training Program*, Attachment 2, is a comprehensive education and training document that identifies life-cycle education and training requirements, training support resources, and minimum core task requirements for 2A3X5X, the Advanced Fighter Aircraft Integrated Avionics F-22/F-35/MQ-1/MQ-9/RQ-4 specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training. This CFETP supersedes the 2A3X5 CFETP (1 Jan 13) and Change 1 (1 Apr 14) and Change 2 (5 Sep 14). The official CFETP can be found at the Air Force E-Publishing website: <http://www.e-publishing.af.mil/>. 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, training, and other). Section D indicates resource constraints to accomplishing this plan, such as funds, manpower, equipment, and facilities. Section E identifies transition training guide requirements for SSgt through MSgt and other SNCOs as required by the Air Force Career Field Manager (AFCFM).

2.2. Part II includes the following: Section A contains the Specialty Training Standard (STS) and includes duties, tasks, and technical references to support training including AETC conducted training, core and Home Station Training (HST) tasks, deployment/UTC tasks, and correspondence course requirements. Section B contains the Course Objective List (COL) and training standards to determine Airman training requirements. Section C identifies available support materials and (when developed) a Qualification Training Plan (QTP) to support proficiency training. Section D identifies a course training index. Section E identifies MAJCOM unique training requirements. 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 and/or 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 AFJQS tasks are common to all persons serving in the described duty position.

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

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

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, eliminate duplication, and 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: Additional training that exceeds minimum upgrade requirements and has an emphasis on present or future duty assignments.

Core Task: Tasks that the Air Force Career Field Manager (AFCFM) identifies as minimum qualification requirements within an Air Force Specialty (AFS).

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

Enlisted Specialty Training (EST): A mix of formal AETC training and On-the-Job Training (OJT) designed to qualify and upgrade Airmen in each skill level of a specialty.

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

Field Technical Training (Type 4): Special or regular on-site training conducted by a Training Detachment (TD) or by a Mobile Training Team (MTT).

Go/No Go Level: In On-the-Job Training (OJT), the stage at which individual has gained enough skill, knowledge, and experience to either be qualified to perform identified task without assistance or cannot perform task without assistance.

Initial Skills Training: A formal school course that results in the award of a 3-skill level Air Force Specialty Code (AFSC).

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

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 aid in decision-making processes at all levels.

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

Master Training Plan (MTP): A comprehensive work-center training plan that may include the Master Task Listings (MTL), Qualification Training Packages (QTP), the Air Force Job Qualification Standard (AFJQS), the Career Field Education and Training Plan (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 survey of tasks performed within a particular Air Force Specialty (AFS).

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

Plan of Instruction (POI): An AETC course document used for course planning, organization, operation, and validation. It provides course objectives, level of training provided, planned times, sequence of instruction, required resources, and specifies how course objectives are measured.

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

Proficiency Training: Additional training provided via in-residence courses, exportable advanced training courses, or On-the-Job Training (OJT) training 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.

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

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

Specialty Training Standard (STS): An Air Force document that is published as an attachment to the appropriate Career Field Education and Training Plan (CFETP) that describes an Air Force Specialty (AFS) in terms of tasks and knowledge an Airman may be expected to perform or to know on the job. It serves as a contract between AETC and the functional user to show which of the overall training requirements for an Air Force Specialty Codes (AFSC) are taught in formal schools, Career Development Courses (CDC), and exportable courses.

Specialty Training Requirements Team (STRT): Primary purpose of the STRT is for the Air Force Career

Field Manager (AFCFM) and MAJCOM Functional Managers (MFM) to determine and present training requirements to AETC. Attendees include the AFCFM, AETC Training Pipeline Manager (TPM), AETC Training Managers (TM), MFMs, Subject Matter Experts (SME), and AETC Occupational Analysis Division. The AFCFM chairs the STRT. The AETC TPM and TMs attend as advisors.

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

Task Certifier: See Certification Official

Training Business Area (TBA): Net-Centric, GCSS-AF IF Web-Based application providing Air Force War fighters with global, real-time visibility into the technical qualifications, certifications, and training status of logistics, communications and information professionals Air Force wide. TBA supports base, wing, and work center level training management activities by automating training management business processes. The primary users of TBA will be any personnel directly involved in base level training management and certification activities. TBA is being developed and maintained by 754th Electronic Systems Group, Installation and Logistics, Maintenance Flight (754 ELSG/ILM) at Maxwell-Gunter AFB.

Training Detachment (TD): An AETC detachment that provides maintenance oriented technical training at an operational location. Training can address specific systems, including aerospace ground equipment, or cover new equipment techniques and procedures. A TD qualifies personnel to maintain proficiency, 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 in-residence school, On-the-Job Training (OJT), field training, Mobile Training Team (MTT), self-study, etc.).

Upgrade Training (UGT): A mixture of mandatory courses, task qualification, Qualification Training Packages (QTP), and Career Development Courses (CDC) required for award of a 3-, 5-, 7-, or 9-skill level.

Utilization and Training Workshop (U&TW): A forum convened and chaired on a recurring basis by the AF Career Field Manager (AFCFM), designed to review the appropriate Career Field Education and Training Plan (CFETP) and its attachments. The purpose is to ensure currency, accuracy, and completeness of content, to include specific formal career ladder training requirements. Workshops are co-chaired by AETC Training Pipeline Manager (TPM) and include MAJCOM Functional Managers (MFM), AETC training personnel, and Subject Matter Experts (SMEs).

ACRONYMS USED

A&P – Airframe and Power
ADL – Advance Distribution Learning
AFCFM – Air Force Career Field Manager
AF-COOL – Air Force Credentialing Opportunities On-Line
AFECD – Air Force Enlisted Classification Directory
AFJQS – Air Force Job Qualification Standard
AFRC – Air Force Reserve Command
AFS – Air Force Specialty
AFSC – Air Force Specialty Code
AFTC – Air Force Training Course
AFVEC – Air Force Virtual Education Center
ALS – Airman Leadership School
ANG – Air National Guard
ARC – Air Reserve Component
AU – Air University
AvF – Avionics Fundamentals
BMT – Basic Military Training
CCAF – Community College of the Air Force
CDC – Career Development Course
CEM – Chief Enlisted Manager
CFETP – Career Field Education and Training Plan
COL – Course Objective List
CSIL – Customer Service Information Line
CTS – Course Training Standard
DL – Distributed Learning
DLC – Distance Learning Course
EPME – Enlisted Professional Military Education
EST – Enlisted Specialty Training
HST – Home Station Training
HUD – Heads Up Display
HYT – High Year Tenure
ICW – Interactive Courseware
ISD – Instructional System Development
ITP – Individual Training Plan
ITU – Instructional Technology Unit
JQS – Job Qualification Standard

JSAMTCC – Joint Service Aviation Maintenance Technician Certification Council

MDS – Mission Design Series

MFM – MAJCOM Functional Manager

MIS – Maintenance Information System

MMCL – MAJCOM Mandatory Course List

MTL – Master Task Listing

MTP – Master Training Plan

MTT – Mobile Training Team

NCOA – Noncommissioned Officer Academy

NCOIC – Noncommissioned Officer in Charge

OAR – Occupational Analysis Report

OJT – On-the-Job Training

PMC – Professional Manager Certification

POI – Plan of Instruction

QA – Quality Assurance

QT – Qualification Training

QTP – Qualification Training Package

SDI – Special Duty Assignment

SEI – Special Equipment Identifier

SKT – Specialty Knowledge Tests

SME – Subject Matter Expert

SNCOA – Senior Noncommissioned Officer Academy

STRT – Specialty Training Requirements Team

STS – Specialty Training Standard

TBA – Training Business Area

TD – Training Detachment

TIS – Time in Service

TM – Training Manager

TO – Technical Order

TPM – Training Pipeline Manager

TR – Training Resource

U&TW – Utilization and Training Workshop

UGT – Upgrade Training

UTC – Unit Type Code

UTM – Unit Training Manager

WAPS – Weighted Airman Promotion System

SECTION A - GENERAL INFORMATION

3. Purpose. This CFETP provides the information necessary for the AFCF), MAJCOM Functional Managers (MFM), 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 Air Force Specialty (AFS) 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:

3.1. Lists training courses available in the AFS and identifies sources of training and the training delivery method.

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

4. 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.

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

4.2. MFMs will ensure their training programs complement the CFETP mandatory initial, upgrade, and proficiency requirements. On-the-Job Training (OJT), resident training, contract training, or exportable courses can satisfy the identified requirements. MAJCOM developed training to support this AFS must be identified for inclusion in this plan and must not duplicate other available training resources.

4.3. 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.

5. Coordination and Approval of the CFETP. The AFCFM is the approval authority for the CFETP.

5.1. Scheduled Reviews. The AFCFM will initiate an annual review of this document to ensure currency and accuracy. Typically this review is accomplished via correspondence and is accomplished by the AFCFM and using MFMs. Approximately every three years Specialty Training Requirements Teams (STRT) are held for functional areas (e.g. Instrument and Flight Control Systems, Backshop Avionics, Legacy Fighter, etc.). During STRTs the AFCFM, MFMs, AETC representatives, and Subject Matter Experts (SME) accomplish an in-depth review of the material to determine and present training requirements to AETC. STRTs are normally face-to-face meetings.

5.2. Out-of-Cycle Review. The AFCFM can implement out-of-cycle changes whenever necessary to address the addition of new platform, systems, changes to test equipment, etc. Career field members can provide inputs on content or change request to the AFCFM at any time via their MFM. The AFCFM will evaluate the information and (1) provide feedback on why the suggestion will not be incorporated, (2)

initiate an out of cycle change, or (3) incorporate the suggestion during the next scheduled review, whichever is appropriate.

SECTION B - CAREER PROGRESSION AND INFORMATION

6. Specialty Descriptions.

6.1. Specialty Shreds:

Suffix	Portion of the AFS to which it Relates
A.....	F-22
B.....	F-35
C.....	MQ-1, MQ-9, RQ-4

NOTE: Suffixes A, B, and C are applicable to the 1-, 3-, and 5-skill levels only.

6.2. Specialty Summary and Duties and Responsibilities. Refer to the Air Force Enlisted Classification Directory (AFECD), accessible via myPers at <https://mypers.af.mil/app/home>, search for “AFECD”, search for “AFECD”.

6.2.1. Helper, Apprentice, Journeyman, and Craftsman. Refer to “AFSC 2A375, Craftsman/AFSC 2A355*, Journeyman/AFSC 2A335*, Apprentice/AFSC 2A315*, Helper,” titled “Advanced FIGHTER AIRCRAFT INTEGRATED AVIONICS,” in AFECD Section II, for specialty summary, and duties and responsibilities.

6.2.2. Chief Enlisted Manager (CEM) and Superintendent. Refer to “CEM Code 2A300/AFSC 2A390, Superintendent,” titled “FIGHTER/REMOTELY PILOTED AIRCRAFT MAINTENANCE,” in AFECD Section II, for specialty summary and duties and responsibilities for 9-skill level and CEM personnel.

7. Skill/Career Progression. Adequate training and timely progression from the apprentice to the superintendent skill level plays 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 10.1, **Enlisted Career Path**, in conjunction with the information below to manage career skill progression.

7.1. Apprentice (3-skill level): Individuals are awarded their 3-skill level upon completion of initial skills training (technical school). At their first duty station a trainee will work with a trainer to enhance their knowledge and skills. Individuals are assigned shred identifiers for initial-skills course scheduling and assignment purposes; shred identifiers are provided in the AFECD.

7.2. Journeyman (5-skill level). Upon arrival at their first duty location, individuals must complete formal 5-level OJT training requirements as defined in this CFETP, AFI 36-2201, and the AFECD. This training involves completion of 2A355 Career Development Course (CDC) and all identified core tasks. Once upgraded to the 5-skill level, the journeyman will enter into qualification training to broaden their experience base by increasing their knowledge and skill in troubleshooting and solving more complex problems. This includes qualification on duty specific tasks identified by the work center supervisor. Available proficiency

and/or supplementary training should be completed as early as duty permits. Journeymen may be appointed as unit trainers and considered for job positions such as Quality Assurance (QA) inspector. Individuals will use their CDCs to prepare for Weighted Airman Promotion System (WAPS) testing. Air Force Enlisted Professional Military Education (EPME) is a rank-based model that ensures targeted delivery of institutional competencies across an enlisted Airman's career. Resident Airman Leadership School (ALS) meets Basic and Comprehensive Phase 1 requirements and is required to assume the rank of Staff Sergeant. In addition to completing EPME requirements, individuals should also consider continuing their education toward a Community College of the Air Force (CCAF) degree.

7.3. Craftsman (7-skill level): Once selected for promotion to Staff Sergeant, individuals begin formal 7-skill level OJT training requirements as defined in this CFETP, AFI 36-2201, and the AFECD. This training involves completion of the 2A375 and 2AX7X CDCs and all identified core tasks. Once upgraded to the 7-skill level, the craftsman will also train on any qualification or duty specific tasks identified by the work center supervisor. Available proficiency and/or supplementary training should be completed as early as duty permits. The Air Force Specialty Code (AFSC) shred is removed at the 7-skill level, at which point airframe qualifications are identified by Special Equipment Identifier (SEI) codes. SEI codes are provided in the AFECD. A craftsman can expect to fill various supervisory and management positions such as task certifier, element Noncommissioned Officer in Charge (NCOIC), flight or section chief, flightline expediter, production superintendent, and avionics manager, and can also be assigned to work in staff positions. Once selected for promotion to Staff Sergeant, Airmen should enroll in the NCO Distance Learning Course (DLC), formally known as Course 15, to meet Basic Phase 2 EPME requirements. Course 15 is a prerequisite for in-residence Noncommissioned Officer Academy (NCOA) attendance, and NCOA is required to assume the rank of Master Sergeant. In addition to completing EPME requirements, craftsmen should take courses to obtain added knowledge on management of resources and personnel whenever available and continued academic education through CCAF and higher degree programs.

7.4. Superintendent (9-skill level): Formal 9-skill level OJT training requirements are defined in AFI 36-2201 and the AFECD. A 9-skill level can be expected to fill positions such as flight chief, production supervisor, and various staff positions. Once selected for promotion to Master Sergeant, Airmen should enroll in SNCO DLC, formally known as Course 14, to satisfy the Basic Phase 3 EPME requirement. Course 14 is a prerequisite for in-residence Senior Noncommissioned Officer Academy (SNCOA) attendance, and SNCOA is required to assume the rank of Chief Master Sergeant. In addition to EPME requirements, superintendents are expected to take advantage of additional training in the areas of budget, manpower, resources, and personnel management and higher education, including advanced certification, is encouraged for professional development.

8. Training Decisions: The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Advanced Aircraft Integrated Avionics 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. The following training decisions were made by MFM's and Subject Matter Experts (SME) at the career field Specialty Training Requirements Team (STRT) 22-26 Feb 16.

8.1. Initial Skills: The STRT was tasked with reviewing the entire 2A3X5X STS. Each STS line item was evaluated based on capability and method of training, redundancy of documentation, and applicability. Occupational Analysis Report (OAR) data was used to scrub requirements to determine whether items were

suited for formal training.

8.2. Five-Skill Level Upgrade Training: Completion of 2A355 CDCs is mandatory. Upgrade requirements include completion of core tasks and identified work center requirements for their assigned weapons system and completion of MAJCOM Mandatory Course List (MMCL) requirements as necessary based on assignment. Task qualification is all that is required for upgrade; there is no career field standard for proficiency.

8.3. Seven-Skill Level Upgrade Training: Completion of the 2A375 and 2AX7X CDCs is mandatory. Upgrade requirements include completion of core tasks and identified work center requirements for their assigned weapons system and completion of MAJCOM Mandatory Course List (MMCL) requirements as necessary based on assignment. Task qualification is all that is required for upgrade; there is no career field standard for proficiency. In-residence school is not required for upgrade and there is no Advanced Distributed Learning (ADL)/Distributed Learning (DL) in development.

9. Higher Education and Advanced Certification Opportunities. Advanced certifications and other additional off-duty education is a personal choice encouraged for the professional development of the entire enlisted force.

9.1. Community College of the Air Force (CCAF) Degree Program: Enrollment in CCAF occurs automatically upon completion of Basic Military Training (BMT). Degree completion; technical education; leadership, management and military studies; physical education; general education; and program elective requirements are identified in the CCAF Catalog which can be found on the Air University (AU) site at <http://www.airuniversity.af.mil/Barnes/CCAF/>.

9.2. CCAF Academic Programs. In addition to its associate degree program, CCAF offers other credentialing programs (licensure and certification). Licensure is normally issued by federal, state, or local governmental agencies and is issued to individuals to practice in specific occupation. Certification is normally issued by non-governmental agencies, associations, schools, or industry-supported companies and are typically an optional credential. Air Force Credentialing Opportunities On-Line (AF-COOL) supports programs like Air Force Airframe and Power plant (A&P) Certification; CCAF Instructor Certification; CCAF Instructional Systems Development (ISD) Certification; Joint Service Aviation Maintenance Technician Certification Council (JSAMTCC); and Professional Manager Certification (PMC). Information on current programs is available via the Air Force Portal CCAF site at <https://www.my.af.mil/gcss-af/USAF/ep/contentView.do?contentType=EDITORIAL&contentId=c88B4F00B41D2F51E01420946721B0912&programId=t88B4F00B41D2F51E01420943DB3F0911&channelPageId=s6925EC13447C0FB5E044080020E329A9> and the Air Force Virtual Education Center (AFVEC) site at <https://www.my.af.mil/afvecprod/afvec/Home.aspx>.

9.3. AETC Instructor Requirements. AETC Instructors must possess, at a minimum, an associate degree or should be actively pursuing an associate degree. Developmental Special Duty (DSD) 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.

10. Career Field Path. Table 10.1 identifies career milestones for the 2A3X5X Air Force Specialty.

Table 10.1 Enlisted Career Path				
Education and Training Requirements	Grade Requirements			
	Rank	Earliest Sew-On <u>NOTE 1</u>	Average Sew-On <u>NOTE 2</u>	High Year Of Tenure (HYT) <u>NOTE 3</u>
Basic Military Training School				
Apprentice Initial Skills (Technical School) (3-Skill Level)	Amn	6 months	6 months	
	A1C	10 months	10 months	
Upgrade To Journeyman (5-Skill Level) <u>NOTE 4</u> - Complete appropriate CDC(s) if/when available - Complete all mandatory core tasks - Minimum 12 months in Upgrade Training (UGT); 9 months UGT for individuals in retraining status - Mandatory requirements listed in the AFECDC - Recommended by supervisor and approved by commander	SrA	36 mo. TIS & 20 mo. TIG or 28 mo. TIG	2.5 years	8 years
Airman Leadership School (ALS) <u>NOTE 5</u> - Phase 1 Basic and Comprehensive PME - Resident ALS required for promotion to SSgt				
Trainer <u>NOTE 4</u> - Attend formal OJT trainer course (AFTC) - Maintain required task qualifications	Certifier <u>NOTE 4</u> - Be at least a SSgt (E-5) with a 5-skill level - Attend formal Air Force Training Course (AFTC) - Be capable of evaluating the task being certified - Be a person other than the trainer except for certain situations defined in AFI 36-2201			
Upgrade To Craftsman (7-Skill Level) <u>NOTE 4</u> - Minimum rank of SSgt - Complete appropriate CDC(s) if/when available - Compete all mandatory core tasks - Attend 7-skill level craftsman course (if required) - Mandatory requirements listed in the AFECDC - Minimum 12 months in UGT; 6 months UGT for individuals in retraining status - Recommended by supervisor and approved by commander	SSgt	3 years	5.0 years	15 years
NCO Distance Learning Course (DLC) <u>NOTE 5</u> - Phase 2 Basic EPME; formal name is Course 15 - Airmen expected to enroll when selected for promotion to SSgt	TSgt	5 years	10.9 years	20 years
Noncommissioned Officer Academy (NCOA) - Phase 2 Comprehensive EPME - Complete and pass resident ALS (or DL for ARC) - Complete and pass EPME Phase 2 DL - Resident NCOA required for promotion to TSgt				

SNCO DLC NOTE 5 • Phase 3 Basic EPME; formal name is Course 14 • Airmen expected to enroll when selected for promotion to MSgt USAF Senior NCO Academy (SNCOA) • Phase 3 Comprehensive EPME • Complete and pass Phase 2 and 3 EPME DL (only Phase 3 for ARC) • Resident SNCOA required for promotion to CMSgt	MSgt	8 years	15.5 years	24 years
	SMSgt	11 years	19.0 years	26 years
	CMSgt	14 years	22.5 years	30 years
Upgrade To Superintendent (9-Skill Level) NOTE 4 • Minimum rank of SMSgt • Mandatory requirements listed in the AFECD • Recommended by supervisor and approved by commander				
Table data current as of April-2017. NOTE 1: Average sew-on time is determined by the 2A3X5 AFCEM. NOTE 2: Earliest sew-on information is available in the Professional Development Guide (PDG) at http://www.studyguides.af.mil/ . NOTE 3: HYT information is on the myPers site at https://mypers.af.mil/app/home , search “High Year of Tenure”. NOTE 4: Upgrade and trainer/certifier requirements are detailed in AFI 36-2201, <i>Air Force Training Program</i> , available on the Air Force e-Publishing site at http://www.e-publishing.af.mil/ . NOTE 5: EPME information is explained on the myPers site at https://mypers.af.mil/app/home , search “EPME”. The policy detailed becomes effective with the 2018 promotion cycle.				

SECTION C - SKILL LEVEL TRAINING REQUIREMENTS

11. Purpose. Skill level training requirements in this career field are defined in terms of tasks and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in broad, general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific tasks and knowledge training requirements are identified in the attached STS.

12. Specialty Qualification Requirements.

12.1. Knowledge, Education, Training, and Experience. Refer to the AFECD, accessible via myPers at <https://mypers.af.mil/app/home>, search for “AFECD”.

12.1.1. Helper, Apprentice, Journeyman, and Craftsman. Refer to “AFSC 2A375, Craftsman/AFSC 2A355*, Journeyman/AFSC 2A335*, Apprentice/AFSC 2A315*, Helper,” titled “ADVANCED FIGHTER AIRCRAFT INTEGRATED AVIONICS,” in AFECD Section II, for specialty qualification information for 1-, 3-, 5-, and 7-skill level personnel.

12.1.2. CEM and Superintendent. Refer to “CEM Code 2A300/AFSC 2A390, Superintendent,” titled “FIGHTER/REMOTELY PILOTED AIRCRAFT MAINTENANCE,” in AFECD Section II, for specialty qualification information for 9-skill level and CEM personnel.

12.2. Training Sources and Implementation.

12.2.1. Apprentice Level Training: The initial skills courses (J3AQR2A335X-0XXB and J3ABR2A335X-

0XXX) will provide the required knowledge the trainee needs at their first duty location. The training encompasses basic electronic principles, system theory and operation, system components, and component removal and installation. Trainees will use representative aircraft and/or trainers to accomplish the system specific training requirements. Additionally, the trainee will be introduced to maintenance concepts, practices and documentation, the use of technical publications, and support equipment. Unless waived by the AFCFM, the initial skills course is a requirement upon entry into the career field. Trainees are awarded a 3-skill level upon completion of the initial skills course.

12.2.2. Journeyman Level Training: Trainees enter into 5-skill level Up-Grade Training (UGT) upon arrival at their first duty station. Core and work center tasks in the trainee's Job Qualification Standard (JQS) are trained via OJT and, when mandated, MAJCOM specific courses. The 2A355 CDCs provide the required career knowledge training. The CDCs are written to build on the trainee's current knowledge base and provide more in-depth knowledge to support OJT requirements.

12.2.3. Craftsman Level Training: Trainees enter into 7-skill level UGT when selected for promotion to Staff Sergeant. Core and work center tasks in the trainee's JQS are trained via OJT and, when mandated, MAJCOM specific courses. The 2A375 CDCs provide career knowledge training. The 2AX7X CDCs provide advanced management and supervisory knowledge. NOTE: The 2AX7X CDCs are managed using a stand-alone STRT process. As a result, Attachment A is not current as of the date of this publication. It not intended to be used to identify work center requirements; it is provided so that supervisors are aware of the proficiency levels trainees should possess when complete and to highlight the training references that were used to develop the CDCs.

12.2.4. Superintendent Level Training: The 9-skill level is awarded upon promotion to Senior Master Sergeant. When necessary, unit OJT is used for training. In addition to 7-skill level qualifications, an individual must possess advanced skills and knowledge of concepts and principles in the management of aircraft maintenance. The 9-skill level needs to be an effective leader; must be able to forecast, budget, and manage funds and other resources to include manning; must be knowledgeable of federal and local environmental standards; and must ensure adherence to the proper handling and disposal of hazardous materials.

SECTION D - RESOURCE CONSTRAINTS

13. 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.

14. Apprentice Level Training. Students initially attend the F-35 iGap apprentice course (J3AQR2A335B-028B) at Sheppard AFB, TX. After completion of the iGap course, students attend the F-35 Avionics Fundamentals apprentice course (J3ABP2A335-028B) managed by Lockheed-Martin at Eglin AFB, FL. The F-35 Avionics Fundamentals apprentice course has 98 tasks with training constraints due to limited capability in the desk top trainer. AETC has identified the requirements to Lockheed-Martin and is waiting for the contractor to incorporate them into the course (OPR 365 TRS/TRR). There is no estimated delivery

date at the time of publication. Until the requirements are incorporated, students will learn these fundamentals via OJT (proficiency code ‘-’) as opposed to knowing the procedures (proficiency code ‘b’); knowing the procedures and being able to do simple parts of the task (proficiency code ‘1b’); or knowing the procedures and being partially proficient on the equipment (proficiency code ‘2b’).

15. Journeyman Level Training. No resource constraints identified.

16. Craftsman Level Training. No resource constraints identified.

SECTION E – TRANSITIONAL TRAINING GUIDE

17. There is currently no transitional training requirements. This area is reserved.

PART II

SECTION A - SPECIALTY TRAINING STANDARD (STS)

1. Implementation: The STS will be used for technical training provided by AETC for classes beginning FY17; Avionic Fundamental will begin 6 Oct 17 and Follow-On courses will begin 5 Dec 17. The STS is organized in attachments to this document for “General” training requirements (applicable to all systems) and individual attachments for each Mission Design Series (MDS) and off equipment systems.

1.1. Wartime Requirements. When necessary, the AFCFM can direct expedited training to support wartime requirements. If implemented, all task and knowledge taught in the initial skills courses will continue to be taught in the wartime initial skills courses, the training timeline will just be compressed as able. For example, if a course was currently being taught 5 days a week on day-shift, the wartime course would provide the same training to trainees, but might be taught 6 days a week on day-, swing-, and mid-shift.

2. Documentation: As prescribed in AFI 36-2201, *Air Force Training Program*, (refer to applicable attachments):

2.1. Column 1 (Task, Knowledge, and Technical References): The most common tasks, knowledge, and Technical References (TR) necessary for Airmen to perform duties in the 3-, 5-, and 7-skill level. Not all tasks apply to every work center.

2.1.1. It is the work center supervisor’s job to identify work center requirements and build a Master Training Plan (MTP) to train assigned trainees to the requirements. Individual JQS’ should be tailored to the trainees’ skill level and duty position.

2.1.2. For OJT, the tasks in column 1 are trained and qualified to the go/no go level (3c). “Go” means the individual can perform the task without assistance and meets local requirements for accuracy, timeliness, and correct procedures.

2.1.3. Unless mandated by another source (e.g. engine run currency requirements in AFI 21-101), there is no career field standard for proficiency. Once a trainee is qualified on a task, she or he remains qualified unless de-certified IAW AFI 36-2201.

2.2. Column 2 (Core Tasks): Tasks identified with an asterisk (*) are specialty-wide training requirements. Certification on all shop/flight line core tasks must be completed for skill level upgrade.

2.2.1. Trainees are only required to qualify on core tasks applicable to their assigned aircraft or systems; i.e. if the STS lists two separate Heads Up Display (HUD) systems, and the operational check for both is identified as a core task, the trainee only has to qualify on the HUD system installed on the aircraft assigned at the trainees locations.

2.2.2. When a base has multiple MDS or EW systems assigned, trainees are only required to complete core task training on the MDS or EW systems assigned to their unit.

2.2.3. 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.)

2.2.4. Core tasks identified with *R are optional for Air Force Reserve Command (AFRC) and Air National Guard (ANG) traditional personnel. Full time personnel are required to qualify on all identified core tasks.

2.3. Column 3 (Certification for OJT): Used to record completion of tasks and knowledge training requirements. If available, use an automated training management systems to document technician qualifications. Task certification must show a certification/completion date.

2.4. Column 4 (Proficiency Codes Used To Indicate Training/Information Provided): Identifies the proficiency a trainee should be able to demonstrate on the job after completing formal training or a CDC. Attachment 1 contains the proficiency code key.

2.4.1. Column 4A items marked with both a proficiency code and a caret (Ex: A^) will be taught in Avionics Fundamentals.

2.4.2. Column 4A identifies the established task and/or knowledge requirement for in-residence training. When two codes are used in column 4A (e.g., 2b/b), the second code indicates the level of training provided in the course due to equipment shortages or other resource constraints.

2.4.3. Columns 4B and 4C identify the established knowledge requirement for CDCs. See the Unit Training Manager (UTM) for current CDC listing.

3. Job Qualification Standard (JQS): The STS becomes a JQS for OJT when placed in Training Business Area (TBA) or AF Form 623, *On-The-Job Training Record*, and used according to AFI 36-2201. When used as a JQS, the following requirements apply:

3.1. Document and certify completion of training IAW AFI 36-2201. Load the tasks into TBA as a JQS and add them to the applicable Individual Training Plan (ITP).

3.2. All AFJQSs and previous CFETPs are replaced by this CFETP; therefore, transcribing of all training records to this CFETP STS is mandatory. Use the 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.

4. Specialty Knowledge Tests (SKT). The STS serves as a guide for development of promotion tests used in WAPS. SKTs are developed at the USAF Occupational Measurement Squadron, by SNCOs with extensive practical experience in their career field. 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/Demotion Programs*. WAPS is not applicable to the AFRC or ANG.

SECTION B – COURSE OBJECTIVE LIST (COL)

5. Initial skills training is not designed to result in a mission ready technician. When evaluating course graduates, supervisors should use column 4A of the STS as a guide. Review column 4A to determine the proficiency level of a particular task or knowledge item. Review attachment 1 of this CFETP for an explanation of the proficiency codes. Then compare the proficiency of the trainee to the proficiency expected upon completion of the course. NOTE: 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.

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

SECTION C - SUPPORT MATERIAL.

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

SECTION D - TRAINING COURSE INDEX.

8. Purpose. This index lists mandatory formal training including Air Force in-residence, field, Air Force Career Development Academy (AFCDA), and exportable courses used to support training for this specialty.

9. Air Force In-Resident Courses.

COURSE NO. NOTE 1	COURSE TITLE	LOCATION	USER
J3AQR2A335X-0XXB NOTE 2	Avionics Fundamentals (AvF) NOTE 3	Sheppard AFB	AF
J3ABR2A335A-027C	F-22 Integrated Avionic Systems	Sheppard AFB	AF
J3ABR2A335B-028B	F-35 iGap Course	Sheppard AFB	AF
J3ABP2A335B-028B	F-35 Avionics Fundamentals	Eglin AFB	AF
J3ABR2A335C-051D	RPA Integrated Avionic Systems	Sheppard AFB	AF

NOTE 1: For information on the AETC formal courses listed, refer to Education and Training Course Announcements at <https://etca.randolph.af.mil/>.

NOTE 2: In the course announcement, the course number listed above are followed by the current revision number, e.g. the most current Avionics Fundamentals course at the time the CFETP was published was J3AQR2A335X-0XXB; a year from now the most current revision might be J3AQR2A335X-0XXD

NOTE 3: All shreds attend the same AvF course but the course number is different depending on his or her

shred; e.g. for 2A33B Airmen the AvF course number is J3AQR2A335B-025B; for 2A335C Airmen the AvF course number is J3AQR2A335C-051B.

10. Air Force Career Development Academy (AFCDA) Courses. AU/A4L is responsible for managing the CDC program. Their website is <http://www.au.af.mil/au/afiadl/>. The 2A355X and 2A375 CDCs are managed by the Aircraft Avionics AFCFM and updates and managed as part of the Advanced Fighter STRT. The 2AX7X CDCs are managed by the Aircraft Systems AFCFM and updates are managed via a stand-alone STRT.

COURSE NO.	COURSE TITLE	USER
CDC 2A355	Advanced Integrated Avionic Systems Journeyman	AF
CDC 2A355A	F-22 Advanced Integrated Avionic Systems Journeyman	AF
CDC 2A355C	Remote Piloted Aircraft MQ-1, MQ-9, and RQ-4 Advanced Integrated Avionic Systems Journeyman	AF
CDC 2A375	F-22/MQ-1/MQ-9/RQ-4 Advanced Integrated Avionic Systems Craftsman	AF
CDC 2AX7X	Aerospace Maintenance Craftsman	AF

11. Interactive Courseware (ICW). Interactive courses (not always applicable) are available via “The Griffin” website at <https://367trss.hill.af.mil/>. OPR contact information is as follows:

365 TRSS	982 MXS/LGMS
6058 Aspen Avenue	Instructional Technology Unit
Hill AFB, UT 84056-5805	912 I Avenue, Suite 4
DSN 777-7830/8741	Sheppard AFB, TX 76311-2334
	DSN 736-3834

SECTION E - MAJCOM UNIQUE REQUIREMENTS.

12. The MMCLs identify mandatory maintenance training requirements for initial skills (technical school) graduates, retrainees, and personnel with no experience on assigned MDS or EW systems. They also ensure maintenance personnel receive training commensurate to their current duty position. The AFRC and ANG do not publish MMCLs and their personnel are not subject to their requirements. All other commands publish an MMCL as appropriate and have decision authority with regard to which MAJCOM personnel the MMCL applies to; e.g., whether AMC personnel assigned to a Total Force Squadron in New Hampshire are subject to AMC's MMCL is up to AMC. All MMCL courses will be identified as a priority on the AF Form 898. Contact your UTM for the most current version of your MAJCOM's MMCL.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

JOHN B. COOPER
Lieutenant General, USAF
DCS/Logistics, Engineering & Force Protection

8 Attachments

1. Proficiency Code Key (Mandatory)
2. General Training Requirements (Mandatory)
3. F-22 Training Requirements (Mandatory for F-22 Personnel)
4. MQ-1 Training Requirements (Mandatory for MQ-1 Personnel)
5. RQ-4 Training Requirements (Mandatory for RQ-4 Personnel)
6. MQ-9 Training Requirements (Mandatory for MQ-9 Personnel)
7. F-35 Training Requirements (Mandatory for F-35 Personnel)
- A. 2AX7X Aerospace Maintenance Craftsman (Mandatory for 7-Skill Levels and Personnel in 7-Skill Level Upgrade)

NOTE: Use of at least one of attachments three through six is required.

Attachment 1

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

QUALITATIVE REQUIREMENTS

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

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 (ex. 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 identify what tasks are taught in Avionics Fundamentals (ex. A^).
 - / This mark is used in course columns to show training requirements not met due to limitations in resources (3c/b, 2/b/b, 3c/-, etc.). The first code is the training requirement and the second code indicates the level of training provided due to equipment shortages or other resource constraints.
- NOTE: All tasks and knowledge items shown with a proficiency or knowledge code are trained during wartime.

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
Attachment 2 – General Training Requirements. NOTE 1 Proficiency codes in column 4A identify the task/knowledge requirement for resident training. When two codes are used (e.g., 2b/b), the second code indicates the level of training provided in the course due to equipment shortages or other constraints; dash (e.g., 2b/-) indicates the item will not be trained until the constraint is eliminated. NOTE 2 Items marked in Column 4A with both a proficiency code and a caret will be taught in Avionics Fundamentals (Ex: A^). NOTE 3 F-35 personnel will be trained on Task 2.13.7.9 at the AFSC awarding course at Eglin AFB, FL.										
2 F-22 / F-35 / MQ-1 / RQ-4 / MQ-9 GENERAL TASKS										
2.1 CAREER LADDER PROGRESSION TR: AFI 36-2201, AFI 36-2101, AFECD (myPers), CFETP Part I										
2.1.1 Progression in Career Ladder								-	A	B
2.1.2 Duties and Responsibilities of 3 / 5 / 7-Level Personnel								A^	-	-
2.2 SAFETY TR: AFI 91-Series / 31-Series TOs / 33-Series TOs										
2.2.1 Safety Practices and the AF Occupational Safety & Health (AFOSH) Program Used in Avionic Career Fields								B^	-	-
2.2.2 Basic First Aid								-	-	-
2.2.3 Electrostatic Discharge (ESD) Control								-	-	-
2.2.4 Electromagnetic Effects (Electromagnetic Pulse (EMP) / Electromagnetic Interference (EMI))								-	-	-
2.2.5 Radio Frequency (RF) Energy Hazards								-	-	-
2.2.6 Noise								-	-	-
2.2.7 Compressed Gases								-	-	-
2.2.8 Electrical Power Hazards								-	-	-
2.2.9 Hydraulic Power								-	-	-
2.2.10 Electrical Equipment								-	-	-
2.2.11 Hazardous Liquids								-	-	-
2.2.12 Radioactive Parts and Materials								-	-	-
2.2.13 Aircraft								-	-	-
2.2.14 Air Ground Equipment (AGE)								-	-	-
2.2.15 Beryllium / Copper Alloys								-	-	-
2.2.16 Lasers								-	-	-
2.2.17 Composites								-	-	-
2.2.18 Foreign Object and Debris (FOD) Prevention								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.2.19 AF Nuclear Surety Program								-	-	-
2.2.20 Fall Protection / Restraints								-	-	-
2.2.21 Operational Risk Management								-	-	-
2.2.22 Lifting Devices								-	-	-
2.2.23 Heavy Lifting								-	-	-
2.2.24 Inspect and Use Fire Extinguisher								-	-	-
2.2.25 Electro Explosive Devices / Cartridges								-	A	-
2.3 HAZARDOUS MATERIALS and WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS TR: Applicable Command Directives										
2.3.1 Types of Hazardous Materials / Fluids								-	-	-
2.3.2 Handling Procedures								-	-	-
2.3.3 Storage and Labeling Procedures								-	-	-
2.3.4 Proper Disposal								-	-	-
2.3.5 Waste minimization								-	-	-
2.3.6 Safety Data Sheets								B^	-	-
2.3.7 Report Hazardous Material Spills								-	-	-
2.3.8 Hazardous Materials and Waste Handling Procedures								A^	-	-
2.4 MAINTENANCE MANAGEMENT TR: AFI 21-101, Applicable Command Directives										
2.4.1 Basic Functions and Responsibilities of Maintenance Complex								-	A	-
2.4.2 Maintenance Resource Management (Human Factors)								A^	-	-
2.4.3 Maintenance Accountability								-	A	-
2.4.4 Logistics / Resource Maintenance Management										
2.4.4.1 Logistics Management								-	-	-
2.4.4.2 Asset Management								-	-	-
2.4.4.3 Product Improvement Working Group / Test Planning Working Group / System Training Plan / Product Improvement Review / Program Management Reviews								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.4.4.4 Source Maintenance Recoverability (SMR) Codes								-	-	-
2.4.4.5 Aircraft / Equipment Status Monitoring								-	-	-
2.4.4.6 Maintenance Performance Indicators (MPI) Relationships (Repeat / Recur, Fix, Break, Cannibalization Rates, etc.)								-	-	-
2.4.4.7 FOD Program Manager								-	-	-
2.4.4.8 Hazard Declarations								-	-	-
2.4.4.9 Maintenance Incident Investigation and Prevention								-	-	-
2.4.4.10 Minimum Essential Systems Lists (MESL)								-	-	-
2.4.4.11 Warranty Program								-	-	-
2.4.4.12 Repair Cycle Assessment Program								-	-	-
2.4.4.13 Status of Reports and Training (SORTS)								-	-	-
2.4.4.14 Standard Configuration Load (SCL)								-	-	-
2.4.4.15 Unit Self Assessments								-	-	-
2.4.4.16 Mobility								-	-	-
2.4.4.17 Maintenance Incident Investigation and Prevention								-	-	-
2.4.4.18 Processing and controlling material								-	A	-
2.4.5 Personnel Duties / Responsibilities										
2.4.5.1 Expediter								-	A	-
2.4.5.2 Production Supervisor								-	A	-
2.4.5.3 Flight Chief								-	A	-
2.4.5.4 Debriefing										
2.4.5.4.1 Debrief Pilots								-	-	-
2.4.5.4.2 Maintain Debriefing Forms								-	-	-
2.4.5.4.3 Use Automated Data Systems								-	-	-
2.5 SUPERVISION										
TR: Applicable Command Directives										
2.5.1 Orient New Personnel								-	-	-
2.5.2 Assign Personnel to Work Assignments								-	-	-
2.5.3 Plan Work Assignments and Priorities								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.5.4 Schedule Work Assignments and Priorities								-	-	-
2.5.5 Evaluate Work Performance of Subordinate Personnel								-	-	-
2.5.6 Supervise Maintenance Actions								-	-	-
2.5.7 Perform Reports of Survey								-	-	-
2.5.8 Perform Self-assessments								-	-	-
2.6 TRAINING TR: Applicable Command Directives										
2.6.1 Evaluate Effectiveness of Training Programs								-	-	-
2.6.2 Maintain Training Records								-	-	-
2.6.3 Prepare Workcenter Job Quality Standard (WJQS)								-	-	-
2.6.4 Evaluate / Recommend / Determine Training Requirements								-	-	-
2.6.5 Plan / Supervise On the Job Training (OJT)								-	-	-
2.6.6 Training Documents								-	-	-
2.6.6.1 Career Field Education and Training Plan (CFETP)								-	-	-
2.6.6.2 Specialty Training Standard (STS)								-	-	-
2.6.6.3 Occupational Analysis Report (OAR)								-	-	-
2.6.7 Specialty Training Requirements Team (STRT) / Utilization and Training Workshop (U&TW)								-	-	-
2.7 TECHNICAL PUBLICATIONS TR: Applicable Command Directives										
2.7.1 Scope and Application of Hard Copy / Electronic Technical Order (TO) System								A^	A	-
2.7.2 TO Management								-	-	-
2.7.3 TO Indexes								-	-	-
2.7.4 Follow TOs to Perform Maintenance	*							2b	-	-
2.7.5 Technical Manual (TM) Change Recommendation and Reply (AFTO Form 22)	*							A^	A	A
2.7.6 Scope and Application of Computer Program Identification Number (CPIN) System								A^	-	-
2.7.7 CPIN Compendium								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.7.8 Maintain TO Files								-	-	-
2.7.9 Time Compliance Technical Orders (TCTO)								-	A	-
2.7.10 Wiring Diagrams								A	-	-
2.8 AVIONICS SUPPORT SUBJECTS TR: Applicable Command Directives										
2.8.1 Metric Notation										
2.8.1.1 Powers of Ten								B^	-	-
2.8.1.2 Electrical Prefixes								B^	-	-
2.8.1.3 Digital Numbering Systems								A^	-	-
2.8.2 Test Equipment										
2.8.2.1 Demonstrate Proper Use of Digital Multimeter								2b^	-	-
2.8.3 Basic Electricity										
2.8.3.1 Direct Current (DC) Principles								B^	-	-
2.8.3.2 Alternating Current (AC) Principles								B^	-	-
2.8.4 Resistance										
2.8.4.1 Theory of Resistance								B^	-	-
2.8.4.2 Measure Resistance								2b^	-	-
2.8.4.3 Capacitance Theory								B^	-	-
2.8.4.4 Inductance Theory								B^	-	-
2.8.5 Electromagnetic Devices										
2.8.5.1 Transformers Principles								B^	-	-
2.8.6 Relays and Solenoids										
2.8.6.1 Theory								B^	-	-
2.8.6.2 Troubleshoot Relay								2b^	-	-
2.8.7 Motor Theory										
2.8.7.1 AC / DC Motor Theory								A^	-	-
2.8.8 Generator Theory										
2.8.8.1 AC / DC Generator Theory								A^	-	-
2.8.8.2 Synchro / Servo Principles								B^	-	-
2.8.8.3 Transducer Principles								B^	-	-
2.8.9 Solid State Devices										
2.8.9.1 Solid State Device Theory								A^	-	-
2.8.9.2 Diodes (LED, Zener, etc.)								A^	-	-
2.8.9.3 Integrated Circuits								A^	-	-
2.8.9.4 Operational Amplifiers								A^	-	-
2.8.10 Power Supply Circuits										
2.8.10.1 Power Supply Theory								B^	-	-
2.8.11 Wave Generating Circuits										
2.8.11.1 Wave Generating Circuit Theory								A^	-	-
2.8.12 Digital Logic Circuits										

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.8.12.1 Digital Logic Theory								A^	-	-
2.8.12.2 Gates								A^	-	-
2.8.12.3 Flip Flops								A^	-	-
2.8.12.4 Digital to Analog / Analog to Digital Converters								A^	-	-
2.8.13 Basic Computer & Network Fundamentals										
2.8.13.1 Basic Computer and Network Fundamentals Theory								B^	-	-
2.8.13.2 Network Components								B^	-	-
2.8.13.3 Protocols								B^	-	-
2.8.13.4 Topologies (Architecture)								B^	-	-
2.8.14 Basic Communications										
2.8.14.1 Radio Frequency Theory								A^	-	-
2.8.14.2 Frequency Spectrum								A^	-	-
2.8.14.3 Modulation (AM / FM)								A^	-	-
2.8.14.4 Demodulation (AM / FM)								A^	-	-
2.8.14.5 Receivers / Transmitters								A^	-	-
2.8.14.6 Transmission Mediums Theory								A^	-	-
2.8.14.7 Waveguides								A^	-	-
2.8.14.8 Data Buses								A^	-	-
2.8.14.9 Fiber Optics								A^	-	-
2.8.14.10 Coaxial Cables								A^	-	-
2.8.14.11 Antennas								A^	-	-
2.9 FUNDAMENTALS OF ON- EQUIPMENT MAINTENANCE TR: Applicable TOs/General Vehicle (GV) Manual										
2.9.1 Consolidated Tool Kit (CTK)										
2.9.1.1 Inventory and Inspect CTKs	*							2b^	b	-
2.9.1.2 Demonstrate Proper Use of Common Tools								2b^	-	-
2.9.1.3 Demonstrate Proper Use of Torque Indicating Devices	*							2b^	-	-
2.9.1.4 Special Purpose Tools								-	-	-
2.9.1.5 Protection Procedures when Handling Electrostatic Sensitive Devices								B^	A	-
2.9.1.6 Identify and Perform Corrosion Control								a^	b	-
2.9.1.7 Tool Accountability Program								-	-	-
2.9.1.8 Lost Tool Report								-	-	-
2.9.2 Demonstrate Proper Use of Safeing Devices										
2.9.2.1 Safety Wire								2b^	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.10 WIRE MAINTENANCE TR: Applicable Command Directives										
2.10.1 Demonstrate										
2.10.1.1 Wire Stripping								-	-	-
2.10.1.2 Environmental Splicing								-	-	-
2.10.1.3 Bundling								-	-	-
2.10.1.4 Strain Relief								-	-	-
2.10.1.5 Continuity Checks								-	-	-
2.10.1.6 Wire Repair								-	-	-
2.10.1.7 Video Splicing								-	-	-
2.10.2 Assemble Solder-Type Connections										
2.10.2.1 Terminal Connection								2b^	-	-
2.10.2.2 Multipin Connector								2b^	-	-
2.10.2.3 Coaxial Connector								2b^	-	-
2.10.2.4 Perform Desolder Procedures								2b^	-	-
2.10.3 Assemble Solderless-Type Connections										
2.10.3.1 Coaxial Connector								2b^	-	-
2.10.3.2 Multipin Connector								2b^	-	-
2.10.3.3 Twin-Axial Connector (Data Bus)								2b^	-	-
2.10.4 Miscellaneous										
2.10.4.1 Crimp Terminal Lugs								2b^	-	-
2.10.4.2 Crimp Wire Splice								2b^	-	-
2.10.4.3 Assemble Shield Termination								2b^	-	-
2.10.5 Use Wire Repair Kit(s)								2b	-	-
2.10.6 Use Heat Gun								-	-	-
2.10.7 Aircraft Wiring/Connectors										
2.10.7.1 Troubleshoot	*							2b	-	-
2.10.7.2 Repair	*							-	b	-
2.10.7.3 Replace	*							-	-	-
2.10.7.4 Inspect	*							2b	-	-
2.10.7.5 Wire Lacing								-	-	-
2.10.8 RF / Video Cables / Connectors										
2.10.8.1 Troubleshoot	*							2b	b	-
2.10.8.2 Replace Connector								-	-	-
2.10.8.3 Replace Cable Assembly								-	-	-
2.10.8.4 Inspect								-	-	-
2.10.8.5 Repair Principles								B	B	-
2.10.8.6 Inspection Principles	*							B	B	-
2.10.9 Multi Pin Connectors										
2.10.9.1 Repair	*							-	b	-
2.10.9.2 Replace								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.10.9.3 Inspection Principles	*							B	B	-
2.10.10 Wafers										
2.10.10.1 Replace								-	-	-
2.10.10.2 Repair Principles								-	B	-
2.10.10.3 Inspection Principles								B	B	-
2.10.11 Waveguides										
2.10.11.1 Remove								-	-	-
2.10.11.2 Install								-	-	-
2.10.11.3 Inspect								-	B	-
2.10.12 Fiber optic cable / connectors										
2.10.12.1 Functions								A	B	-
2.10.12.2 Inspection	*							-	B	-
2.10.12.3 Cleaning	*							-	B	-
2.10.12.4 Troubleshoot	*							-	-	-
2.10.12.5 Replace								-	-	-
2.10.12.6 Test Fiber Path								1a	-	-
2.10.12.7 Use Fiber Optic repair kit								-	-	-
2.11 GENERAL MAINTENANCE PRACTICES TR: Applicable Command Directives										
2.11.1 Assemble Multipin Connector Harness								2b^	-	-
2.11.2 Secure Cable Harness								2b^	-	-
2.11.3 Troubleshooting Procedures										
2.11.3.1 Isolate Wire Open								2b^	-	-
2.11.3.2 Isolate Wire Short								2b^	-	-
2.11.3.3 Isolate Voltage Fault on Multipin Connector Harness								2b^	-	-
2.11.3.4 Isolate Crossed Connection on Multipin Connector Harness								2b^	-	-
2.11.4 Network / Data Bus Maintenance Practices										
2.11.4.1 Local Area Networks								-	-	-
2.11.4.2 MIL-STD-1553								-	-	-
2.11.5 Computer Usage										
2.11.5.1 Application Use								-	-	-
2.11.5.2 Hardware								-	-	-
2.11.5.3 Operating Systems								-	-	-
2.12 SECURITY TR: Applicable Command Directives										
2.12.1 Information Security										
2.12.1.1 Classification of Information								-	-	-
2.12.2 Physical Security										
2.12.2.1 Control of Restricted Areas								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.12.2.2 Security Alert Reporting								-	-	-
2.12.2.3 Cabinet, Safe, and Room Security Forms								-	-	-
2.12.2.4 Proper Handling of Classified Materials / Controlled Cryptographic Items (CCI)								-	-	-
2.12.3 Communications Security (COMSEC)										
2.12.3.1 Use MAJCOM / SOA Essential Elements of Friendly Information (EEFI)s								-	-	-
2.12.3.2 Observe Security Precautions Involved in Communications								-	-	-
2.12.3.3 Levels of classification								-	-	-
2.12.4 Operations Security (OPSEC)										
2.12.4.1 Definition of OPSEC								-	-	-
2.12.4.2 History of OPSEC								-	-	-
2.12.4.3 Relationship of OPSEC to other programs such as COMSEC, Information Security, and physical security								-	-	-
2.12.4.4 Common OPSEC vulnerabilities								-	-	-
2.12.4.5 OPSEC significance of unclassified data								-	-	-
2.12.4.6 Specific Vulnerabilities of AFSC 2A3X5								-	-	-
2.12.4.7 Physical Security of Resources								-	-	-
2.12.4.8 Cyber Security								-	-	-
2.13 MAINTENANCE INSPECTION SYSTEMS & FORMS TR: Applicable Command Directives										
2.13.1 Purpose of the Maintenance Information System (MIS)								A^	-	-
2.13.2 Aircraft Inspection Systems								-	A	-
2.13.3 Identify Historical Records								-	-	-
2.13.4 Identify Status Reports								-	-	-
2.13.5 Configuration Management (Aircraft / Equipment Records)								-	-	-
2.13.6 Job Data Documentation (JDD)								-	-	-
2.13.7 Operate Applicable MIS (IMIS, IMDS, GO81, ECSS, ALIS)										
2.13.7.1 Create Discrepancy								-	-	-
2.13.7.2 Schedule Discrepancy								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.13.7.3 Defer Discrepancy								-	-	-
2.13.7.4 Transfer Discrepancy								-	-	-
2.13.7.5 Sign-Off Discrepancy								-	-	-
2.13.7.6 Supply Transactions								-	-	-
2.13.7.7 Maintenance / Supervision Transactions								-	-	-
2.13.7.8 Order Aircraft Parts								-	-	-
2.13.7.9 Enter Maintenance Transactions								2b	-	-
2.13.8 Joint Deficiency Reporting System										
2.13.8.1 Purpose of Joint Deficiency Reporting System								-	A	-
2.13.8.2 Complete Deficiency Reports	*							-	-	-
2.13.8.3 Report Software Deficiencies								-	-	-
2.13.9 Aircraft / Equipment Maintenance Forms										
2.13.9.1 Maintenance Data Collection Forms								-	-	-
2.13.9.2 Complete Maintenance Data Collection Forms										
2.13.9.2.1 AFTO Form 244 / 245								-	-	-
2.13.9.2.2 AF Form 1492 - Warning Tags								-	-	-
2.14 SUPPLY DISCIPLINE TR: Applicable Command Directives										
2.14.1 Property Accountability and Responsibility								A^	A	-
2.14.2 Principles of Equipment Authorization and Management								-	-	-
2.14.3 Document AFTO Form 350	*							2b	b	-
2.14.4 Back Order Verification								-	-	-
2.14.5 Document Equipment Condition Tags	*							2b^	b	-
2.14.6 Document AF Form 2005	*							-	-	-
2.14.7 Maintenance Supply Concepts								A	A	-
2.14.8 Supply Documents Management								-	A	-
2.14.9 Equipment Account Management								-	-	A
2.14.10 Priority System								-	-	-
2.14.11 Classified Asset Handling								-	A	-
2.14.12 Wireless Communication Devices								-	-	-
2.14.13 Depot Level Repair								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.14.14 Repair Cycle Assets								-	-	-
2.14.15 Use Standard Base Supply System (SBSS)								-	-	-
2.14.16 Use Fed Log								-	-	-
2.14.17 Supply Products										
2.14.17.1 D04 (Daily Document Register)								-	-	-
2.14.17.2 D18 (Priority Monitor List)								-	-	-
2.14.17.3 M30 (Due-Out Validation Listing)								-	-	-
2.14.18 Supply Functions										
2.14.18.1 Due in From Maintenance (DIFM) monitor								-	-	-
2.14.18.2 Order parts from supply	*							-	-	-
2.15 AIRCRAFT FAMILIARIZATION TR: Applicable Aircraft TOs/General System (GS)/General Vehicle (GV) Manuals										
2.15.1 Major Structural Areas								A	-	-
2.15.2 Major Systems								A	-	-
2.15.3 Danger Areas								B	-	-
2.15.4 Egress System										
2.15.4.1 Operate Canopy								-	-	-
2.15.4.2 Seat Adjustment								-	-	-
2.15.4.3 Install Safety Pins								-	-	-
2.15.4.4 Remove Safety Pins								-	-	-
2.15.5 Launch / Recover Aircraft										
2.15.5.1 Assist Launch / Dispatch Aircraft (B-man)								-	-	-
2.15.5.2 Assist Recover / Return Aircraft (B-man)								-	-	-
2.15.6 Powered AGE										
2.15.6.1 Bleed Air Cart										
2.15.6.1.1 Perform Pre-use Inspection								-	-	-
2.15.6.1.2 Use								-	-	-
2.15.6.2 Heaters and Blowers										
2.15.6.2.1 Perform Pre-use Inspection								-	-	-
2.15.6.2.2 Use								-	-	-
2.15.6.3 Air Conditioning Units / PAO										
2.15.6.3.1 Perform Pre-use Inspection								-	-	-
2.15.6.3.2 Use								-	-	-
2.15.6.4 Portable Light Equipment										
2.15.6.4.1 Perform Pre-use Inspection								-	-	-
2.15.6.4.2 Use								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.15.6.5 Air Compressors										
2.15.6.5.1 Perform Pre-use Inspection								-	-	-
2.15.6.5.2 Use								-	-	-
2.15.6.6 External Electrical Power Generators										
2.15.6.6.1 Perform Pre-use Inspection								-	-	-
2.15.6.6.2 Use								-	-	-
2.15.6.7 Hydraulic Test Stand										
2.15.6.7.1 Perform Pre-use Inspection								-	-	-
2.15.6.7.2 Use								-	-	-
2.15.6.7.3 Bleed								-	-	-
2.15.6.8 Nitrogen Servicing Equipment										
2.15.6.8.1 Perform Pre-use Inspection								-	-	-
2.15.6.8.2 Use								-	-	-
2.15.6.9 Hydraulic Servicing Cart										
2.15.6.9.1 Perform Pre-use Inspection								-	-	-
2.15.6.9.2 Use								-	-	-
2.15.6.10 Oil Servicing Cart										
2.15.6.10.1 Perform Pre-use Inspection								-	-	-
2.15.6.10.2 Use								-	-	-
2.15.6.11 Centerline Stores Loader										
2.15.6.11.1 Perform Pre-use Inspection								-	-	-
2.15.6.11.2 Use								-	-	-
2.15.6.12 Centerline Scissor Jack										
2.15.6.12.1 Perform Pre-use Inspection								-	-	-
2.15.6.12.2 Use								-	-	-
2.15.6.13 Bomb Lift Truck										
2.15.6.13.1 Perform Pre-use Inspection								-	-	-
2.15.6.13.2 Use								-	-	-
2.15.7 Use Non-Powered AGE										
2.15.7.1 Maintenance Platform (B-1)								-	-	-
2.15.7.2 Maintenance Platform (B-2)								-	-	-
2.15.7.3 Maintenance Platform (B-4)								-	-	-
2.15.7.4 Maintenance Platform (B-5)								-	-	-
2.15.7.5 Maintenance Platform (B-6)								-	-	-
2.15.7.6 Maintenance Platform (B-7)								-	-	-
2.15.7.7 Maintenance Platform (C-1)								-	-	-
2.15.7.8 Aircraft Jacks										
2.15.7.8.1 Perform Pre-use Inspection								-	-	-
2.15.7.8.2 Use								-	-	-
2.15.7.9 Cranes										
2.15.7.9.1 Perform Pre-use Inspection								-	-	-
2.15.7.9.2 Use								-	-	-
2.15.8 Tow Aircraft										

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.15.8.1 Wing / Tail Walker								-	-	-
2.15.8.2 Aircraft Brake Operator								-	-	-
2.15.8.3 Tow Team Supervisor								-	-	-
2.15.9 Aircraft General										
2.15.9.1 Clean Aircraft								-	-	-
2.15.9.2 Jack and Level Aircraft										
2.15.9.2.1 Jacking Team Member								-	-	-
2.15.9.2.2 Jacking Supervisor								-	-	-
2.15.9.3 Marshall Aircraft								-	-	-
2.15.9.4 Moor Aircraft								-	-	-
2.15.9.5 Concurrent Servicing Operation								-	-	-
2.15.9.6 Weight and balance functions								-	-	-
2.16 FUNDAMENTALS OF AVIONICS SYSTEMS MAINTENANCE TR: Applicable Aircraft TOs/General System (GS)/General Vehicle (GV) Manuals										
2.16.1 Source of EMI										
2.16.1.1 Identification								B^	-	-
2.16.1.2 Elimination								-	-	-
2.16.2 Source of Radio Frequency Interference (RFI)										
2.16.2.1 Identification								-	-	-
2.16.3 Remove and Install Components NOTE: Qualification in line items 2.16.3.1 through 2.16.3.18 qualifies the individual on all similar system components unless identified separately in the specific system or in writing by the supervisor.										
2.16.3.1 Shock Mounted Components	*							-	-	-
2.16.3.2 Tray Mounted Components	*							-	-	-
2.16.3.3 Rack Mounted Components								-	-	-
2.16.3.4 Console Mounted Components	*							-	-	-
2.16.3.5 Aircraft Surface Mounted Components	*							-	-	-
2.16.3.6 Clamp Mounted Components	*							-	-	-
2.16.3.7 Bezel Mounted Components								-	-	-
2.16.3.8 Latch Mounted Components								-	-	-
2.16.3.9 Bulkhead Mounted	*							-	-	-
2.16.3.10 Equipment Mounted	*							-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.16.3.11 Minor Parts and Hardware (i.e. relays, switches, bulbs, circuit breakers)								-	-	-
2.16.3.12 Chassis Mounted								-	-	-
2.16.3.13 Instrument Panel Mounted Actuator	*							-	-	-
2.16.3.14 Liquid Cooled Line Replaceable Units (LRU)	*							-	-	-
2.16.3.15 Line Replaceable Modules (LRM)	*							-	-	-
2.16.3.16 Air ducts, hoses, lines	*							-	-	-
2.16.3.17 Liquid lines and hoses	*							-	-	-
2.16.3.18 BUS Coupler / Transformers								-	-	-
2.16.4 Software Loading Devices										
2.16.4.1 Operation								A	-	-
2.16.4.2 Configuration / program software cartridges								-	-	-
2.16.4.3 Load and verify Operational Flight Program (OFP) / Operational Program (OP)								-	-	-
2.16.5 Protection										
2.16.5.1 Exposed Electrical Connectors	*							A	A	-
2.16.5.2 Open Pressure Lines	*							A	A	-
2.16.5.3 Open Waveguides	*							A	A	-
2.16.5.4 Open oxygen lines	*							-	-	-
2.16.6 Perform Aircraft Safe for Maintenance Check	*							2b	-	-
2.16.7 Chafing (Causes, Prevention, Identification)	*							A	A	-
2.17 GENERAL AIRCRAFT TASKS TR: Applicable Airframe TOs										
2.17.1 Open / Close										
2.17.1.1 Panels / Doors								2b	-	-
2.17.2 Hydraulic Systems										
2.17.2.1 Service								-	-	-
2.17.2.2 Inspect								-	-	-
2.17.3 Pneumatic System										
2.17.3.1 Service								-	-	-
2.17.3.2 Inspect								-	-	-
2.17.3.3 Take Engine Oil Samples Joint Oil Analysis Program (JOAP)								-	-	-
2.17.4 Aircraft Fuel Systems										
2.17.4.1 Refuel Aircraft (Normal)										
2.17.4.1.1 Refuel Team Member								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.17.4.1.2 Refuel Team Supervisor								-	-	-
2.17.4.2 Refuel Aircraft (With Engines Operating)										
2.17.4.2.1 Refuel Team Member								-	-	-
2.17.4.2.2 Refuel Team Supervisor								-	-	-
2.17.4.3 Defuel Aircraft										
2.17.4.3.1 Defuel Team Member								-	-	-
2.17.4.3.2 Defuel Team Supervisor								-	-	-
2.17.5 Remove / Install										
2.17.5.1 Glareshield								-	-	-
2.17.5.2 Nose Radome / Integrated Fore Body (IFB)								-	-	-
2.17.5.3 Travel Pods								-	-	-
2.17.6 Halon bottle										
2.17.6.1 Inspect								-	-	-
2.17.6.2 Remove								-	-	-
2.17.6.3 Install								-	-	-
2.18 ANCILLARY COMMON TASKS TR: Applicable Airframe TOs										
2.18.1 Aircraft Structural Integrity Program (ASIP)										
2.18.1.1 Overview								-	-	-
2.18.1.2 Monitor								-	-	-
2.18.1.3 Complete forms								-	-	-
2.18.1.4 Maintain reports								-	-	-
2.18.2 Serene BYTE / PACER Ware Program										
2.18.2.1 Overview								-	-	-
2.18.2.2 Monitor								-	-	-
2.18.3 Radar Warning Receiver (RWR) / Radar Threat Warning (RTHW) Program										
2.18.3.1 Overview								-	-	-
2.18.3.2 Monitor								-	-	-
2.18.4 Identification Friend or Foe (IFF) Program										
2.18.4.1 Overview								-	-	-
2.18.4.2 Monitor								-	-	-
2.19 USE TEST EQUIPMENT TR: Applicable Airframe TOs										
2.19.1 Air Data Tester								-	-	-
2.19.2 Thru-line WATT Meter								-	-	-
2.19.3 Time Domain Reflectometer								-	-	-

GENERAL TRAINING REQUIREMENTS

1 Tasks, Knowledge And Technical References	2 Core Tasks		3 Certification For OJT					4 Proficiency Codes Indicate Training / Information Provided		
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
2.19.4 Optical Time Domain Reflectometer (OTDR)								-	-	-
2.19.5 Fiber Optic Light Source and Power Meter	*							-	-	-
2.19.6 Proximity Box / Weight-On-Wheels (WOW)								-	-	-
2.19.7 Radar Simulator Test Set PLM-4								-	-	-
2.19.8 IFF Test Set								-	-	-
2.19.9 Gaseous Oxygen Servicing Cart								-	-	-
2.19.10 Crypto Loading Devices										
2.19.10.1 Data management Device (DMD)								-	-	-
2.19.10.2 Simple Key Loader (SKL)								A	-	-
2.19.10.3 Modernized Crypto								-	-	-

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
Attachment 3 – F-22 Training Requirements										
NOTE 1 Proficiency codes in column 4A identify the task/knowledge requirement for resident training. When two codes are used (e.g., 2b/b), the second code indicates the level of training provided in the course due to equipment shortages or other constraints; dash (e.g., 2b/-) indicates the item will not be trained until the constraint is eliminated.										
3. F-22 AVIONIC SYSTEMS										
APPRENTICE / JOURNEYMAN / CRAFTSMAN										
3.1 GENERAL AIRCRAFT TASKS AND SUPPORT EQUIPMENT										
TR: Applicable Airframe TOs										
3.1.1 Aircraft Familiarization										
3.1.1.1 Operate Portable Maintenance Aid (PMA)	*							2b	-	-
3.1.1.2 PMA Operation								-	B	A
3.1.1.3 Integrated Maintenance Information System (IMIS)										
3.1.1.3.1 IMIS Overview	*							B	B	B
3.1.1.3.2 Document Aircraft Forms	*							2b	-	-
3.1.1.3.3 Navigate Type B Viewer	*							2b	-	-
3.1.1.3.4 Navigate IPB	*							2b	-	-
3.1.1.3.5 Navigate Support Data	*							2b	-	-
3.1.1.3.6 Build Operational Flight Programs (OFP) on Data Transfer Cartridge (DTC)								-	-	-
3.1.1.3.7 Automated Wiring System										
3.1.1.3.7.1 Use Schematic Display	*							2b	-	-
3.1.1.3.7.2 Use Signal Path	*							2b	-	-
3.1.1.4 Charge Battery										
3.1.1.4.1 Communication/Navigation/Identification (CNI) Battery	*							-	-	-
3.1.1.4.2 Main Aircraft Battery								-	-	-
3.1.1.5 Aircraft Doors										
3.1.1.5.1 Open/Close (Manual)										
3.1.1.5.1.1 Main Weapons Bay Doors								-	-	-
3.1.1.5.1.2 Side Weapons Bay Doors								-	-	-
3.1.1.5.2 Open/Close (Powered)										
3.1.1.5.2.1 Main Weapons Bay Doors	*							-	-	-
3.1.1.5.2.2 Side Weapons Bay Doors	*							-	-	-
3.1.1.5.2.3 Electronic Warfare (EW) Doors								-	-	-
3.1.1.5.2.4 Infrared Countermeasures (IRCM) Doors	*							-	-	-

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.1.1.5.2.5 Auxiliary Power Unit (APU) Doors	*							-	-	-
3.1.1.6 Hot Pit Team Member										
3.1.1.6.1 Hot Pit Training Phase 1, Classroom Training								-	-	-
3.1.1.6.2 Hot Pit Training Phase 2, Cold Pit Operation								-	-	-
3.1.1.6.3 Hot Pit Training Phase 3, Hot Pit certification (Engines Operating)								-	-	-
3.1.1.7 Maintenance Safety Hazards										
3.1.1.7.1 Door and Panel Edges								-	-	-
3.1.1.7.2 Aircraft Intake and Exhaust								-	-	-
3.1.1.7.3 APU Intake and Exhaust								-	-	-
3.1.1.7.4 Stored Energy System (SES)								-	-	-
3.1.1.7.5 Actuated Launchers								-	-	-
3.1.1.8 Support Equipment										
3.1.1.8.1 Advanced Diagnostic Interface Tool (ADIT)										
3.1.1.8.1.1 Operate	*							-	-	-
3.1.1.8.1.2 Install/Update Software								-	-	-
3.1.1.8.2 Extender Cards										
3.1.1.8.2.1 Perform Pre-use Inspection								-	-	-
3.1.1.8.2.2 Operate								-	-	-
3.1.1.8.3 Gaseous Oxygen (GOX) Carts										
3.1.1.8.3.1 Inspect	*							2b	-	-
3.1.1.8.3.2 Remove/Replace GOX Cylinders	*							2b	-	-
3.1.1.8.3.3 Maintain GOX Cart	*							2b	-	-
3.1.1.8.3.4 GOX Cart Inspections								-	B	A
3.1.1.8.3.5 GOX Cart Removal/Replacement								-	B	A
3.1.1.8.3.6 GOX Cart Maintenance								-	B	A
3.1.1.8.4 Fiber Optic Video Inspection Set (FOVIS)										
3.1.1.8.4.1 Operate								-	-	-
3.2 GENERAL AVIONICS AND ENVIRONMENTAL MAINTENANCE TR: Applicable Airframe TOs										
3.2.1 Load OFPs to Aircraft	*							-	-	-

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.2.2 Remove/Install										
3.2.2.1 Integrated Avionics Rack (IAR)								-	-	-
3.2.2.2 IAR Backplanes	*							-	-	-
3.2.2.3 Modulation Valves	*							2b	-	-
3.2.2.4 Shut Off Valves (SOVs)	*							-	-	-
3.2.2.5 Check Valves	*							-	-	-
3.2.2.6 Squibs / Electro Explosive Device (EED)								-	-	-
3.2.3 Egress System										
3.2.3.1 Operate Canopy	*							2b	-	-
3.2.3.2 Seat adjustment								-	-	-
3.2.4 Aircraft Engine Operation										
3.2.4.1 Engine Inlet/Exhaust Inspection								-	-	-
3.2.4.2 Idle Engine Run								-	-	-
3.2.4.3 Idle Through Afterburner Engine Run								-	-	-
3.2.4.4 Emergency Procedures								-	-	-
3.2.4.5 Motor Mounted Accessory Drive (MAD) / Engines								-	-	-
3.2.4.6 Couple/Decouple Airframe Mounted Accessory Drive (AMAD)								-	-	-
3.2.4.7 Connect/Disconnect Engine Run Holdback Tool (Restraint)								-	-	-
3.2.4.8 Operate APU from Cockpit								-	-	-
3.2.5 Integrated Avionics Rack										
3.2.5.1 Lower/Raise	*							-	-	-
3.2.6 Electrical Power Application										
3.2.6.1 Apply/Remove Electrical Power										
3.2.6.1.1 Facility								-	-	-
3.2.6.1.2 Aerospace Ground Equipment (AGE)	*							2b	-	-
3.2.6.1.3 Operate APU using PMA	*							2b	-	-
3.2.6.2 AGE Power Application								-	B	-
3.3 ENVIRONMENTAL CONTROL SYSTEM										
TR: Applicable Airframe TOs										
3.3.1 Bleed Air System										
3.3.1.1 Theory of Operation	*							B	B	B
3.3.1.2 Perform Leak and Operational Checkout	*							-	-	-
3.3.1.3 Isolate Malfunctions	*							-	-	-

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.3.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.3.1.5 Remove/Install										
3.3.1.5.1 Primary heat exchanger								-	-	-
3.3.2 Liquid Cooling System										
3.3.2.1 Theory of Operation	*							B	B	B
3.3.2.2 Perform Leak and Operational Checkout	*							-	-	-
3.3.2.3 Isolate Malfunctions	*							-	-	-
3.3.2.4 Perform Advanced Troubleshooting		*						-	-	-
3.3.2.5 Remove/Install										
3.3.2.5.1 Vapor Cycle System Package (VCS)	*							2b	-	-
3.3.2.5.2 Polyalphaolefin (PAO) Reservoir								-	-	-
3.3.3 Air Cooling System										
3.3.3.1 Theory of Operation	*							B	B	B
3.3.3.2 Perform Leak and Operational Checkout	*							-	-	-
3.3.3.3 Isolate Malfunctions	*							2b	-	-
3.3.3.4 Perform Advanced Troubleshooting		*						-	-	-
3.3.3.5 Remove/Install										
3.3.3.5.1 Water Separator Coalescers	*							2b	-	-
3.3.3.5.2 Air Cycle Machine	*							-	-	-
3.3.3.5.3 Load Heat Exchanger								-	-	-
3.3.3.5.4 Air conditioning Refrigeration Package (ACRP)								-	-	-
3.3.4 Pressurization System										
3.3.4.1 Theory of Operation	*							B	B	B
3.3.4.2 Perform Cabin Pressurization Leak and Operational Checkout	*							-	-	-
3.3.4.3 Adjust Canopy Seal Bellows Assembly								-	-	-
3.3.4.4 Isolate Malfunctions	*							-	-	-
3.3.4.5 Perform Advanced Troubleshooting		*						-	-	-
3.3.4.6 Remove/Install										
3.3.4.6.1 Canopy Seal								-	-	-
3.3.4.6.2 Cabin pressure valves								-	-	-
3.3.4.6.3 Canopy Seal Bellows Assembly								-	-	-

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.4 ELECTRICAL POWER SYSTEM TR: Applicable Airframe TOs										
3.4.1 Theory of Operation	*							B	B	B
3.4.2 Perform Operational Checkout	*							-	-	-
3.4.3 Isolate Malfunctions	*							2b	-	-
3.4.4 Perform Advanced Troubleshooting		*						-	-	-
3.4.5 Remove/Install										
3.4.5.1 Main Aircraft Generators	*							2b	-	-
3.4.5.2 Auxiliary Generator	*							2b	-	-
3.4.5.3 Generator Distribution Centers	*							2b	-	-
3.4.5.4 Main Aircraft Battery	*							2b	-	-
3.5 FIRE PROTECTION SYSTEM TR: Applicable Airframe TOs										
3.5.1 Theory of Operation	*							B	B	B
3.5.2 Perform Operational Checkout								-	-	-
3.5.3 Isolate Malfunctions	*							-	-	-
3.5.4 Perform Advanced Troubleshooting		*						-	-	-
3.5.5 Remove/Install										
3.5.5.1 Optical Fire Detectors								-	-	-
3.5.5.2 Dry Bay Fire Protection Units (Halon Bottle)								-	-	-
3.5.5.3 Bleed-Air Overheat Detection Elements								-	-	-
3.6 On-Board Inert Gas Generation System (OBIGGS) TR: Applicable Airframe TOs										
3.6.1 Theory of Operation	*							B	B	B
3.6.2 Perform Operational Checkout	*							-	-	-
3.6.3 Isolate Malfunctions	*							-	-	-
3.6.4 Perform Advanced Troubleshooting		*						-	-	-
3.6.5 Remove/Install System										
3.6.5.1 Air Separation Module (ASM)	*							-	-	-
3.6.5.2 OBIGGS filter								-	-	-
3.6.5.3 ASM Flow Control Valve	*							-	-	-
3.7 INDICATING AND RECORDING SYSTEM TR: Applicable Airframe TOs										
3.7.1 Crash Survivable Flight Data Recorder										

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.7.1.1 Theory of Operation	*							B	B	B
3.7.1.2 Perform Operational Checkout								-	-	-
3.7.1.3 Download/Clear Crash Survivable Memory Unit (CSMU) Data	*							-	-	-
3.7.1.4 Isolate Malfunctions	*							-	-	-
3.7.1.5 Perform Advanced Troubleshooting		*						-	-	-
3.8 LANDING GEAR SYSTEM TR: Applicable Airframe TOs										
3.8.1 Landing Gear Control										
3.8.1.1 Theory of Operation	*							B	B	B
3.8.1.2 Perform Operational Checkout								-	-	-
3.8.1.3 Isolate Malfunctions	*							-	-	-
3.8.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.8.1.5 Remove/Install										
3.8.1.5.1 Landing Gear Control Panel								-	-	-
3.8.2 Anti-Skid System										
3.8.2.1 Theory of Operation	*							B	B	B
3.8.2.2 Perform Operational Checkout								-	-	-
3.8.2.3 Isolate Malfunctions	*							-	-	-
3.8.2.4 Perform Advanced Troubleshooting		*						-	-	-
3.8.2.5 Remove/Install										
3.8.2.5.1 Wheel Speed Sensors								-	-	-
3.9 LIGHTING SYSTEM TR: Applicable Airframe TOs										
3.9.1 Exterior Lighting System										
3.9.1.1 Theory of Operation	*							B	B	B
3.9.1.2 Perform Operational Checkout	*							-	-	-
3.9.1.3 Isolate Malfunctions	*							-	-	-
3.9.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.9.1.5 Remove/Install										
3.9.1.5.1 Anti-collision Strobe Filter Assembly								-	-	-
3.9.1.5.2 Formation Light Assemblies								-	-	-
3.9.1.5.3 In-flight Refueling Lights								-	-	-
3.9.2 Interior Lighting System										

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.9.2.1 Theory of Operation	*							B	B	B
3.9.2.2 Perform Operational Checkout	*							-	-	-
3.9.2.3 Isolate Malfunctions	*							-	-	-
3.9.2.4 Perform Advanced Troubleshooting		*						-	-	-
3.10 GLOBAL POSITIONING INERTIAL NAVIGATION SYSTEM (GINS) TR: Applicable Airframe TOs										
3.10.1 Theory of Operation	*							B	B	B
3.10.2 Perform Operational Checkout	*							-	-	-
3.10.3 Isolate Malfunctions	*							-	-	-
3.10.4 Perform Advanced Troubleshooting		*						-	-	-
3.11 ON-BOARD OXYGEN GENERATION SYSTEM TR: Applicable Airframe TOs										
3.11.1 Theory of Operation	*							B	B	B
3.11.2 Perform Operational Checkout	*							-	-	-
3.11.3 Oxygen System Safety, Handling and Special Tools	*							-	-	-
3.11.4 Isolate Malfunctions	*							-	-	-
3.11.5 Perform Advanced Troubleshooting		*						-	-	-
3.11.6 Remove/Install										
3.11.6.1 Oxygen Control Panel (BRAG valve)	*							-	-	-
3.11.6.2 OBOGS Unit	*							-	-	-
3.11.6.3 Independent Downstream Oxygen Sensor (IDOS)								-	-	-
3.12 BACKUP OXYGEN SYSTEM (BOS) TR: Applicable Airframe TOs										
3.12.1 Theory of Operation	*							B	B	B
3.12.2 Perform Operational Checkout	*							-	-	-
3.12.3 Oxygen System Safety, Handling and Special Tools	*							-	-	-
3.12.4 Service BOS Bottles	*							-	-	-
3.12.5 Isolate Malfunctions	*							-	-	-
3.12.6 Perform Advanced Troubleshooting		*						-	-	-
3.12.7 Remove/Install										
3.12.7.1 Oxygen Bottles	*							-	-	-

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.12.7.2 BOS Controller	*							-	-	-
3.12.7.3 BOS Control Panel	*							-	-	-
3.13 INTEGRATED AVIONICS ARCHITECTURE SYSTEM TR: Applicable Airframe TOs										
3.13.1 Cockpit Displays										
3.13.1.1 Theory of Operation	*							B	B	B
3.13.1.2 Perform Operational Checkout	*							-	-	-
3.13.1.3 Isolate Malfunctions	*							-	-	-
3.13.1.4 Perform Advanced Troubleshooting		*						-	-	-
3.13.1.5 Remove/Install										
3.13.1.5.1 Multifunction Display	*							2b	-	-
3.13.2 Common Integrated Processor (CIP)										
3.13.2.1 Theory of Operation	*							B	B	B
3.13.2.2 Perform Operational Checkout	*							-	-	-
3.13.2.3 Isolate Malfunctions	*							-	-	-
3.13.2.4 Perform Advanced Troubleshooting		*						-	-	-
3.13.2.5 Key Data Encryption /Decryption Device (KOV)								-	-	-
3.14 FLIGHT CONTROL SYSTEM TR: Applicable Airframe TOs										
3.14.1 Theory of Operation	*							B	B	B
3.14.2 Perform Operational Checkout	*							-	-	-
3.14.3 Isolate Malfunctions	*							2b	-	-
3.14.4 Perform Advanced Troubleshooting		*						-	-	-
3.14.5 Remove/Install										
3.14.5.1 Side Stick	*							-	-	-
3.14.5.2 Alpha Probe Transducers	*							2b	-	-
3.14.5.3 Beta Port Transducers	*							2b		
3.15 INTEGRATED VEHICLE SUBSYSTEM CONTROLLER (IVSC) TR: Applicable Airframe TOs										
3.15.1 Theory of Operation	*							B	B	B
3.15.2 Perform Operational Checkout	*							-	-	-
3.15.3 Isolate Malfunctions	*							-	-	-
3.15.4 Perform Advanced Troubleshooting		*						-	-	-

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.16 COMMUNICATION, NAVIGATION, AND IDENTIFICATION (CNI) SYSTEMS TR: Applicable Airframe TOs										
3.16.1 Theory of Operation	*							B	B	B
3.16.2 Perform Operational Checkout								-	-	-
3.16.3 Operate Aircraft Intercommunication System								2b	-	-
3.16.4 Operate Aircraft AUX Comm. Radio	*							-	-	-
3.16.5 Isolate Malfunctions	*							2b	-	-
3.16.6 Perform Advanced Troubleshooting		*						-	-	-
3.16.7 CNI battery										
3.16.7.1 Operation	*							-	B	B
3.16.7.2 Remove/Install										
3.16.7.2.1 Rechargeable	*							-	-	-
3.16.7.2.2 Non-rechargeable	*							-	-	-
3.16.7.2.3 Base Unit	*							-	-	-
3.17 INSTRUMENT LANDING SYSTEM (ILS) TR: Applicable Airframe TOs										
3.17.1 Theory of Operation	*							B	B	B
3.17.2 Perform Operational Checkout								-	-	-
3.17.3 Isolate Malfunctions	*							-	-	-
3.18 TACTICAL AIR NAVIGATION (TACAN) SYSTEM TR: Applicable Airframe TOs										
3.18.1 Theory of Operation	*							B	B	B
3.18.2 Perform Operational Checkout								-	-	-
3.18.3 Isolate Malfunctions	*							-	-	-
3.19 AIR COMBAT MANEUVERING INSTRUMENTATION (ACMI)										
3.19.1 Theory of Operation	*							-	A	A
3.19.2 Perform Operational Checkout								-	-	-
3.19.3 Isolate Malfunctions								-	-	-
3.20 IDENTIFICATION FRIEND OR FOE (IFF) SYSTEM TR: Applicable Airframe TOs										
3.20.1 Theory of Operation	*							B	B	-
3.20.2 Perform Operational Checkout								-	-	-
3.20.3 Isolate Malfunctions	*							-	-	-

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.21 AIR-TO-AIR INTERROGATOR (AAI) SYSTEM TR: Applicable Airframe TOs										
3.21.1 Theory of Operation	*							B	B	B
3.21.2 Perform Operational Checkout								-	-	-
3.21.3 Isolate Malfunctions	*							-	-	-
3.22 INTRA FLIGHT DATA LINK (IFDL) SYSTEM TR: Applicable Airframe TOs										
3.22.1 Theory of Operation	*							B	B	B
3.22.2 Perform Operational Checkout								-	-	-
3.22.3 Isolate Malfunctions	*							-	-	-
3.22.4 Remove/Install										
3.22.4.1 IFDL Receiver/Transmitter								-	-	-
3.22.4.2 IFDL Multi Beam Antennas								2b	-	-
3.22.4.3 IFDL Controller	*							2b	-	-
3.23 RADAR TR: Applicable Airframe TOs										
3.23.1 Perform Operational Checkout								-	-	-
3.23.2 Isolate Malfunctions	*							2b	-	-
3.23.3 Perform Advanced Troubleshooting		*						-	-	-
3.23.4 3rd Generation RADAR										
3.23.4.1 Theory of Operation	*							B	B	B
3.23.4.2 Remove/Install										
3.23.4.2.1 Array Assembly								-	-	-
3.23.5 4th Generation RADAR										
3.23.5.1 Theory of Operation	*							B	B	B
3.23.5.2 Remove/Install										
2.23.5.2.1 Array Assembly								-	-	-
2.23.5.2.2 RADAR Processor								-	-	-
3.24 DATA TRANSFER SYSTEM TR: Applicable Airframe TOs										
3.24.1 Theory of Operation	*							B	B	B
3.24.2 Perform Operational Checkout								-	-	-
3.24.3 Isolate malfunctions	*							-	-	-
3.24.4 Perform Advanced Troubleshooting		*						-	-	-
3.24.5 Remove/Install										
3.24.5.1 Data Transfer/Mass Memory & Video Recorder (DMVR)	*							-	-	-
3.25 ELECTRONIC WARFARE (EW) TR: Applicable Airframe TOs										

F-22 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
3.25.1 Theory of Operation	*							B	B	B
3.25.2 Isolate Malfunctions	*							-	-	-
3.25.3 Perform Advanced Troubleshooting		*						-	-	-
3.25.4 Radar Warning System (RW)										
3.25.4.1 Theory of Operation	*							A	B	B
3.25.4.2 Perform Operational Checkout								-	-	-
3.25.4.3 Isolate Malfunctions	*							-	-	-
3.25.4.4 Remove/Install										
3.25.4.4.1 EW power supplies	*							2b	-	-
3.25.4.4.2 FWD Array Electronics Unit								-	-	-
3.25.4.4.3 AFT Array Electronics Unit								-	-	-
3.25.5 Missile Launch Detector (MLD) System										
3.25.5.1 Theory of Operation	*							A	B	B
3.25.5.2 Perform Operational Checkout								-	-	-
3.25.5.3 Isolate Malfunctions	*							-	-	-
3.25.5.4 Remove/Install										
3.25.5.4.1 MLD Sensors	*							2b	-	-
3.25.6 External Countermeasures (EXCM) System										
3.25.6.1 Theory of Operation	*							A	B	B
3.25.6.2 Perform Operational Checkout								-	-	-
3.25.6.4 Isolate Malfunctions	*							-	-	-

MQ-1 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
Attachment 4 – MQ-1 Training Requirements NOTE 1 Proficiency codes in column 4A identify the task/knowledge requirement for resident training. When two codes are used (e.g., 2b/b), the second code indicates the level of training provided in the course due to equipment shortages or other constrains; dash (e.g., 2b/-) indicates the item will not be trained until the constraint is eliminated.										
4. MQ-1 AVIONIC SYSTEMS APPRENTICE / JOURNEYMAN / CRAFTSMAN										
4.1 PREDATOR SUPPORT EQUIPMENT TR: Applicable Airframe TOs										
4.1.1 Operate Starter / Power Cart								-	-	-
4.1.2 Operate Refuel / Defuel Cart								-	-	-
4.1.3 Operate Casp 2000 Battery Charger	*							-	-	-
4.1.4 Operate Hoist	*							-	-	-
4.1.5 Operate Sorenson power Supply	*							-	-	-
4.1.6 Operate Aircraft Stands, Cradles and Dollies								-	-	-
4.1.7 Operate Ground Control Station (GCS)								-	-	-
4.1.8 Operate Ruggedized Aircraft Maintenance Test System (RAMTS) /Single Bay Station	*							-	-	-
4.1.9 Navigate Variable Information Tables (VIT)	*							-	-	-
4.1.10 Operate Sensor Operate Hand Control Unit (SOHCU)	*							-	-	-
4.1.11 Battery Maintenance										
4.1.11.1 Battery Charger Set up with Epson Printer Emulator	*							-	-	-
4.1.11.2 Battery Reconditioning Off Aircraft	*							-	-	-
4.1.12 Use Aircraft Maintenance Forms										
4.1.12.1 781A								-	-	-
4.1.12.2 781H								-	-	-
4.1.12.3 781K								-	-	-
4.1.12.4 Other 781 forms								-	-	-
4.2 AIRCRAFT GENERAL TR: Applicable Airframe TOs										
4.2.1 Perform Aircraft Pack Up procedure								-	-	-
4.2.2 Perform Aircraft Set Up Procedures								-	-	-

MQ-1 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.2.3 Perform Aircraft Power-up/ Initial Link and power down	*							-	-	-
4.2.4 Verify Network Node Software	*							-	-	-
4.2.5 Verify UAV configuration	*							-	-	-
4.2.6 Remove / Install Panels, Radomes, and fairings	*							-	-	-
4.2.7 Perform Landing Gear Test								-	-	-
4.2.8 Install / remove Ballast								-	-	-
4.2.9 Push aircraft								-	-	-
4.2.10 Steer aircraft								-	-	-
4.2.11 150-hour Inspection	*							-	-	-
4.3 ELECTRICAL POWER AND DISTRIBUTION SYSTEM TR: Applicable Airframe TOs										
4.3.1 System Theory	*							-	A	-
4.3.2 Perform Operational Checks	*							-	-	-
4.3.3 Remove / Install Battery	*							-	-	-
4.3.4 Isolate Malfunctions	*							-	-	-
4.3.5 Charging / Discharging Battery On Aircraft	*							-	-	-
4.3.6 Advanced Troubleshooting		*						-	-	-
4.4 AIRCRAFT DIGITAL CONTROL SYSTEM TR: Applicable Airframe TOs										
4.4.1 System Theory	*							-	A	-
4.4.2 Perform Operational Checkout	*							-	-	-
4.4.3 Remove/Install Primary Control Module (PCM)	*							-	-	-
4.4.4 Remove/Install Secondary Control Module (SCM)	*							-	-	-
4.4.5 Remove / Install Wing Control Modules								-	-	-
4.4.6 Isolate Malfunctions	*							-	-	-
4.4.7 Advanced Troubleshooting		*						-	-	-
4.5 AN/ARC-210 RADIO TR: Applicable Airframe TOs										
4.5.1 System Theory	*							-	-	-
4.5.2 Perform Operational Checks	*							-	-	-
4.5.3 Isolate Malfunctions	*							-	-	-
4.5.4 Advanced Troubleshooting		*						-	-	-
4.5.5 Joint Tactical Radio System (JTRS)										
4.5.5.1 System Theory								-	-	-

MQ-1 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.5.5.2 Perform Operational Check								-	-	-
4.6 AN/APX-100 IDENTIFICATION FRIEND OR FOE (IFF) SYSTEM TR: Applicable Airframe TOs										
4.6.1 System Theory	*							-	-	-
4.6.2 Perform Operational Checks	*							-	-	-
4.6.3 Loading / Zeroizing Mode 4 Codes	*							-	-	-
4.6.4 Isolate Malfunctions	*							-	-	-
4.6.5 Advanced Troubleshooting		*						-	-	-
4.7 C-BAND AIRBORNE DATALINK TR: Applicable Airframe TOs										
4.7.1 Datalinks System										
4.7.1.1 System Theory	*							-	-	-
4.7.2 Perform Operational Check	*							-	-	-
4.7.3 Perform C-Band Datalink Test	*							-	-	-
4.7.4 Perform C-Band Directional Antenna Control Test	*							-	-	-
4.7.5 Isolate Malfunctions	*							-	-	-
4.7.6 Advanced Troubleshooting		*						-	-	-
4.8 KU-BAND SATELLITE COMMUNICATION (SATCOM) DATALINK TR: Applicable Airframe TOs										
4.8.1 Perform KU Band SATCOM and Datalink Test								-	-	-
4.8.2 Load Datalink Encryption Codes	*							-	-	-
4.8.3 Isolate Malfunctions	*							-	-	-
4.8.4 Advanced Troubleshooting		*						-	-	-
4.9 NAVIGATION GUIDANCE and CONTROL SYSTEMS TR: Applicable Airframe TOs										
4.9.1 LN-100 GPS / INS										
4.9.1.1 System Theory	*							-	-	-
4.9.1.2 Perform Operational Checks	*							-	-	-
4.9.1.3 Loading / Zeroizing LN-100 Encryption Codes	*							-	-	-
4.9.1.4 Isolate Malfunctions	*							-	-	-
4.9.1.5 Advanced Troubleshooting		*						-	-	-
4.10 FLIGHT CONTROL SYSTEM TR: Applicable Airframe TOs										
4.10.1 System Theory	*							-	-	-
4.10.2 Perform Operational Checks	*							-	-	-

MQ-1 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.10.3 Angle of Attack (AOA) Rigging Procedures	*							-	-	-
4.10.4 Flight Control Servos										
4.10.4.1 Flight Control Servos Rigging	*							-	-	-
4.10.4.2 Flight Control Servos Removal and Installation	*							-	-	-
4.10.5 Isolate Malfunctions	*							-	-	-
4.10.6 Advanced Troubleshooting		*						-	-	-
4.10.7 Air Data										
4.10.7.1 System Theory	*							-	-	-
4.10.7.2 Perform Operational Checks	*							-	-	-
4.10.7.3 Isolate Malfunctions	*							-	-	-
4.10.7.4 Advanced Troubleshooting		*						-	-	-
4.10.8 Autopilot System										
4.10.8.1 System Theory	*							-	-	-
4.10.8.2 Perform Operational Check	*							-	-	-
4.10.8.3 Isolate Malfunctions	*							-	-	-
4.10.8.4 Advanced Troubleshooting		*						-	-	-
4.11 AIRCRAFT LIGHTING SYSTEM TR: Applicable Airframe TOs										
4.11.1 System Theory	*							-	-	-
4.11.2 Perform Operational Checks	*							-	-	-
4.11.3 Perform Infrared Beacon Test	*							-	-	-
4.11.4 Isolate Malfunctions	*							-	-	-
4.11.5 Advanced Troubleshooting		*						-	-	-
4.12 EO / IR RECONNAISSANCE PAYLOAD SYSTEM TR: Applicable Airframe TOs										
4.12.1 System Theory	*							-	-	-
4.12.2 Perform Operational Checkout	*							-	-	-
4.12.3 AN/AAS-52 MTS Turret Removal and Installation	*							-	-	-
4.12.4 Remove / Install Circuit Cards								-	-	-
4.12.5 Isolate Malfunctions	*							-	-	-
4.12.6 Advanced Troubleshooting		*						-	-	-
4.13 DUAL CAMERA TR: Applicable Airframe TOs										
4.13.1 System Theory	*							-	-	-
4.13.2 Perform Operational Checks	*							-	-	-
4.13.3 Perform Dual Camera Alignment	*							-	-	-
4.13.4 Dual Camera Assembly Lens Cleaning								-	-	-
4.13.5 Isolate Malfunctions	*							-	-	-

MQ-1 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
4.13.6 Advanced Troubleshooting		*						-	-	-
4.14 VIDEO ORIENTED TRANSCIEVER FOR EXCHANGE OF INFORMATION (VORTEX) TR: Applicable Airframe TOs										
4.14.1 System Theory	*							-	-	-
4.14.2 Perform Operational Check	*							-	-	-
4.14.3 Configure System	*							-	-	-
4.14.4 Isolate Malfunctions	*							-	-	-
4.14.5 Perform Advanced Troubleshooting		*						-	-	-
4.15 MQ-1 AIRFRAME TR: Applicable Airframe TOs										
4.15.1 Wings								-	-	-
4.15.2 Tails Boards								-	-	-
4.15.3 Vertical Tail								-	-	-
4.16 INSPECTIONS TR: Applicable Airframe TOs										
4.16.1 Pre-Flight								-	-	-
4.16.2 Thru-Flight								-	-	-
4.16.3 Post-Flight								-	-	-
4.16.4 Combined Pre/Post-Flight								-	-	-
4.17 FUEL SYSTEMS TR: Applicable Airframe TOs										
4.17.1 System Theory	*							-	-	-
4.17.2 Perform Operational Check	*							-	-	-
4.17.3 Isolate Malfunctions	*							-	-	-
4.17.4 Perform Advanced Troubleshooting		*						-	-	-
4.18 AIR HANDLER SYSTEM TR: Applicable Airframe TOs										
4.18.1 System Theory								-	-	-
4.18.2 Perform Operational Check								-	-	-
4.18.3 Remove and Install LRUs								-	-	-

RQ-4 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 Course	B 5 Skill Level CDC	C 7 Skill Level CDC
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials			
Attachment 5 – RQ-4 Training Requirements										
NOTE 1 Proficiency codes in column 4A identify the task/knowledge requirement for resident training. When two codes are used (e.g., 2b/b), the second code indicates the level of training provided in the course due to equipment shortages or other constraints; dash (e.g., 2b/-) indicates the item will not be trained until the constraint is eliminated.										
5. RQ-4 AVIONIC SYSTEMS										
APPRENTICE /										
JOURNEYMAN / CRAFTSMAN										
5.1 AIRCRAFT GENERAL										
TR: Applicable Airframe TOs										
5.1.1 Perform Ground Handling										
5.1.1.1 Launch aircraft (Vehicle Test Controller (VTC) Operator)	*							-	-	-
5.1.1.2 Recover aircraft (Supervisor)								-	-	-
5.1.1.3 Electrical Preflight	*							b	-	-
5.1.1.4 Load / Zeroize COMSEC Codes	*							-	-	-
5.1.1.5 Refuel / Defuel VTC Operator								-	-	-
5.1.2 Power On/Off Aircraft										
5.1.2.1 Internal Launch	*							-	-	-
5.1.2.2 External Test	*							-	-	-
5.1.3 Airframe Components										
5.1.3.1 Nacelles										
5.1.3.1.1 Remove / Install Fwd Nacelle								-	-	-
5.1.3.1.2 Remove / Install Mid Nacelle	*							-	-	-
5.1.3.1.3 Remove / Install Aft Nacelle								-	-	-
5.1.3.2 Radomes										
5.1.3.2.1 Remove / Install Synthetic Aperture Radar (SAR) Radome	*							-	-	-
5.1.3.2.2 Remove / Install KU Band Satellite Communications (SatCom) Radome	*							-	-	-
5.1.3.2.3 Remove / Install Common Data Link (CDL) / Line of Sight (LOS) Radome	*							-	-	-
5.1.3.3 Flight Control Surfaces										
5.1.3.3.1 Perform Ruddervator Rigging	*							-	-	-
5.1.3.3.2 Perform Aileron Rigging	*							-	-	-
5.1.3.3.3 Perform Spoiler Rigging	*							-	-	-
5.1.3.4 Vehicle Test Controller										
5.1.3.4.1 Operate	*							2b	A	-
5.1.3.4.2 Load and Configure Software								-	-	-
5.1.3.5 LRU Fuel Purge Kit										

RQ-4 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.1.3.5.1 Operate								-	-	-
5.1.3.6 Portable Control Device (PCD)										
5.1.3.6.1 Operate	*							b	A	-
5.1.3.6.2 Load and Configure Software								-	-	-
5.1.3.7 Communication Automatic Test Equipment (CATE) Cart										
5.1.3.7.1 Operation	*							-	A	A
5.1.3.7.2 Load and Configure Software								-	-	-
5.1.3.8 Flightline Maintenance (O) Cart										
5.1.3.8.1 Operate	*							a	A	A
5.1.3.8.2 Load and Configure Software								-	-	-
5.1.3.9 Jack Table, Presto Lift										
5.1.3.9.1 Operate								-	-	-
5.1.3.10 Integrated Sensor Suite (ISS) Handling Fixtures										
5.1.3.10.1 Operate								-	-	-
5.1.4 Use Aircraft Maintenance Forms TR: TO 00-20 Series										
5.1.4.1 781A								-	-	-
5.1.4.2 781H								-	-	-
5.1.4.3 781K								-	-	-
5.1.4.4 Other 781 forms								-	-	-
5.2 FLIGHT CONTROLS TR: Applicable Airframe TOs										
5.2.1 System Theory	*							A	B	B
5.2.2 Isolate Malfunctions	*							-	-	-
5.2.3 Perform Operational Checkout										
5.2.3.1 Aileron	*							-	-	-
5.2.3.2 Ruddervator	*							-	-	-
5.2.3.3 Spoiler	*							-	-	-
5.2.4 Isolate Malfunctions	*							-	-	-
5.2.5 Perform Advanced Troubleshooting		*						-	-	-
5.3 FUEL SYSTEM INDICATION TR: Applicable Airframe TOs										
5.3.1 System Theory	*							A	B	B
5.3.2 Perform Operational Check	*							-	-	-
5.3.3 Isolate Malfunctions	*							-	-	-
5.3.4 Perform Advanced Troubleshooting		*						-	-	-
5.4 NAVIGATION AND SYSTEM INTEGRATION TR: Applicable Airframe TOs										

RQ-4 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.4.1 Air Data System										
5.4.1.1 System Theory	*							B	B	B
5.4.1.2 Perform Operational Checkout	*							-	-	-
5.4.1.3 Isolate Malfunctions	*							-	-	-
5.4.1.4 Perform Advanced Troubleshooting		*						-	-	-
5.4.1.5 Remove/Install System LRUs										
5.4.1.5.1 Air Data Tray								-	-	-
5.4.2 Radio Altimeter System										
5.4.2.1 System Theory	*							A	B	B
5.4.2.2 Perform Operational Checkout										
5.4.2.2.1 Radio Altimeter	*							-	-	-
5.4.2.2.2 Radio Altimeter Sensitivity Check	*							-	-	-
5.4.2.3 Isolate Malfunctions	*							-	-	-
5.4.2.4 Perform Advanced Troubleshooting								-	-	-
5.4.3 OmniSTAR System										
5.4.3.1 System Theory	*							A	B	B
5.4.3.2 Perform Operational Checkout	*							-	-	-
5.4.3.3 Renew OmniSTAR Subscription	*							-	-	-
5.4.3.4 Isolate Malfunctions	*							-	-	-
5.4.3.5 Perform Advanced Troubleshooting								-	-	-
5.4.4 Special Category 1 (SCAT-1) System										
5.4.4.1 System Theory	*							A	B	B
5.4.4.2 Perform Operational Checkout	*							-	-	-
5.4.4.3 Isolate Malfunctions	*							-	-	-
5.4.4.4 Perform Advanced Troubleshooting								-	-	-
5.4.5 See/Detect System										
5.4.5.1 System Theory	*							A	B	B
5.4.5.2 Perform See/Detect Camera Non- Conformity Checkout								-	-	-
5.4.5.3 Isolate Malfunctions								-	-	-
5.4.5.4 Perform Advanced Troubleshooting								-	-	-
5.4.6 Inertial Navigation System (INS)										
5.4.6.1 System Theory	*							A	B	B
5.4.6.2 Perform Operational Checkout										
5.4.6.2.1 INS Kearfott	*							-	-	-
5.4.6.2.2 INS LN-100	*							-	-	-

RQ-4 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.4.6.3 Isolate Malfunctions	*							-	-	-
5.4.6.4 Perform Advanced Troubleshooting		*						-	-	-
5.4.7 Traffic Collision Avoidance (TCAS) System										
5.4.7.1 System Theory	*							A	B	B
5.4.7.2 Perform Operational Checkout								-	-	-
5.4.7.3 Isolate Malfunctions								-	-	-
5.4.7.4 Perform Advanced Troubleshooting								-	-	-
5.5 PROCESSING AND INTEGRATION TR: Applicable Airframe TOs										
5.5.1 System Theory	*							B	B	B
5.5.2 Perform Operational Checkouts										
5.5.2.1 Integrated Mission Management Computer (IMMC)	*							-	-	-
5.5.2.2 Isolate Malfunctions	*							-	-	-
5.5.2.3 Perform Advanced Troubleshooting		*						-	-	-
5.5.3 Load/Download/Verify Software										
5.5.3.1 IMMC	*							-	-	-
5.5.3.2 Mission Plan	*							-	-	-
5.5.3.3 Fault Logs	*							-	-	-
5.5.4 Tactical Communication										
5.5.4.1 Perform Airborne Integrated Communication Systems (AICS) Inside Hangar Test								b	-	-
5.5.4.2 Perform AICS Outside Hangar Test	*							-	-	-
5.5.4.3 Load/Download/Verify Common Airborne Modem Assembly (CAMA) Software								-	-	-
5.5.4.4 Remove / Install CAMA								b	-	-
5.6 LINE OF SIGHT (LOS) COMMUNICATIONS TR: Applicable Airframe TOs										
5.6.1 UHF										
5.6.1.1 System Theory	*							A	B	B
5.6.1.2 Perform Operational Checkout	*							-	-	-
5.6.1.3 Isolate Malfunctions	*							-	-	-
5.6.1.4 Perform Advanced Troubleshooting		*						-	-	-
5.6.2 Common Data Link (CDL)										

RQ-4 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	B	C
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level Course	5 Skill Level CDC	7 Skill Level CDC
5.6.2.1 System Theory	*							A	B	B
5.6.2.2 Perform Operational Checkout	*							-	-	-
5.6.2.3 Isolate Malfunctions	*							-	-	-
5.6.2.4 Perform Advanced Troubleshooting		*						-	-	-
5.6.2.5 Remove/Install System LRUs										
5.6.2.5.1 CDL Antenna	*							-	-	-
5.6.3 Air Traffic Control (ATC) Voice										
5.6.3.1 System Theory	*							A	B	B
5.6.3.2 Perform Operational Checkout	*							-	-	-
5.6.3.3 Isolate Malfunctions	*							-	-	-
5.6.3.4 Perform Advanced Troubleshooting		*						-	-	-
5.7 IDENTIFICATION, FRIEND OR FOE (IFF) TR: Applicable Airframe TOs										
5.7.1 System Theory	*							A	B	B
5.7.2 Perform Operational Checkout	*							-	-	-
5.7.3 Isolate Malfunctions	*							-	-	-
5.7.4 Perform Advanced Troubleshooting		*						-	-	-
5.8 EMERGENCY LOCATOR TRANSMITTER (ELT) TR: Applicable Airframe TOs										
5.8.1 System Theory	*							A	B	B
5.8.2 Perform Operational Checkout	*							-	-	-
5.8.3 Isolate Malfunctions	*							-	-	-
5.8.4 Perform Advanced Troubleshooting								-	-	-
5.9 SATELLITE COMMUNICATIONS TR: Applicable Airframe TOs										
5.9.1 KU Satellite Communications (SatCom)										
5.9.1.1 System Theory	*							A	B	B
5.9.1.2 Perform Operational Checkout	*							-	-	-
5.9.1.3 KU Waveguide System Purge / Leak Test	*							-	-	-
5.9.1.4 Isolate Malfunctions	*							-	-	-
5.9.1.5 Perform Advanced Troubleshooting		*						-	-	-
5.9.1.6 Remove / Install KU Antenna								b	-	-
5.9.2 Ultrahigh Frequency (UHF) SatCom										

RQ-4 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	B	C
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level Course	5 Skill Level CDC	7 Skill Level CDC
5.9.2.1 System Theory	*							A	B	B
5.9.2.2 Perform Operational Checkout	*							-	-	-
5.9.2.3 Isolate Malfunctions	*							-	-	-
5.9.2.4 Perform Advanced Troubleshooting		*						-	-	-
5.9.3 International Maritime Satellite (INMARSAT)										
5.9.3.1 System Theory	*							A	B	B
5.9.3.2 Perform Operational Checkout	*							-	-	-
5.9.3.3 Isolate Malfunctions	*							-	-	-
5.9.3.4 Perform Advanced Troubleshooting		*						-	-	-
5.10 INTEGRATED SENSOR SUITE (ISS) TR: Applicable Airframe TOs										
5.10.1 System Theory	*							A	B	B
5.10.2 Isolate Malfunctions	*							-	-	-
5.10.3 Perform Advanced Troubleshooting		*						-	-	-
5.10.4 Perform Operational Checkout										
5.10.4.1 ISS Test (Inside Hangar)	*							-	-	-
5.10.4.2 ISS Test (Outside Hangar)	*							-	-	-
5.10.4.3 Integrated Sensor Processor (ISP) Log Extraction / Coordinated Universal Time (UTC) Clock Update	*							-	-	-
5.10.5 Electro Optical Infrared System (EO/IR)										
5.10.5.1 Remove / Install Electro-Optical Infrared Receiver Unit (ERU) / Ballast	*							-	-	-
5.10.5.2 Perform ERU Purge								-	-	-
5.10.5.3 Clean ERU Glass Non-Contact								-	-	-
5.10.5.4 Clean ERU Glass Contact								-	-	-
5.10.6 Solid State Recorder (SSR)										
5.10.6.1 Perform Operational Checkout								-	-	-
5.10.6.2 Erase Hard Drive								-	-	-
5.10.7 Synthetic Aperture Radar (SAR)										
5.10.7.1 Perform SAR Waveguide Pressurization System Purge / Leak Test	*							-	-	-
5.10.8 Remove/Install System LRUs										

RQ-4 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.10.8.1 SAR Antenna	*							-	-	-
5.10.8.2 SAR Waveguide Air Desiccant Cartridge								-	-	-
5.10.8.3 SAR Waveguide Pump A/B	*							-	-	-
5.11 ENVIRONMENTAL CONTROL SYSTEM TR: Applicable Airframe TOs										
5.11.1 System Theory	*							A	B	B
5.11.2 Perform Operational Checks										
5.11.2.1 Compartment Pressure	*							-	-	-
5.11.2.2 Temperature Transducer	*							-	-	-
5.11.2.3 Heat Exchanger								-	-	-
5.11.2.4 FWD/AFT In-Line Heater	*							-	-	-
5.11.3 Isolate Malfunctions	*							-	-	-
5.11.4 Perform Advanced Troubleshooting		*						-	-	-
5.12 ELECTRICAL POWER TR: Applicable Airframe TOs										
5.12.1 AC Power										
5.12.1.1 System Theory	*							B	B	B
5.12.1.2 Perform Power Distribution Assy. (PDA) Operational Check	*							-	-	-
5.12.1.3 Isolate Malfunctions	*							-	-	-
5.12.1.4 Perform Advanced Troubleshooting		*						-	-	-
5.12.1.5 25 KVA AC Generator										
5.12.1.5.1 Perform Generator Operational Check	*							-	-	-
5.12.1.5.2 Remove / Install Generator Control Unit (GCU)	*							-	-	-
5.12.1.5.3 Remove / Install Generator	*							b	-	-
5.12.1.6 10 KVA AC Generator										
5.12.1.6.1 Perform Generator Operational Check	*							-	-	-
5.12.1.6.2 Generator Remove/ Install	*							-	-	-
5.12.2 DC Power										
5.12.2.1 System Theory	*							B	B	B
5.12.2.2 Perform Operational Checks										
5.12.2.2.1 DC Generator	*							-	-	-
5.12.2.2.2 Transformer Rectifier Unit	*							-	-	-
5.12.2.2.3 Lithium Ion Battery Charger								-	-	-
5.12.2.2.4 Power and Discrete Controller, Forward (FPDC)	*							-	-	-

RQ-4 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	B	C
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level Course	5 Skill Level CDC	7 Skill Level CDC
5.12.2.2.5 Power and Discrete Controller, Aft (APDC)	*							-	-	-
5.12.2.3 Isolate Malfunctions	*							-	-	-
5.12.2.4 Perform Advanced Troubleshooting		*						-	-	-
5.12.2.5 Remove / Install System LRUs										
5.12.2.5.1 FPDC								-	-	-
5.12.2.5.2 APDC								-	-	-
5.12.2.5.3 Ground Control Panel								-	-	-
5.12.2.5.4 DC Generator	*							-	-	-
5.13 LANDING GEAR SYSTEM TR: Applicable Airframe TOs										
5.13.1 System Theory	*							A	B	B
5.13.2 Perform Wheel Speed Transducer Operational Check	*							-	-	-
5.13.3 Perform Landing Gear Switch Rigging	*							-	-	-
5.13.4 Isolate Malfunctions	*							-	-	-
5.13.5 Perform Advanced Troubleshooting		*						-	-	-
5.13.6 Remove / Install Wheel Speed Transducer	*							-	-	-
5.14 LIGHTING SYSTEM TR: Applicable Airframe TOs										
5.14.1 System Theory	*							A	B	B
5.14.2 Perform Operational Check	*							-	-	-
5.14.3 Isolate Malfunctions	*							-	-	-
5.14.4 Perform Advanced Troubleshooting		*						-	-	-
5.15 OFF EQUIP TASKS TR: Applicable Airframe TOs										
5.15.1 Lithium Ion Battery										
5.15.1.1 Theory	*							A	B	B
5.15.1.2 Perform Handling / Servicing	*							b	-	-
5.16 Airborne Signals Intelligence Payload (ASIP) TR: Applicable Airframe TOs										
5.16.1 Perform Operation Checkout								-	-	-
5.16.2 Perform ASIP key zeroize								-	-	-
5.16.3 Set up/tear down Flightline Support Equipment (FLSE) cart								-	-	-

RQ-4 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
5.16.4 Load Data Link Encryptor/ File Server Encrypted (DLE/FSE) keys during launch								-	-	-
5.17 RQ-4 Ground Control Station (GCS)										
5.17.1 Mission Control Element (MCE)										
5.17.1.1 Theory of Operation	*							B	B	B
5.17.1.2 Command and Control Systems								-	-	-
5.17.1.3 Electrical/Environmental Systems								-	-	-
5.17.1.4 Communications Systems								-	-	-
5.17.1.5 Navigation Aids Systems								-	-	-
5.17.2 Launch Recovery Element (LRE)										
5.17.2.1 Theory of operation	*							B	B	B
5.17.2.2 Command and Control Systems								-	-	-
5.17.2.3 Electrical/Environmental Systems								-	-	-
5.17.2.4 Communications Systems								-	-	-
5.17.2.5 Navigation Aids Systems								-	-	-

MQ-9 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 Course	B 5 Skill Level CDC	C 7 Skill Level CDC
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials			
Attachment 6 – MQ-9 Training Requirements NOTE 1 Proficiency codes in column 4A identify the task/knowledge requirement for resident training. When two codes are used (e.g., 2b/b), the second code indicates the level of training provided in the course due to equipment shortages or other constraints; dash (e.g., 2b/-) indicates the item will not be trained until the constraint is eliminated.										
6. MQ-9 AVIONIC SYSTEMS APPRENTICE/JOURNEYMAN/CRAFTSMAN										
6.1 AIRCRAFT GENERAL TR: Applicable Airframe TOs										
6.1.1 Perform Aircraft Power-up/ Initial Link and power down	*							-	-	-
6.1.2 Verify Network Node Software	*							-	-	-
6.1.3 Verify Unmanned Aerial Vehicle (UAV) configuration	*							2b	-	-
6.1.4 Remove / Install Panels, Radomes, and fairings	*							-	-	-
6.1.5 Remove/ Install Wingtip Assembly								-	-	-
6.1.6 Perform Landing Gear Test								-	-	-
6.1.7 Remove / Install Ballast								-	-	-
6.1.8 Propeller Safety								A	-	-
6.1.9 Ruggedized Aircraft Maintenance Test Station (RAMTS)										
6.1.9.1 System Theory	*							A	A	-
6.1.9.2 Operate RAMTS	*							2b	-	-
6.1.9.3 Record/download Data loggers		*						-	-	-
6.1.9.4 Navigate Variable Information Tables (VIT)	*							-	-	-
6.1.10 Battery Maintenance										
6.1.10.1 Battery Charger Set up with Epson Printer Emulator	*							-	-	-
6.1.10.2 Battery Reconditioning Off Aircraft	*							-	-	-
6.1.11 Use Aircraft Maintenance Forms										
6.1.11.1 781A								2b	B	-
6.1.11.2 781H								2b	A	-
6.1.11.3 781K								2b	A	-
6.1.11.4 Other 781 forms								-	A	-
6.2 REAPER SUPPORT EQUIPMENT TR: Applicable Airframe TOs										

MQ-9 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.2.1 Operate HOBART/Jet X Power Cart								-	-	-
6.2.2 Operate B809 Generator								-	-	-
6.2.3 Operate Casp 2000 Battery Charger	*							-	-	-
6.2.4 Operate Sorenson Power Supply	*							-	-	-
6.2.5 Operate Aircraft Stands, Cradles and Dollies								-	-	-
6.2.6 Operate TTU-205 Tester	*							-	-	-
6.2.7 Operate Portable Floor Crane								-	-	-
6.2.8 Operate 2 Ton Fuselage Jack								-	-	-
6.2.9 Operate Sensor Operated Hand Control Unit (SOHCU)	*							1b	-	-
6.3 DATALINK SYSTEM TR: Applicable Airframe TOs										
6.3.1 System Theory										
6.3.1.1 Block 1	*							B	B	B
6.3.1.2 Block 5								A	A	A
6.3.2 C-Band										
6.3.2.1 Perform C-Band Video Multiplexer Test	*							1b	-	-
6.3.2.2 Perform C-Band Datalink Test	*							-	-	-
6.3.2.3 Perform C-Band Directional Antenna Control Test								-	-	-
6.3.2.4 Isolate Malfunctions	*							-	-	-
6.3.2.5 Perform Advanced Troubleshooting		*						-	-	-
6.3.3 KU Band										
6.3.3.1 Perform KU Band Satellite Communication (SATCOM) and Datalink Test								-	-	-
6.3.3.2 Perform KU Band Common Datalink Test								-	-	-
6.3.3.3 Load Datalink Encryption Codes	*							-	-	-
6.3.3.4 Isolate Malfunctions	*							-	-	-
6.3.3.5 Perform Advanced Troubleshooting		*						-	-	-
6.4 AIRCRAFT ELECTRICAL POWER SYSTEM TR: Applicable Airframe TOs										
6.4.1 System Theory										
6.4.1.1 Block 1	*							A	B	B
6.4.1.2 Block 5								A	B	B

MQ-9 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.4.2 Perform Operational Checks										
6.4.2.1 Block 1	*							2b	-	-
6.4.2.2 Block 5								-	-	-
6.4.3 Remove / Install Battery	*							2b	-	-
6.4.4 Isolate Malfunctions	*							2b	-	-
6.4.5 Perform Advanced Troubleshooting		*						-	-	-
6.4.6 Charging / Discharging Battery On Aircraft	*							-	-	-
6.5 AIRCRAFT DIGITAL CONTROL SYSTEM TR: Applicable Airframe TOs										
6.5.1 System Theory										
6.5.1.1 Block 1	*							A	B	B
6.5.1.2 Block 5								-	-	-
6.5.2 Perform Aircraft Digital Control System Test	*							-	-	-
6.5.3 Perform 50 Knot Relay Test								-	-	-
6.5.4 Perform Redundant Control Module (RCM) Cooling Fan Test								-	-	-
6.5.5 Perform Triple Redundant Avionics Check	*							-	-	-
6.5.6 RCM Removal and Installation	*							b	-	-
6.5.7 Load RCM Software	*							-	-	-
6.5.8 Isolate Malfunctions	*							-	-	-
6.5.9 Perform Advanced Troubleshooting		*						-	-	-
6.6 COMMUNICATION, NAVIGATION, AND IDENTIFICATION SYSTEMS TR: Applicable Airframe TOs										
6.6.1 ARC-210										
6.6.1.1 System Theory										
6.6.1.1.1 Block 1	*							A	B	B
6.6.1.1.2 Block 5								A	A	A
6.6.1.2 Perform Operational Checks	*							-	-	-
6.6.1.3 Isolate Malfunctions	*							-	-	-
6.6.1.4 Perform Advanced Troubleshooting		*						-	-	-
6.6.2 Identification Friend or Foe (IFF)										
6.6.2.1 System Theory	*							B	B	B
6.6.2.2 Perform Operational Checks	*							2b	-	-
6.6.2.3 Loading / Zeroizing Mode 4 Codes	*							-	-	-

MQ-9 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.6.2.4 Isolate Malfunctions	*							-	-	-
6.6.2.5 Perform Advanced Troubleshooting		*						-	-	-
6.6.3 Embedded Global Positioning System (GPS) / Inertial Navigation System (INS) (EGI)										
6.6.3.1 System Theory	*							A	B	B
6.6.3.2 Perform Operational Checks	*							-	-	-
6.6.3.3 Loading / Zeroizing EGI Encryption Codes	*							-	-	-
6.6.3.4 Isolate Malfunctions	*							-	-	-
6.6.3.5 Perform Advanced Troubleshooting		*						-	-	-
6.6.4 Laser Altimeter										
6.6.4.1 System Theory	*							A	B	B
6.6.4.2 Perform Operational Check	*							-	-	-
6.6.4.3 Isolate Malfunctions	*							-	-	-
6.6.4.4 Perform Advanced Troubleshooting		*						-	-	-
6.7 FLIGHT CONTROL SYSTEM TR: Applicable Airframe TOs										
6.7.1 System Theory	*							B	B	B
6.7.2 Perform Operational Checks	*							-	-	-
6.7.3 Angle-of-Attack (AOA) Rigging Procedures	*							-	-	-
6.7.4 Flight Control Servos Rigging	*							1b	-	-
6.7.5 Flight Control Servos Removal and Installation	*							2b	-	-
6.7.6 Isolate Malfunctions	*							-	-	-
6.7.7 Perform Advanced Troubleshooting		*						-	-	-
6.7.8 Air Data										
6.7.8.1 System Theory								A	B	B
6.7.8.2 Perform Operational Checks	*							2b	-	-
6.7.8.3 Isolate Malfunctions	*							-	-	-
6.7.8.4 Perform Advanced Troubleshooting		*						-	-	-
6.7.9 Autopilot System										
6.7.9.1 System Theory	*							A	A	A
6.7.9.2 Perform Operational Check	*							-	-	-
6.7.9.3 Isolate Malfunctions	*							-	-	-
6.7.9.4 Perform Advanced Troubleshooting		*						-	-	-

MQ-9 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.8 SURVEILLANCE SYSTEMS (PAYLOAD) TR: Applicable Airframe TOs										
6.8.1 Multi-spectral Targeting System (MTS)										
6.8.1.1 System Theory	*							B	B	B
6.8.1.2 Perform Operational Check	*							2b	-	-
6.8.1.3 AN/DAS-1A MTS-B Turret Removal and Installation	*							1b	-	-
6.8.1.4 AN/DAS-1A MTS-B Turret Ballast Removal and Installation	*							-	-	-
6.8.1.5 Load MTS Turret / Electronics Unit Software		*						-	-	-
6.8.1.6 Remove / Install Circuit Cards		*						-	-	-
6.8.1.7 Isolate Malfunctions	*							-	-	-
6.8.1.8 Perform Advanced Troubleshooting		*						-	-	-
6.8.2 High Definition Encoder										
6.8.2.1 System Theory								A	B	B
6.8.2.2 Perform Operational Check								-	-	-
6.8.2.3 Configure System								-	-	-
6.8.2.4 Isolate Malfunctions								-	-	-
6.8.2.5 Perform Advanced Troubleshooting								-	-	-
6.8.3 Video Oriented Transceiver For Exchange of Information (VORTEX)										
6.8.3.1 System Theory	*							A	B	B
6.8.3.2 Perform Operational Check	*							-	-	-
6.8.3.3 Configure System	*							-	-	-
6.8.3.4 Isolate Malfunctions	*							-	-	-
6.8.3.5 Perform Advanced Troubleshooting		*						-	-	-
6.8.4 Dual Camera										
6.8.4.1 System Theory	*							A	B	B
6.8.4.2 Perform Operational Checks	*							-	-	-
6.8.4.3 Perform Dual Camera Alignment	*							-	-	-
6.8.4.4 Dual Camera Assembly Lens Cleaning								-	-	-
6.8.4.5 Isolate Malfunctions	*							-	-	-
6.8.4.6 Perform Advanced Troubleshooting		*						-	-	-
6.8.5 Lynx Synthetic Aperture Radar (SAR)										

MQ-9 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 Course	B 5 Skill Level CDC	C 7 Skill Level CDC
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials			
6.8.5.1 System Theory	*							A	B	B
6.8.5.2 Perform Operational Check	*							2b	-	-
6.8.5.3 AN/APY-8 Lynx Radar Gimbaled Antenna Assembly Removal and Installation	*							-	-	-
6.8.5.4 Isolate Malfunctions	*							-	-	-
6.8.5.5 Perform Advanced Troubleshooting		*						-	-	-
6.8.6 Hi-Jack System										
6.8.6.1 System Theory								-	-	-
6.8.6.2 Perform Operational Check								-	-	-
6.8.6.3 Isolate Malfunctions								-	-	-
6.8.6.4 Perform Advanced Troubleshooting								-	-	-
6.8.7 Air handler System										
6.8.7.1 System Theory								-	-	-
6.8.7.2 Perform Operational Check								-	-	-
6.8.7.3 Remove and Install LRUs								-	-	-
6.8.8 Remote Video Terminal System										
6.8.8.1 System Theory								-	-	-
6.8.8.2 Perform Operational Check								-	-	-
6.8.8.3 Isolate Malfunctions								-	-	-
6.8.8.4 Perform Advanced Troubleshooting								-	-	-
6.8.9 Aircraft Lighting System										
6.8.9.1 System Theory	*							A	-	-
6.8.9.2 Perform Operational Check	*							-	-	-
6.8.9.3 Perform Lights off range test	*							-	-	-
6.8.9.4 Perform Infrared Beacon Test	*							-	-	-
6.8.9.5 Isolate Malfunctions	*							-	-	-
6.8.9.6 Perform Advanced Troubleshooting		*						-	-	-
6.8.10 Fuel Systems										
6.8.10.1 System Theory	*							A	B	B
6.8.10.2 Perform Operational Check	*							-	-	-
6.8.10.3 Remove and Install External Fuel Tanks								-	-	-
6.8.10.4 Isolate Malfunctions	*							-	-	-
6.8.10.5 Perform Advanced Troubleshooting		*						-	-	-
6.9 AIRFRAME										
TR: Applicable Airframe TOs										
6.9.1 Wings								-	-	-
6.9.2 Diagonal-Tails								-	-	-

MQ-9 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	B	C
	5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level Course	5 Skill Level CDC	7 Skill Level CDC
6.9.3 Vertical Tail								-	-	-
6.10 INSPECTIONS TR: Applicable Airframe TOs										
6.10.1 Pre-Flight								-	-	-
6.10.2 Thru-Flight								-	-	-
6.10.3 Post-Flight								-	-	-
6.10.4 Combined Pre/Post-Flight								-	-	-
6.10.5 200 Hour	*							-	-	-
6.10.6 400 Hour	*							-	-	-
6.10.7 2,000 Hour								-	-	-
6.11 MQ-9 GROUND CONTROL STATION (GCS) TR: Applicable Airframe TOs										
6.11.1 GCS (general)										
6.11.1.1 GCS System Theory of Operation								A	B	B
6.11.1.2 Perform GCS Start-up / Shut-down Procedures								-	-	-
6.11.1.3 Perform GCS Safe for Maintenance Procedures								-	-	-
6.11.1.4 Operate GCS								-	-	-
6.11.1.5 GCS Software Versions								-	-	-
6.11.1.6 Multi-function Workstations Theory of Operation								-	-	-
6.11.2 GCS Inspections										
6.11.2.1 Scheduled GCS Inspections								-	-	-
6.11.2.2 Perform 28-Day Inspection								-	-	-
6.11.3 Pilot Sensor Operator (PSO) Workstation										
6.11.3.1 Theory of operation								-	-	-
6.11.4 C-band Ground Data Terminal (GDT) system										
6.11.4.1 Theory of operation								-	-	-
6.11.4.2 Perform operational checks										
6.11.4.2.1 Intercom Verification Test								-	-	-
6.11.5 Link Manager Assembly (LMA) / Secure Link Manager Assembly (SLMA) / Remote Split Operation (RSO) Theory of Operation								-	-	-
6.11.6 Exploitation Support Data (ESD) System Theory of Operation								-	-	-
6.11.7 GCS Communications System Theory of Operation								-	-	-

MQ-9 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
6.11.8 GCS Video Dissemination System Theory of Operation								-	-	-

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
Attachment 7 - F-35 Training Requirements NOTE 1 Proficiency codes in column 4A identify the task/knowledge requirement for resident training. When two codes are used (e.g., 2b/b), the second code indicates the level of training provided in the course due to equipment shortages or other constraints; dash (e.g., 2b/-) indicates the item will not be trained until the constraint is eliminated.										
7 F-35 AVIONIC SYSTEMS APPRENTICE/JOURNEYMAN/ CRAFTSMAN										
7.1 AIRCRAFT DATA LOAD TR: Applicable Airframe TOs										
7.1.1 System Theory	*							B	B	B
7.1.2 Perform										
7.1.2.1 Software Load/Unload	*							b	-	-
7.1.2.2 Theater Load/Unload	*							b	-	-
7.1.2.3 Protective Matting Installation/Removal								-	-	-
7.1.3 Portable Maintenance Aid (PMA)										
7.1.3.1 Overview	*							A	-	-
7.1.3.2 Connect/Disconnect	*							2b	-	-
7.1.3.3 Operate	*							2b	-	-
7.2 AUTONOMIC LOGISTICAL INFORMATION SYSTEM (ALIS) TR: Applicable Airframe TOs										
7.2.1 Overview								A	-	-
7.2.2 Components										
7.2.2.1 Joint Technical Data (JTD)	*							A	-	-
7.2.2.2 Computerized Maintenance Management System	*							A	-	-
7.2.2.3 Training Management System								A	-	-
7.2.2.4 Anomaly and Failure Resolution System (AFRS)	*							A	-	-
7.2.2.5 Communications, Maintenance Request (CRM)	*							A	-	-
7.2.2.6 ALIS Operation								A	-	-
7.3 AIRCRAFT ACCESS TR: Applicable Airframe TOs										
7.3.1 Position Maintenance Ladder								1b	-	-
7.3.2 Position Maintenance Stand								1b	-	-
7.3.3 Access Lower/Stow Boarding Ladder								1b	-	-
7.3.4 Canopy										
7.3.4.1 System Theory								B	B	B
7.3.4.2 Operate Canopy										
7.3.4.2.1 Electrical								1b	-	-

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.3.4.2.2 Manual								1b	-	-
7.3.5 Panels										
7.3.5.1 System Theory								-	-	-
7.3.5.2 Remove/Install/Open										
7.3.5.2.1 Easy Access Panels								2b/1b	-	-
7.3.5.2.2 Semi-permanent								2b/-	-	-
7.3.5.2.3 Permanent								2b/-	-	-
7.3.6 Weapons Bay Door (WBD)/ Infrared Countermeasure (IR CM) / Missile Segment Enhancement (MSE) Door										
7.3.6.1 System Theory								B	B	B
7.3.6.2 Operate/Open/Close										
7.3.6.2.1 WBD Hydraulic	*							2b	-	-
7.3.6.2.2 WBD Manual	*							-	-	-
7.3.6.2.3 IR CM Doors								-	-	-
7.3.6.2.4 MSE Door								-	-	-
7.4 AEROSPACE GROUND EQUIPMENT (AGE) TR: Applicable Equipment TOs										
7.4.1 System Theory								-	A	-
7.4.2 External Electrical Power								-	-	-
7.4.2.1 Perform Pre-use Inspection	*							1b/-	-	-
7.4.2.2 Connect/Disconnect	*							1b/-	-	-
7.4.2.3 Operate	*							1b/-	-	-
7.4.3 Hydraulic Cart										
7.4.3.1 Pre-use Inspection								-	-	-
7.4.3.2 Connect/Disconnect								-	-	-
7.4.3.3 Operate								-	-	-
7.4.4 Ext. Hyd. Pressure, System A								-	-	-
7.4.5 Ext. Hyd. Pressure, System B								-	-	-
7.4.6 External Cooling Air										
7.4.6.1 Pre-use Inspection	*							1b/-	-	-
7.4.6.2 Connect/Disconnect	*							1b/-	-	-
7.4.6.3 Operate	*							1b/-	-	-
7.4.7 Polyalphaolefin (PAO) Cart										
7.4.7.1 Pre-use Inspection	*							-	-	-
7.4.7.2 Connect/Disconnect	*							-	-	-
7.4.7.3 Operate	*							-	-	-
7.4.7.4 Service	*							-	-	-
7.4.8 External Low Pressure Air										
7.4.8.1 Pre-use Inspection								-	-	-
7.4.8.2 Connect/Disconnect								-	-	-

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.4.8.3 Operate								-	-	-
7.4.9 East West Crane										
7.4.9.1 Pre-use Inspection								-	-	-
7.4.9.2 Operate								-	-	-
7.5 AIRCRAFT SAFE FOR MAINTENANCE (SFM) TR: Applicable Airframe TOs										
7.5.1 System Theory								B	-	-
7.5.2 Perform										
7.5.2.1 Aircraft Chocking	*							1b	-	-
7.5.2.2 Electrical SFM	*							1b	-	-
7.5.2.3 Hydraulic SFM	*							1b	-	-
7.5.2.4 Cockpit SFM	*							1b	-	-
7.5.2.5 External SFM	*							1b	-	-
7.5.2.6 Static Ground Aircraft	*							1b	-	-
7.5.2.7 Safing Pins - Remove/Install	*							1b	-	-
7.5.3 Covers - Remove/Install										
7.5.3.1 Inlet/Exhaust								1b/-	-	-
7.5.3.2 Pitot System (Pitot Probe)								1b/-	-	-
7.5.3.3 Seat Pilot Connect								1b	-	-
7.5.3.4 Solar								1b/-	-	-
7.6 INTEGRATED POWER PACKAGE (IPP) OPERATION TR: Applicable Airframe TOs										
7.6.1 Ground	*							1b	-	-
7.6.2 Cockpit								-	-	-
7.7 AIRCRAFT TOWING TR: Applicable Airframe TOs										
7.7.1 System Theory								-	-	-
7.7.2 Team Member								-	-	-
7.7.3 Team Supervisor								-	-	-
7.7.4 Vehicle Operator								-	-	-
7.7.5 Brakes Inop								-	-	-
7.7.6 Parking								-	-	-
7.7.7 Mooring								-	-	-
7.8 AIRCRAFT REFUEL/DEFUEL TR: Applicable Airframe TOs										
7.8.1 System Theory								-	-	-
7.8.2 Refuel										
7.8.2.1 Power Off								-	-	-
7.8.2.2 Power On								-	-	-
7.8.3 Defuel Powered										
7.8.3.1 Power Off								-	-	-
7.8.3.2 Power On								-	-	-

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.8.4 Hot								-	-	-
7.9 FIBER OPTIC MAINTENANCE TR: Applicable Airframe TOs										
7.9.1 System Theory	*							B	B	B
7.9.2 Clean with compressed air	*							2b	b	-
7.9.3 Clean with Swab	*							2b	b	-
7.9.4 Inspect	*							2b	b	-
7.9.5 Use Test Equipment	*							-	a	-
7.9.6 System Prognostics and Health Management (PHM)/Troubleshooting		*						-	A	B
7.10 AIRCRAFT WASH TR: Applicable Airframe TOs										
7.10.1 Exterior 28 Day								-	-	-
7.10.2 Interior 28 Day								-	-	-
7.11 POWER THERMAL MANAGEMENT SYSTEM (PTMS) GENERAL - AIR CONDITIONING TR: Applicable Airframe TOs										
7.11.1 System Theory	*							B	B	B
7.11.2 Fault Isolate	*							-	-	-
7.11.3 PTMS System Functional Check	*							1b	-	-
7.11.4 Service										
7.11.4.1 IPP Oil								-	-	-
7.11.5 Canopy Seal										
7.11.5.1 Perform Pressurization Test								1b/-	-	-
7.11.5.2 Access/Remove/Install										
7.11.5.2.1 Pressure Relief Valve								1b	-	-
7.11.5.2.2 Canopy Rain Seal								-	-	-
7.11.5.2.3 Ducting								-	-	-
7.11.6 IPP Turbo machine - Access/Remove/Install/Adjust										
7.11.6.1 IPP Turbo machine								1b/-	-	-
7.11.6.2 Fuel Atomizer								-	-	-
7.11.7 IPP Air Cycle - Access/Remove/Install/Adjust										
7.11.7.1 Heat Exchanger Assemblies								1b/-	-	-
7.11.7.2 Valves								-	-	-
7.11.7.3 Sensors								-	-	-
7.11.8 IPP Fuel and Control - Access/Remove/Install/Adjust										
7.11.8.1 Fuel Metering Pump/Motor								-	-	-
7.11.8.2 Fuel Filter								-	-	-
7.11.9 IPP Ignition - Access/Remove/Install/Adjust										

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.11.9.1 Ignition Unit								-	-	-
7.11.9.2 Ignitor								-	-	-
7.11.9.3 Ignition Lead								-	-	-
7.11.10 IPP Air, Auxiliary Power Unit (APU) /Emergency Mode - Access/Remove/Install/Adjust										
7.11.10.1 IPP Intake Door								-	-	-
7.11.10.2 IPP Intake Door Controller								-	-	-
7.11.10.3 Valves								-	-	-
7.11.11 PTMS Controller - Access/Remove/Install/Adjust										
7.11.11.1 PTMS Controller								1b/-	-	-
7.11.11.2 AC Contactor Module								-	-	-
7.11.11.3 Valves								-	-	-
7.11.11.4 Sensors								-	-	-
7.11.11.5 Pressure Sensing Module								-	-	-
7.11.12 IPP Exhaust - Access/Remove/Install/Adjust										
7.11.12.1 Sensors								-	-	-
7.11.12.2 Power Turbine Exhaust Duct								-	-	-
7.11.13 IPP Oil System - Access/Remove/Install										
7.11.13.1 Lube Oil Module								-	-	-
7.11.13.2 Oil Filter								-	-	-
7.11.13.3 Sensors								-	-	-
7.11.13.4 Lube Oil Temp Level Module								-	-	-
7.11.14 Ventilation System - Access/Remove/Install										
7.11.14.1 Fans								1b/-	-	-
7.11.14.2 IPP Vent Fan Controller								-	-	-
7.11.14.3 TMS Fans	*							-	-	-
7.11.15 Ground Maintenance System - Access/Remove/Install										
7.11.15.1 Ground Service Check Valve								-	-	-
7.11.16 Pressure Control General - Access/Remove/Install										
7.11.16.1 Cockpit Pressure Relief Valve								1b	-	-
7.11.16.2 Cockpit Pressure Regulator Valve								1b/-	-	-
7.11.17 Heating General - Access/Remove/Install								-	-	
7.11.17.1 Valves								-	-	-
7.11.17.2 Sensors								-	-	-

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.11.18 Cooling General - Access/Remove/Install										
7.11.18.1 Cockpit Flow Valve								b/-	-	-
7.11.18.2 Defog Check Valve								b/-	-	-
7.11.18.3 Manual Defog Valve								b/-	-	-
7.11.19 Temperature Control General - Access/Remove/Install Sensors								-	-	-
7.11.20 Water Removal General - Access/Remove/Install										
7.11.20.1 On-Board Oxygen Generation System (OBOGS) Drain-Supply Air Valve								-	-	-
7.11.20.2 High Pressure Water Extractor								-	-	-
7.11.21 Control - Access/Removal/Install										
7.11.21.1 Sensors								-	-	-
7.11.21.2 Valves								-	-	-
7.11.22 Equipment Cooling RAM Air - Access/Remove/Install Isolation Valve								-	-	-
7.11.23 Cold Liquid Loop (CLL) Cooling - Access/Remove/Install										
7.11.23.1 Sensors								1b/-	-	-
7.11.23.2 Valves								-	-	-
7.11.23.3 PAO Filter Element								1b/-	-	-
7.11.23.4 CLL PAO Pump								-	-	-
7.11.23.5 PAO Reservoir								1b/-	-	-
7.11.23.6 PAO Dual Pump Controller								-	-	-
7.11.24 Service PAO CLL										
7.11.24.1 Fill								-	-	-
7.11.24.2 Bleed								-	-	-
7.11.25 Hot Liquid Loop (HLL) Cooling - Access/Remove/Install										
7.11.25.1 Oil/PAO Heat Exchanger								-	-	-
7.11.25.2 Hydraulic/PAO Heat Exchanger								1b/-	-	-
7.11.25.3 Valves								-	-	-
7.11.25.4 HLL PAO Pump								-	-	-
7.11.25.5 Temperature Sensor								-	-	-
7.11.26 Service PAO HLL										
7.11.26.1 Fill								-	-	-
7.11.26.2 Bleed								1b/-	-	-
7.12 ELECTRICAL POWER TR: Applicable Airframe TOs										
7.12.1 System Theory	*							B	B	B

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.12.2 Test	*							1b	-	-
7.12.3 Fault Isolate	*							1b	-	-
7.12.4 AC Generation General - Access/Remove/Install Non-Linear Invertor								1b/-	-	-
7.12.5 28 VDC Generation - Access/Remove/Install/Service										
7.12.5.1 28 VDC Battery	*							1b/-	-	-
7.12.5.2 270 VDC/28 VDC Battery	*							-	-	-
7.12.5.3 Battery Charger Control Unit								1b/-	-	-
7.12.5.4 270 VDC/28 VDC Converters								1b/-	-	-
7.12.6 270 VDC Generation - Access/Remove/Install/Service										
7.12.6.1 270 VDC Battery	*							1b	-	-
7.12.6.2 270 VDC Battery Charger/Control Unit								1b/-	-	-
7.12.6.3 160 Kw Engine Starter Generator (ESG)								1b	-	-
7.12.6.4 80 Kw ICCs								1b	-	-
7.12.6.5 Controls								1b/-	-	-
7.12.7 External Power General - Remove/Install										
7.12.7.1 External Power Receptacle								-	-	-
7.12.8 AC Electrical Load Distribution - Access/Remove/Install										
7.12.8.1 AC Power Panel								-	-	-
7.12.9 DC Electrical Load Distribution - Access/Remove/Install										
7.12.9.1 Electrical Distribution Units	*							1b/-	-	-
7.12.9.2 Power Distribution Controller								-	-	-
7.12.9.3 DC Power Panels								-	-	-
7.12.10 Electrical Power Cooling General - Access/Remove/Install										
7.12.10.1 Pump Module								1b/-	-	-
7.12.10.2 Filter Element								1b/-	-	-
7.12.10.3 Reservoir								-	-	-
7.12.10.4 ESG Oil Check Valve								-	-	-
7.12.10.5 ESG Oil Pressure Switch								-	-	-
7.13 EQUIPMENT FURNISHINGS GENERAL TR: Applicable Airframe TOs										
7.13.1 Test	*							-	-	-
7.13.2 Fault Isolate	*							-	-	-

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.13.3 Forward Panels - Access/Remove/Install										
7.13.3.1 Instrument Panel								-	-	-
7.13.3.2 Glare shields	*							-	-	-
7.13.3.3 Display Pedestal								-	-	-
7.13.3.4 Master Arm Control Panel								-	-	-
7.13.3.5 Landing Gear Control Panel								-	-	-
7.13.3.6 Jettison/Brake Control Panel								-	-	-
7.13.3.7 Auto Pitch Recovery Control Panel								-	-	-
7.13.4 Side Panels - Access/Remove/Install										
7.13.4.1 Consoles								-	-	-
7.13.4.2 Engine Run Control Panel								-	-	-
7.13.4.3 Inverter/Converter/Controller (ICC) / Integrated Power Package (IPP) /Battery Control Panel								1b/-	-	-
7.13.4.4 Flight Control Panel								-	-	-
7.13.4.5 Data Port								-	-	-
7.13.4.6 Miscellaneous Panels								-	-	-
7.13.4.7 Arm Rest Assembly								-	-	-
7.13.4.8 Master Zeorize Panel								-	-	-
7.14 FIRE PROTECTION SYSTEM GENERAL TR: Applicable Airframe TOs										
7.14.1 System Theory	*							B	B	B
7.14.2 Fault Isolate	*							1b	-	-
7.14.3 Clean UV/IR Lenses								b	-	-
7.14.4 Test	*							1b	-	-
7.14.5 Inspect		*						b	-	-
7.14.6 Bay Fire Detection - Access/Remove/Install										
7.14.6.1 Infrared Optical Fire Detectors (OFD)	*							1b	-	-
7.14.6.2 Ultraviolet ODF								-	-	-
7.14.7 Bleed Air Leak Detection - Access/Remove/Install										
7.14.7.1 Engine Bay Detectors								1b/-	-	-
7.14.7.2 IPP Exhaust Bay Detectors								-	-	-
7.14.7.3 IPP Bay								-	-	-
7.14.8 IPP Bay/IPP Exhaust Bay Fire Extinguishing - Access/Remove/Install										
7.14.8.1 Fire Suppressors	*							1b	-	-
7.14.8.2 Suppressor Cartridges								1b	-	-

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.14.9 Fire & Bleed Leak Controllers - Access/Remove/Install										
7.14.9.1 Access/Remove/Install								-	-	-
7.15 FLIGHT CONTROLS TR: Applicable Airframe TOs										
7.15.1 System Theory	*							B	B	B
7.15.2 Operate	*							-	-	-
7.15.3 Test	*							1b	-	-
7.15.4 Fault Isolate	*							-	-	-
7.15.5 Flight Compartment Controls - Access/Remove/Install										
7.15.5.1 Active Side Stick Control Assembly								1b	-	-
7.15.5.2 Control Stick Grip								1b/-	-	-
7.15.5.3 Inceptor Control Unit								1b/-	-	-
7.15.6 Pilot Rudder Control - Access/Remove/Install										
7.15.6.1 Rudder Pedal Assembly								1b/-	-	-
7.15.6.2 Rudder Pedal Release Cable								-	-	-
7.15.7 Control Surface Actuation - Access/Remove/Install										
7.15.7.1 Electronics Units								1b/-	-	-
7.15.7.2 Electro-Hydrostatic Actuator (EHA) Pampins								-	-	-
7.15.7.3 Actuators								-	-	-
7.15.8 Lift Augmenting										
7.15.8.1 Operate								1b/-	-	-
7.15.8.2 Leading Edge Flap Control Electronics Units - Access/Remove/Install								1b/-	-	-
7.15.9 Flight Control Data Recording - Access/Remove/Install										
7.15.9.1 Crash Survivable Memory Unit (CSMU)								1b/-	-	-
7.15.9.2 CSMU Battery/Beacon Assembly								1b/-	-	-
7.16 FUEL SYSTEM TR: Applicable Airframe TOs										
7.16.1 System Theory	*							A	A	A
7.16.2 Functional Checks								1b	-	-
7.16.3 Leak Checks								-	-	-
7.16.4 Fault Isolate								-	-	-

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.16.5 On Board Inert Gas Generation System Equipment - Access/Remove/Install										
7.16.5.1 Air Separation Module								-	-	-
7.16.5.2 Air/Water Separator Filter								-	-	-
7.16.5.3 Valves								-	-	-
7.16.5.4 Sensors								-	-	-
7.17 INFLIGHT ICE DETECTION TR: Applicable Airframe TOs										
7.17.1 System Theory	*							B	B	B
7.17.2 Test	*							1b	-	-
7.17.3 Fault Isolate	*							-	-	-
7.17.4 Ice Detection Controller - Access/Remove/Install								-	-	-
7.18 LANDING GEAR TR: Applicable Airframe TOs										
7.18.1 System Theory								B	A	A
7.18.2 Operate								-	-	-
7.18.3 Fault Isolation	*							-	-	-
7.18.4 Test										
7.18.4.1 Landing Gear Functional Test								-	-	-
7.18.4.2 Anti-skid Functional Test	*							1b/-	-	-
7.18.4.3 Position Indicators Functional Test								-	-	-
7.18.5 Brake and Anti-skid control - Access/Remove/Install										
7.18.5.1 Electronic Brake Control								1b/-	-	-
7.18.5.2 Wheel Speed Sensors								1b/-	-	-
7.18.6 Position Indicators - Access/Remove/Install										
7.18.6.1 WOW Switches								1b/-	-	-
7.18.6.2 Uplock/Downlock Switches								1b/-	-	-
7.18.6.3 Door Open Sensors								1b/-	-	-
7.18.6.4 Door Up Switches								1b/-	-	-
7.18.7 Arresting Hook Indications - Access/Remove/Install/Adjust										
7.18.7.1 Door Open Sensors								-	-	-
7.18.7.2 Door Up Switches								-	-	-
7.18.7.3 Hook Down Sensor								-	-	-
7.18.7.4 Hook Decompression Sensor/Switch								-	-	-
7.19 LIGHTS TR: Applicable Airframe TOs										
7.19.1 System Theory	*							B	B	B

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.19.2 Operate	*							-	-	-
7.19.3 Test	*							1b	-	-
7.19.4 Fault Isolation	*							1b	-	-
7.19.5 Flight Compartment Map Lights - Access/Remove/Install								1b/-	-	-
7.19.6 Weapon Bay Lights - Access/Remove/Install								1b/-	-	-
7.19.7 Exterior Lighting Control - Access/Remove/Install										
7.19.7.1 Forward Lighting Controller								1b/-	-	-
7.19.7.2 Wing Lighting Controller								-	-	-
7.19.8 Position/Strobe Light Assembly - Access/Remove/Install										
7.19.8.1 Position Strobe Light (Engines)								1b/-	-	-
7.19.8.2 Lens Assemblies								-	-	-
7.19.9 Inflight Refueling Lights - Access/Remove/Install										
7.19.9.1 Slipway Floods								1b/-	-	-
7.19.9.2 Slipway Panels								-	-	-
7.19.9.3 Slipway Strips								-	-	-
7.19.9.4 Landing/Taxi Light Assembly - Access/Remove/Install								1b/-	-	-
7.19.9.5 Dual Mode Formation Lights - Access/Remove/Install								1b/-	-	-
7.20 FLIGHT ENVIRONMENTAL DATA TR: Applicable Airframe TOs										
7.20.1 System Theory	*							B	B	B
7.20.2 Test	*							-	-	-
7.20.3 Fault Isolation	*							-	-	-
7.20.4 Probes										
7.20.4.1 Access/Remove/Install	*							1b/-	-	-
7.20.4.2 Inspect								-	-	-
7.20.5 Flush Port Modules										
7.20.5.1 Access/Remove/Install/Inspect								1b/-	-	-
7.20.6 Tactical Navigation System - Access/Remove/Install										
7.20.6.1 Cockpit Inertial Measurement Units (IMU)								1b/-	-	-
7.20.6.2 Mid-Fuselage IMUs								-	-	-
7.20.6.3 Inertial Electronics Unit (IEU)								1b/-	-	-
7.20.6.4 IMU Cold-plates								1b/-	-	-
7.21 OXYGEN TR: Applicable Airframe TOs										

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.21.1 System Theory	*							B	B	B
7.21.2 Test	*							1b/-	-	-
7.21.3 Fault Isolation	*							-	-	-
7.21.4 Clean	*							-	-	-
7.21.5 Service Connection Package										
7.21.5.1 Access/Remove/Install/Inspect								2b	-	-
7.21.5.2 Seat Portion								-	-	-
7.21.5.3 Battery								-	-	-
7.21.6 Oxygen Backup, Oxygen Bottle Assembly										
7.21.6.1 Access/Remove/Install								2b	-	-
7.21.6.2 Service								1b/-	-	-
7.21.6.3 Inspect								-	-	-
7.21.7 Oxygen Generation - Access/Remove/Install										
7.21.7.1 On-board Oxygen Generation System (OBOGS)								-	-	-
7.21.7.2 Water Separator Filter								1b/-	-	-
7.21.8 Mission Systems Integration										
7.21.8.1 Operate		*						-	-	-
7.22 INTEGRATED CORE PROCESSOR (ICP) TR: Applicable Airframe TOs										
7.22.1 System Theory	*							B	B	B
7.22.2 Operate	*							-	-	-
7.22.3 Test	*							1b	-	-
7.22.4 Fault Isolation	*							-	-	-
7.22.5 Wires/Tubes/Ducts/Fiber Optics										
7.22.5.1 Remove/Install								1b/-	-	-
7.22.5.2 Inspect	*							2b	-	-
7.22.5.3 Clean	*							2b	-	-
7.22.6 Circuit Cards - Access/Remove/Install	*							1b	-	-
7.22.7 ICP Rack - Access/Remove/Install								1b/-	-	-
7.22.8 Battery Assembly - Access/Remove/Install								2b/-	-	-
7.23 DISPLAY INDICATORS TR: Applicable Airframe TOs										
7.23.1 System Theory	*							B	B	B
7.23.2 Test	*							-	-	-
7.23.3 Fault Isolation	*							-	-	-
7.23.4 Helmet Mounted Display- Access/Remove/Install/Clean										

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.23.4.1 Helmet Display Management Computer								-	-	-
7.23.4.2 Fixed Camera								-	-	-
7.23.5 Aircraft Memory System (AMS) - Access/Remove/Install										
7.23.5.1 Data Transfer Cartridges	*							1b	-	-
7.23.5.2 Data Transfer Cartridge Receptacles								-	-	-
7.23.6 Standby Flight Displays - Remove/Install/Clean								1b/-	-	-
7.23.7 Maintenance Interface Panel - Remove/Install								-	-	-
7.23.8 Panoramic Cockpit Display - Remove/Install										
7.23.8.1 Display Unit								-	-	-
7.23.8.2 Electronics Unit								1b/-	-	-
7.24 VEHICLE SYSTEM PROCESSING (VSP) TR: Applicable Airframe TOs										
7.24.1 System Theory	*							B	B	B
7.24.2 Test	*							1b	-	-
7.24.3 Fault Isolation	*							-	-	-
7.24.4 Remote Input/Outputs - Access/Remove/Install								1b	-	-
7.24.5 Vehicle Management Computers										
7.24.5.1 Access/Remove/Install								1b	-	-
7.25 COMMUNICATION NAVIGATION IDENTIFICATION (CNI) TR: Applicable Airframe TOs										
7.25.1 System Theory	*							B	B	B
7.25.2 Fault Isolation	*							-	-	-
7.25.4 Test								1b	-	-
7.25.5 Load/Unload								1b	-	-
7.25.6 Antennas, Apertures, Arrays - Access/Remove/Install										
7.25.6.1 UHF Line of Sight (LOS) / Satellite Communication (SATCOM) Antennas								1b/-	-	-
7.25.6.2 L-Band / joint tactical combat-training system (JTCTS) Antennas								-	-	-
7.25.6.3 Radar Altimeter Antennas								1b/-	-	-
7.25.7 Instrument Landing System (ILS) Antennas										

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.25.7.1 Glideslope								1b/-	-	-
7.25.7.2 Localizer								1b/-	-	-
7.25.7.3 Marker Beacon								1b/-	-	-
7.25.8 Integrated Active Antenna Array (IAAA) Antennas (Multipurpose Airborne Data Link)								-	-	-
7.25.9 Global Positioning System (GPS) Antenna								1b/-	-	-
7.25.10 Communications, Navigation Identification (CNI) Remote Electronics - Remove/Install										
7.25.10.1 Inertial Navigation System								-	-	-
7.25.10.2 GPS Antenna Electronics								-	-	-
7.25.10.3 Antenna Switching Units								1b	-	-
7.25.10.4 Inflight Data link AIUs								-	-	-
7.25.10.5 Landing Aid Down Converter Electronics								-	-	-
7.25.10.6 Back-up Radio								1b/-	-	-
7.25.10.7 Audio Control Electronics								1b/-	-	-
7.25.10.8 Tail Cap Antenna Tri-plexers								-	-	-
7.25.11 CNI Rack - Access/Remove/Install										
7.25.11.1 Modules/Cards	*							-	-	-
7.25.11.2 Racks								-	-	-
7.25.11.3 Batteries								1b/-	-	-
7.26 POWER CONTROLS TR: Applicable Airframe TOs										
7.26.1 System Theory	*							B	B	B
7.26.2 Operate								-	-	-
7.26.3 Active Throttle Quadrant Assembly - Remove/Install/Inspect								1b/-	-	-
7.26.4 Throttle Grip - Remove/Install/Inspect								1b/-	-	-
7.27 WEAPONS CONTROL TR: Applicable Airframe TOs										
7.27.1 System Theory	*							B	B	B
7.27.2 Test	*							1b	-	-
7.27.3 Fault Isolate	*							-	-	-
7.27.4 Fuselage Remote Interface Units										
7.27.4.1 Remove								-	-	-
7.27.4.2 Install								-	-	-
7.27.5 Radar Aperture and Electronics Assembly										
7.27.5.1 System Theory	*							B	B	B

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.27.5.2 Access								2b/-	-	-
7.27.5.3 Remove								2b/-	-	-
7.27.5.4 Install								2b/-	-	-
7.27.5.5 Radar Racks								1b/-	-	-
7.27.5.6 Multifunctional Array								1b/-	-	-
7.27.5.7 Drain Power Supply Assemblies								-	-	-
7.27.5.8 Input Power Filter Assemblies								-	-	-
7.27.5.9 Antenna Driver Assemblies								-	-	-
7.27.5.10 Antenna Control Assemblies								-	-	-
7.27.5.11 Beam Steering Control Assemblies								-	-	-
7.27.5.12 EW/AIU								-	-	-
7.27.5.13 RF Receiver Assemblies								-	-	-
7.27.6 Radar Central Electronics Modules										
7.27.6.1 Access/Remove/Install								1b/-	-	-
7.28 ELECTRONICS WARFARE (EW) ELECTRONICS AND MODULES TR: Applicable Airframe TOs										
7.28.1 System Theory	*							B	B	B
7.28.2 Test								1b	-	-
7.28.3 Fault Isolate	*							-	-	-
7.28.4 EW Electronics/Components										
7.28.4.1 Access/Remove/Install								-	-	-
7.28.4.2 Modules	*							-	-	-
7.28.4.3 Racks								-	-	-
7.29 EW COUNTERMEASURES TR: Applicable Airframe TOs										
7.29.1 System Theory	*							B	B	B
7.29.2 Fault Isolate	*							-	-	-
7.29.3 Test	*							1b	-	-
7.29.4 Countermeasures System (CM) / Infrared Countermeasures System (IRCM) Controller										
7.29.4.1 Access/ Remove/Install								1b/-	-	-
7.29.5 IR Countermeasures - Access/Remove/Install										
7.29.5.1 Magazines								-	-	-
7.29.5.2 Door Actuators								-	-	-
7.29.5.3 Emergency B/U Valves								-	-	-
7.29.5.4 Door Position Sensing Switches								-	-	-

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.30 DISTRIBUTED APERTURE SYSTEM TR: Applicable Airframe TOs										
7.30.1 System Theory	*							B	B	B
7.30.2 Operate								-	-	-
7.30.3 Test								1b	-	-
7.30.4 Fault Isolate	*							-	-	-
7.30.5 DAS Sensors - Access/Remove/Install								1b/-	-	-
7.30.6 DAS Windows - Access/Remove/Install								1b/-	-	-
7.31 ELECTRO OPTICAL TARGETING SYSTEM (EOTS) TR: Applicable Airframe TOs										
7.31.1 System Theory	*							B	B	B
7.31.2 Operate								-	-	-
7.31.3 Test								1b	-	-
7.31.4 Fault Isolate	*							-	-	-
7.31.5 Aircraft Interface Structure - Access/Remove/Install										
7.31.5.1 EOTS Raising/Lowering	*							1b	-	-
7.31.5.2 EOTS Remove/Install								1b	-	-
7.31.5.3 Shroud								1b/-	-	-
7.32 TARGETING SENSOR ASSEMBLY TR: Applicable Airframe TOs										
7.32.1 System Theory	*							B	B	B
7.32.2 Access/Remove/Install								2b/-	-	-
7.32.3 Access/Remove/Install										
7.32.3.1 Gimbal Assembly								1b/-	-	-
7.32.3.2 Forward-Looking Infrared (FLIR) Integrated Detector Cooler Module (IDCA) Assembly								-	-	-
7.32.3.3 FLIR Optics Assembly								-	-	-
7.32.3.4 Fast Steering Mirror								1b/-	-	-
7.32.3.5 Laser Transmitter								1b/-	-	-
7.32.3.6 Laser Expander/Spot Tracker								-	-	-
7.32.3.7 Optics Ranger Receiver Laser								-	-	-
7.32.3.8 Electromagnetic Interference (EMI) Filter/Power Supply Assembly								1b/-	-	-
7.32.3.9 EOTS Servo/Power Supply ECA								-	-	-
7.32.3.10 EOTS Processor/Mechanism ECA								-	-	-

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.33 AVIONICS FUNDAMENTALS (iGap)										
7.33.1 FUNDAMENTALS										
7.33.1.1 Infrared and Laser								B	-	-
7.33.1.2 Logical Troubleshooting								B	-	-
7.33.1.3 Electronic Warfare / Countermeasures								B	-	-
7.33.2 GENERAL AIRCRAFT TASKS										
7.33.2.1 Batteries, Aircraft								A	-	-
7.33.2.2 Oxygen Systems								B	-	-
7.33.2.3 OBOGS								B	-	-
7.33.3 AIRCRAFT SYSTEMS TR: Applicable Airframe TOs										
7.33.3.1 Pitot-Static								B	-	-
7.33.3.2 Avionics Integrated Computer								B	-	-
7.33.3.3 Aircraft Built-in Test (BIT)								B	-	-
7.33.3.4 Attitude Heading Reference System (AHRS)								B	-	-
7.33.3.5 Integrated Cautions and Warnings								A	-	-
7.33.3.6 Door Control and Warning								A	-	-
7.33.3.7 Electro-Hydraulic								A	-	-
7.33.3.8 Fuel - Quantity Indicating								A	-	-
7.33.3.9 Display								A	-	-
7.33.3.10 FLIGHT CONTROL										
7.33.3.10.1 Automatic Flight Controls								B	-	-
7.33.3.10.2 Primary Flight Controls								A	-	-
7.33.3.10.3 Secondary Flight Controls (Flaps & Speed brakes)								A	-	-
7.33.3.10.4 Angle of Attack								B	-	-
7.33.3.11 COMMUNICATION, NAVIGATION, AND IDENTIFICATION (CNI)										
7.33.3.11.1 Communications Systems								B	-	-
7.33.3.11.2 Navigation Systems overview								A	-	-
7.33.3.11.3 Radar								B	-	-
7.33.3.11.4 Microwave Landing System								B	-	-
7.33.3.11.5 TACAN								B	-	-
7.33.3.11.6 Identification Friend or Foe (IFF)								B	-	-
7.33.3.12 ENVIRONMENTAL CONTROL										

F-35 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	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	Course	CDC	CDC
7.33.3.12.1 Bleed Air Environmental Control System (ECS) Distribution								B	-	-
7.33.3.12.2 Environmental Systems								B	-	-
7.33.3.12.3 Cockpit Pressurization								B	-	-
7.33.3.12.4 Canopy Seal System								A	-	-
7.33.3.12.5 Liquid Cooling Systems								A	-	-
7.33.3.12.6 Fire Warning / Over Heat								B	-	-
7.33.3.12.7 Fire Extinguishing System								B	-	-
7.33.3.12.8 Aircraft Ice - Windscreen Anti-ice								B	-	-
7.33.3.12.9 Aircraft Ice - Wing Deice								B	-	-
7.33.3.12.10 Anti-G suit system								A	-	-
7.33.3.12.11 Defog System								A	-	-
7.33.3.13 ELECTRICAL POWER										
7.33.3.13.1 AC Power Distribution System								A	-	-
7.33.3.13.2 Main Generator System								B	-	-
7.33.3.13.3 DC Power System								B	-	-
7.33.3.13.4 External Power System								B	-	-
7.33.3.13.5 Power Supplies								B	-	-
7.33.3.13.6 Circuit Protection								B	-	-
7.33.3.14 LANDING GEAR										
7.33.3.14.1 Landing Gear								A	-	-
7.33.3.14.2 Anti-Skid								A	-	-
7.33.3.14.3 Nose Gear Steering								A	-	-
7.33.3.15 ENGINE INDICATION										
7.33.3.15.1 Engine - Electrical Familiarization								A	-	-
7.33.3.15.2 Engine - RPM System								A	-	-
7.33.3.15.3 Engine - Turbine Inlet Temp								A	-	-
7.33.3.15.4 Engine - Ignition								A	-	-
7.33.3.16 NAVIGATION AND SYSTEM INTEGRATION										
7.33.3.16.1 Radar Altimeter								B	-	-
7.33.3.16.2 Inertial Navigation System (INS)								B	-	-
7.33.3.16.3 Global Positioning System (GPS)								B	-	-
7.33.3.16.4 Comm Transmitter/ Receiver Fundamentals								B	-	-
7.33.4 TOOLS AND TEST EQUIPMENT										
7.33.4.1 Special Tool - Bonding Meter								B	-	-
7.33.4.2 Lighting Systems								A	-	-

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AEROSPACE MAINTENANCE CRAFTSMAN

1. Tasks		4. Proficiency Codes Used To Indicate Training/Information Provided			
Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		(1) Crse	(1) CDC	(1) Crse	(2) CDC
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.					
AA.1.	MAINTENANCE PHILOSOPHY AND POLICY				
AA.1.1.	Aircraft and Equipment Readiness TR: AFI 21-101				A
AA.1.2.	Maintenance Concept TR: AFI 21-101 and AFI 21-129				A
AA.1.3.	Reliability and Maintainability (R&M) TR: AFI 21-101, AFI 21-118 and TO 00-35D-54				A
AA.1.4.	Operating Instructions (OI) TR: AFI 21-101 and AFI 33-360				A
AA.1.5.	Maintenance Information Systems (MIS) TR: AFCSM 21-556 Volume 2, AFI 21-101, AFI 21-116, and TO 00-20-2				B
AA.1.6.	Maintenance Metrics TR: AFI 21-103 and AFTTP 3-3				A
AA.1.7.	Maintenance Repair Priorities TR: AFI 21-101				A
AA.1.8.	Historical Aircraft and Equipment Records TR: AFI 21-101 and TO 00-20-1				A
AA.2.	MAINTENANCE ORGANIZATION KEY LEADER RESPONSIBILITIES				
AA.2.1.	Wing Commander (WG/CC) TR: AFI 21-101 and AFI 38-101				A
AA.2.2.	Wing Vice Commander (WG/CV) TR: AFI 21-101 and AFI 38-101				A
AA.2.3.	Maintenance Group Commander (MXG/CC) TR: AFI 21-101 and AFI 38-101				A
AA.2.4.	Maintenance Group Deputy Commander (MXG/CD) TR: AFI 21-101				A
AA.2.5.	MXG Superintendent (SUPT) TR: AFI 21-101				A
AA.2.6.	Squadron Commander (SQ/CC) TR: AFI 21-101				A
AA.2.7.	Maintenance Operations Officer (MOO)/Maintenance Superintendent (MX SUPT) TR: AFI 21-101				A
AA.2.8.	Flight Commander/Flight Chief TR: AFI 21-101				A
AA.2.9.	AMU OIC/Superintendent (SUPT) TR: AFI 21-101				A
AA.2.10.	Section NCOIC/Chief TR: AFI 21-101				B
AA.2.11.	Production Superintendent (Pro Super) TR: AFI 21-101				A
AA.3.	FUNCTIONS OF MAINTENANCE OPERATIONS SQUADRON (MOS)				
AA.3.1.	Maintenance Operations Flight (MOF) TR: AFI 21-101				A

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AEROSPACE MAINTENANCE CRAFTSMAN

1. Tasks		4. Proficiency Codes Used To Indicate Training/Information Provided			
Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		(1) Crse	(1) CDC	(1) Crse	(2) CDC
AA.3.2.	Maintenance Training Flight (MTF) TR: AFI 21-101 and AFI 36-2232				A
AA.3.3.	Programs and Resources Flight TR: AFI 21-101				A
AA.4.	FUNCTIONS OF AIRCRAFT/HELICOPTER MAINTENANCE SQUADRON (AMXS/HMXS)				
AA.4.1.	Aircraft Maintenance Unit (AMU) TR: AFI 21-101				A
AA.4.2.	Flightline Expediter TR: AFI 21-101				A
AA.4.3.	Aircrew and Maintenance Debrief Section TR: AFI 21-101				A
AA.4.4.	Aircraft Section TR: AFI 21-101				A
AA.4.5.	Specialist Section TR: AFI 21-101				A
AA.4.6.	Weapons Section TR: AFI 21-101				A
AA.4.7.	Support Section TR: AFI 21-101				A
AA.5.	FUNCTIONS OF MAINTENANCE SQUADRON (MXS)				
AA.5.1.	Accessories Flight TR: AFI 21-101				A
AA.5.2.	Aerospace Ground Equipment (AGE) Flight TR: AFI 21-101				A
AA.5.3.	Armament Flight TR: AFI 21-101				A
AA.5.4.	Avionics Flight TR: AFI 21-101				A
AA.5.5.	Fabrication Flight TR: AFI 21-101				A
AA.5.6.	Maintenance Flight TR: AFI 21-101				A
AA.5.7.	Munitions Flight TR: AFI 21-101				A
AA.5.8.	Propulsion Flight TR: AFI 21-101				A
AA.5.9.	Test, Measurement, and Diagnostic Equipment (TMDE) Flight TR: AFI 21-101				A
AA.6.	MAINTENANCE TRAINING				
AA.6.1	Types of Training TR: AFI 36-2232 and the ETCA site located at: https://etca.randolph.af.mil/				A
AA.6.2.	Training Documentation TR: AFI 21-101, AFI 36-2201 and AFI 36-2232				A
AA.6.3.	Training Business Area (TBA) TR: https://www.my.af.mil/imds/tpa/IMDSTWeb/ActionServlet				B
AA.6.4.	Special Certification Rosters TR: AFI 21-101				A
AA.6.5.	Maintenance Qualification Program (MQP) TR: AFI 21-101, AFI 36-2232 and AFD 10-9				A
AA.6.6.	Training Management TR: AFI 36-2201, AFI 36-2232, AFI 21-101 and AETCI 36-2601				

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AEROSPACE MAINTENANCE CRAFTSMAN

1. Tasks	4. Proficiency Codes Used To Indicate Training/Information Provided			
Knowledge And Technical References	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
	(1) Crse	(1) CDC	(1) Crse	(2) CDC
AA.6.6.1. Training Forecast				A
AA.6.6.2. Training Request				A
AA.6.6.3. Master Training Plan				A
AA.7. PERSONNEL RESOURCE MANAGEMENT				
AA.7.1. Unit Manpower Document (UMD) and Unit Personnel Manpower Roster (UPMR) TR: AFI 36-2110, AFI 38-201 and AFTTP 3-3				A
AA.7.2. Personnel Utilization TR: AFI 21-101				A
AA.8. MAINTENANCE SUPPLY				
AA.8.1. Logistics Readiness Squadron (LRS) Supply Support TR: AFI 21-101, AFMAN 23-110 (Vol. 1) and AFTTP 3-3				A
AA.8.2. Readiness Spares Packages TR: AFI 21-101, AFMAN 23-110 and AFTTP 3-3				A
AA.8.3. Consumables Management TR: AFI 21-101, AFMAN 23-110 and AFTTP 3-3				A
AA.8.4. Equipment Items TR: AFI 21-101, AFMAN 23-110 and AFMAN 23-220				A
AA.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
AA.8.6. Precious Metals Recovery Program TR: AFI 21-101 and AFMAN 23-110				A
AA.8.7. Supply Points TR: AFI 21-101 and AFMAN 23-110				A
AA.8.8. Local Manufacture TR: AFI 21-101				A
AA.8.9. Repair Cycle Assets TR: AFI 21-101 and AFMAN 23-110				A
AA.8.10. Supply Management Products TR: AFI 21-101 and AFMAN 23-110				A
AA.8.11. Tail Number Bins (TNB) TR: AFI 21-101 and AFMAN 23-110				A
AA.8.12. Maintenance Repair/Supply Delivery Priorities TR: AFI 21-101 and AFMAN 23-110				A
AA.8.13. Classified Assets TR: AFI 21-101, AFJI 31-102, TO 00-5-1 and TO 00-20-1				A
AA.8.14. Hazardous Materials TR: AFI 21-101, AFI 32-7086 and AFI 90-821				A
AA.8.15. Supply Deficiency and Discrepancy Reporting TR: AFI 21-101, AFMAN 23-110 and TO 00-35D-54				B
AA.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
AA.8.17. Maintenance Supply Liaison TR: AFI 21-101 and AFMAN 23-110				A
AA.9. TECHNICAL ORDER MANAGEMENT				
AA.9.1. Technical Orders Distribution Process TR: AFI 21-101, AFI 63-101, AFTTP 3-3 and TO 00-5-1				A
AA.9.2. Time Compliance Technical Orders (TCTO) TR: TO 00-5-15				A

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AEROSPACE MAINTENANCE CRAFTSMAN

1. Tasks		4. Proficiency Codes Used To Indicate Training/Information Provided			
Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		(1) Crse	(1) CDC	(1) Crse	(2) CDC
AA.9.3.	Technical Order Change Process TR: AFI 21-303				A
AA.9.4.	Technical Order Waivers TR: AFI 21-101 and AFI 21-303				A
AA.10.	MAINTENANCE REQUIREMENTS AND PROGRAMS				
AA.10.1.	Cannibalization Program TR: AFI 21-101 and AFTTP 3-3				A
AA.10.2.	Restricted Maintenance Areas TR: AFI 21-101				A
AA.10.3.	Red Ball Maintenance TR: AFI 21-101				A
AA.10.4.	Aircraft/Equipment Impoundment Program TR: AFI 21-101				A
AA.10.5.	Foreign Object Damage (FOD) Program TR: AFI 21-101, AFI 36-2232 and AFTTP 3-3				A
AA.10.6.	Dropped Object Prevention (DOP) Program TR: AFI 21-101				A
AA.10.7.	Tool Management TR: AFI 21-101				A
AA.10.8.	Tool Accountability TR: AFI 21-101				A
AA.10.8.1.	Marking and Tool Identification TR: AFI 21-101				A
AA.10.8.2	Locally Manufactured, Developed, or Modified Tools and Equipment TR: AFI 21-101				A
AA.10.8.3.	Lost Item/Tool Procedures TR: AFI 21-101				A
AA.10.9.	Maintenance Recovery Team TR: AFI 21-101				A
AA.11.	QUALITY ASSURANCE (QA) PROGRAM				
AA.11.1.	Maintenance Standardization and Evaluation Program (MSEP) TR: AFI 21-101 and AFTTP 3-3				A
AA.11.2.	QA Product Improvement Program TR: AFI 21-101				A
AA.11.3	Configuration Management (CM) and Modification Management TR: AFI 21-101				A