

AFSC 2A3X8 REMOTELY PILOTED AIRCRAFT MAINTENANCE SPECIALTY



CAREER FIELD EDUCATION AND TRAINING PLAN

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SUMMARY OF CHANGES. As a result of the 22 July – 9 August 2019 Specialty Training Requirements Team Workshop, the STSs contained in this Career Field Education and Training Plan (CFETP) have significant changes in Core Tasks, proficiency codes, and STS line number changes.

**CAREER FIELD EDUCATION AND TRAINING PLAN
REMOTELY PILOTED AIRCRAFT MAINTENANCE SPECIALTY
AFSC 2A3X8**

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**REMOTELY PILOTED AIRCRAFT MAINTENANCE SPECIALTY
AFSC 2A3X8A/B
CAREER FIELD EDUCATION AND TRAINING PLAN**

PART I

PREFACE

1. Career Field Education and Training Plan (CFETP). This CFETP is a comprehensive education and training document that identifies life-cycle education and training requirements, training support resources, and minimum Core Task requirements for 2A3X8, Remotely Piloted Aircraft Maintenance Specialty. The CFETP will provide personnel a clear career path to success and instills rigor in all aspects of career field training. This CFETP supersedes 2A3X8 CFETP published 1 October 2016 and CFETP 2A3X8C1, 22 May 2018. Information is available at Air Force Publications website.

NOTE: Civilians occupying associated positions will use Part II to support duty position qualification training.

2. CFETP Parts. The CFETP consists of two parts. Supervisors will use both parts to plan, manage, and control training. Using guidance provided in the CFETP will ensure individuals in this specialty receive effective and efficient training at the appropriate point in their career. This plan will enable us to train today's work force for tomorrow's jobs.

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

2.2. Part II includes the following: Section A identifies the Specialty Training Standard (STS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, wartime course/Core Task, and correspondence course requirements. Section B contains the course objective list and training standards supervisors will use to determine if Airmen have satisfied training requirements. Section C identifies available support materials, such as Qualification Training Package (QTP), which may be developed to support proficiency training. Section D identifies a training course index that supervisors can use to determine if resources are available to support training. Included here are both mandatory and optional courses. Section E identifies MAJCOM unique training requirements supervisors can use to determine additional training required for the associated qualification needs. At unit level, supervisors and trainers will use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

ABBREVIATIONS/TERMS EXPLAINED

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

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

Career Field Education and Training Plan. 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 training is budget defensible.

Continuation Training. This is 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 AFS. Only a percentage of critical tasks for each system are listed as mandatory Core Tasks. This gives units needed flexibility to manage their workforce training.

Electronic Training Record. A web-based application providing Air Force Warfighters with global, real-time visibility into the technical qualifications, certifications, and training status of logistics, communications and information professionals Air Force wide. Electronic training records support base, wing, and work center level training management activities by automating training management business processes. The primary users of electronic training records will be any personnel directly involved in base level training management and certification activities. Electronic training records were developed and maintained by 754th Electronic Systems Group, Installation and Logistics, Maintenance Flight (754 ELSG/ILM) at Maxwell-Gunter AFB.

Enlisted Specialty Training (EST). A mix of formal AETC training and OJT training 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.

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

Initial Skills Training. Initial skills training is the AFS specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level AFS Code (AFSC). This training is conducted at various locations by AETC.

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

Proficiency Training. Proficiency training is additional training, either in-residence or exportable advanced training courses, or OJT, provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade.

Qualification Training. Qualification training is actual hands-on task performance training designed to qualify an Airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills and knowledge required to do the job.

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

Specialty Knowledge Test (SKT). A test based on knowledge of each Air Force Specialty. The SKT is designed to sample an Airman's knowledge of his or her entire Air Force specialty and not a specific job. Specialty Knowledge Tests are developed at the AETC Airman Advancement Division, by Senior Noncommissioned Officers with extensive practical experience in their career fields.

Specialty Training Requirements Team (STRT). A forum that is convened and co-chaired on a recurring basis by the AFCFM and Training Pipeline Manager, designed to review the appropriate CFETP and its attachments. The purpose is to ensure currency, accuracy and completeness of content, to include specific formal career ladder training requirements.

Specialty Training Standard. An Air Force document that is published as an attachment to the appropriate CFETP that describes an 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 AFSC are taught in formal schools and exportable courses.

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

Upgrade Training (UGT). Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 3-, 5-, 7-, and 9-skill levels.

Utilization and Training Workshop (U&TW). A forum to determine education and training requirements, bringing together the expertise to establish the most effective mix of formal and on-the-job training for each AF Specialty skill level. Also used to create or revise training standards, and set responsibilities for providing training.

SECTION A - GENERAL INFORMATION

1. Purpose of the CFETP. This CFETP provides the information necessary for the AFCFM, MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. It identifies major resource constraints which impact full implementation of the desired career field training process. This CFETP outlines the training that individuals in AFSC 2A3X8A/B should receive in order to develop and progress throughout their career. This CFETP identifies initial skills, upgrade, qualification, advanced, and proficiency training requirements for each skill level in the specialty.

2. Use of the CFETP 2.1. The CFETP is the primary document used to identify life-cycle education and training requirements. It serves as a road map for career progression and outlines requirements that should be satisfied at appropriate points throughout the career path. The CFETP also specifies the mandatory task qualification requirements for award and maintenance of an AFSC. AETC training personnel will develop or revise formal resident, non-resident, field, and exportable training based upon requirements established by the users and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining the resources needed to provide the identified training. MFMs will ensure their training programs complement the CFETP mandatory initial, upgrade, and proficiency requirements. OJT, resident training, contract training, or exportable courses can satisfy these identified requirements. MAJCOM-developed training, to support this AFSC, must be identified for inclusion in this plan and must not duplicate other available training resources. Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.

3. Coordination and Approval of the CFETP. The AFCFM is the approval authority for the CFETP. The AFCFM for AFSC 2A3X8A/B will initiate an annual review of this document to ensure currency and accuracy. MAJCOM representatives and AETC training personnel will identify and coordinate on the career field training requirements. Using the list of courses in Part II, they will eliminate duplicate training.

SECTION B - CAREER PROGRESSION INFORMATION

1. Specialty Description:

1.1. Specialty Summary. Maintains aircraft, support equipment, forms, and records. Performs and supervises as a section chief, production superintendent, flightline expediter, crew chief, repair and reclamation technician, quality assurance inspector, and maintenance support functions. Related DoD Occupational Subgroup: 160000.

1.2. Duties and Responsibilities. Refer to Air Force Enlisted Classification Directory (AFECD) Parts I and II located on the Air Force Personnel Services page in the Air Force Portal. Use the following address to access the AFECD: https://gum-crm.csd.disa.mil/app/answers/detail/a_id/7504/kw/afecd/r_id/100169 or use the following instructions to access the AFECD: Enter the Air Force Portal, in the search box enter "AFECD" and when results are displayed, click-on "AFECD - Air Force Enlisted Classification Directory" and log-in.

2. Skill and Career Progression. Adequate training and timely progression from the apprentice to the superintendent skill level play an important role in the Air Force's ability to accomplish its mission. It is essential that everyone involved in training do their part to plan, develop, manage, and conduct an effective training program. The guidance provided in this part of the CFETP will ensure each individual receives viable training at appropriate points in their career. Use Table 5.1 *Enlisted Career Path* in conjunction with information below to manage career field skill progression.

2.1. Apprentice (3) Level. Upon completion of initial skills training, a trainee will work with a trainer to enhance their knowledge and skills. They will utilize task qualification training and available exportable courses for continued advancement. Once task qualified, a trainee may perform the task unsupervised. The 1-and 3-skill levels are assigned shred identifiers for initial-skills course scheduling and assignment purposes. Shred identifiers and Special Experience Identifiers (SEI) codes are provided in the AFECD.

2.2. Journeyman (5) Level. Individuals must complete formal 5-level OJT. This training involves completion of identified 5-level Core Task qualification training requirements. Available proficiency/supplementary training should be completed as early as duty permits. Five-levels are assigned shred identifiers for scheduling and assignment purposes, and may be assigned job positions such as quality assurance and various staff positions. Five-levels will be considered for appointment as unit trainers. Individuals may use the SKT references found at <https://www.omsq.af.mil/> to prepare for testing under the Weighted Airman Promotion System (WAPS). They should continue their education toward an associate's or higher educational degree from the Community College of the Air Force (CCAF) or other accredited institution.

2.3. Craftsman (7) Level. Individuals must complete formal 7-level OJT. This training involves completion of identified 7-level Core Task qualification training requirements. Available proficiency/supplementary training should be completed as early as duty permits. A craftsman can expect to fill various supervisory and management positions such as shift leader, element NCOIC, flight/section chief, and task certifier. They can also be assigned to work in staff positions. They should continue their education toward an associate's or higher educational degree from CCAF or other accredited institution. Once promoted to TSgt, the shred identifier drops from the Control AFSC and the individual can be assigned to other remotely piloted aircraft.

2.4. Superintendent (9) Level. Individuals promoted to SMSgt are required to attend the Senior Noncommissioned Officer Academy. Additional training in the areas of budget, manpower, resources, and personnel management should be pursued through continuing education. Completion of college courses in the pursuit of a higher-level educational degree is also recommended. Once promoted to SMSgt, an individual can be assigned to any legacy, 5th generation, or remotely piloted aircraft unit.

3. Training Decisions. The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Remotely Piloted Aircraft Maintenance Specialty (2A3X8A/B) career field. The spectrum includes a strategy for when, where, and how to meet these training requirements. The strategy should be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training. The following training decisions were made by MFMs and SMEs at the career field STRT held 22 July – 9 August 2019 at Sheppard AFB, TX.

3.1. Initial Skills. Changes were made to initial skills training. Several STS line items not identified previously were identified for inclusion in the mission-design-series (MDS) specific STS attachments and proficiency codes were assigned.

3.2. Five-Level Upgrade Requirements. Changes were made to 5-level Core Task upgrade requirements. Field Training Detachments (FTDs) will provide advanced aircraft system training.

3.3. Seven-Level Upgrade Requirements. New SSgts will complete advanced aircraft system training provided by FTDs.

3.4. Proficiency/Continuation Training (see pg 2/3). Additional knowledge and skill requirements, which are not taught through initial skills or upgrade training, are accomplished by unit training or FTD. The purpose of continuation training is to provide additional training, exceeding minimum upgrade training requirements, with emphasis on present and future duty positions. To provide additional training in this area, MAJCOMs must develop a continuation training program that ensures individuals in the aerospace maintenance career field receive the necessary training at the appropriate point in their career. The training program will identify both mandatory and optional training requirements. Refer to Part II, Section D, Training Course Index, of this CFETP for a listing of available AETC supplementary training courses.

4. CCAF/Higher Education and Advanced Certification Opportunities. Higher education and advanced certification is a personal choice that is encouraged for the professional development of the entire enlisted force. Listed below are some current opportunities:

4.1. CCAF Academic Programs. Enrollment in CCAF occurs upon completion of Basic Military Training (BMT). CCAF provides the opportunity to obtain an Associate in Applied Sciences Degree.

4.1.1. Degree Requirements: Prior to completing an associate degree, the 5-level must be awarded and the following requirements must be met:

	Semester Hours
Technical Education.....	24
Leadership, Management, and Military Studies.....	6
General Education.....	15
Program Elective.....	15
Technical Education; Leadership, Management, and Military Studies; or General Education	
Total.....	60

4.1.1.1. Technical Education (24 semester hours). A minimum of 12 semester hours of Technical Core subjects and courses must be applied and the remaining semester hours applied from Technical Core or Technical Elective subjects and courses. Completion of the initial skills resident training at Sheppard AFB satisfies all or part of the technical education requirement.

4.1.1.2. Leadership, Management, and Military Studies (6 semester hours). Professional military education and/or civilian management courses.

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

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

4.1.2. Trade Skill Certification. When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman (Supervisor), or Master Craftsman (Manager). All are transcribed on the CCAF transcript.

4.2. AETC Instructor. Individuals desiring to become an AETC Instructor should be actively pursuing an associate's degree. Special Duty Assignment (SDA) requires an AETC Instructor candidate to have a CCAF degree or be within one year of completion. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools. An AETC instructor can also be awarded an Associates of Applied Science, Instructor of Technology and Military Science degree.

4.3. Federal Aviation Administration (FAA) Airframe and Powerplant (A&P) Certification. Air Force aircraft maintenance technicians are eligible to pursue FAA A&P certification based on training and experience in accordance with Federal Aviation Regulation Part 65. The DoD established the Joint Service Aviation Maintenance Technician Certification Council (JSAMTCC) to standardize the eligibility and certification process for the military and provide direction and resources necessary to fill the gaps within military training and experience. The program consists of OJT, three Air University Online A&P Specialized Courses, documented evidence of 30 months practical experience in airframe and powerplant systems, and 4 years time-in-service. CCAF manages the AF A&P Certification Program. Technicians may enroll in the program and begin training once they have been awarded their 5-skill level. To learn more and enroll in the program, visit CCAF's website at <https://afvec.us.af.mil/afvec/Public/COOL/SearchCredentials.aspx> and search for "mechanic". The CCAF currently awards 30 semester hours for the FAA A&P certification and 18 semester hours for the FAA Airframe or Powerplant certification.

4.4. Other Certification Programs. CCAF is actively pursuing other licensure and certification opportunities related to specific career fields. To learn more about other certification opportunities visit CCAF's website at <https://afvec.us.af.mil/afvec/Public/COOL/SearchCredentials.aspx>.

5. Career Field Path:

NOTE: For the latest information go to the MyVector Career Planning Tool at <https://myvector.us.af.mil/myvector/Home>.

5.1. Enlisted Development Team. The Enlisted Development Team (EDT) is the deliberate force development steering group for the Maintenance Management Career Fields and provides

recommendations for the best qualified SNCOs into key leadership/development positions across the Air Force. The EDT results will be used to influence future assignments as they relate to aircraft maintenance Key Developmental Positions (KDPs). Example KDPs include the MAJCOM Weapons System Team Managers, Aircraft Battle Damage Repair/Expeditionary Depot Maintenance Functional Area Manager to name a few. The EDT also identifies other developmental opportunities for Maintenance Management SNCOs to facilitate their deliberate development. These recommendations or vectors are the EDT's collective recommendations for experience level, training and/or education opportunity, or position type that a member should be considered and seek out for professional growth. Vectoring will consist of recommendations for identified positions (i.e. development, leadership and strategic positions) within the Maintenance Management construct for which a member should be considered in subsequent assignments, but will not identify a specific location of assignment.

5.2. Enlisted Career Path. Table 5.1 identifies career milestones for the 2A3X8A/B Air Force Specialty.

Table 5.1 Enlisted Career Path (Airman Promotion Reference AFI 36-2670)				
Education and Training Requirements	Grade Requirements			
	Rank	Average Sew-on	Earliest Sew-on	High Year of Tenure (HYT)
Basic Military Training School				
Apprentice Technical School (3-Skill Level)	Amn A1C	6 months 10 months		
Upgrade to Journeyman (5-Skill Level) - Complete all appropriate 5- level Core Tasks.	Amn A1C SrA	10 months 3 years	28 months	8 Years
Airman Leadership School (ALS) -Must be a SrA with 48 months time in service or be an SSgt Selectee. -Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).	Trainer - Qualified and certified to perform the task to be trained. - Must attend formal AF Training Course. - Recommended by the supervisor.			
	Certifier - Be an SSgt select with a 5- skill level or civilian equivalent. - Must attend AF Training Course. - Be a person other than the trainer except for AFSCs, duty position, units and/or work centers with specialized training standardization and certification requirements.			
Upgrade To Craftsman (7-Skill Level) -Minimum rank of SSgt (Sel). -Time in training is determined by the Career Field Manager. -Complete Career Development Course if applicable. -Attend Craftsman course, if applicable.	SSgt (Sel)	7.5 years	3 years	15 Years
Noncommissioned Officer Academy (NCOA) - Must be a TSgt or TSgt Selectee. - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt	12.5 years	5 years	20 Years
	MSgt	16 years	8 years	24 Years
USAF Senior NCO Academy - Must be a SMSgt or SMSgt Selectee. - Resident graduation is a prerequisite for SMSgt sew-on (Active Duty Only).	SMSgt	19.2 years	11 years	26 Years
Upgrade To Superintendent (9-Skill Level) - Minimum rank of SMSgt.	CMSgt	21.5 years	14 years	30 Years

5.3. Base/Unit Education and Training Manager Checklist:

Table 5.2. Base/Unit Education and Training Manager Checklist		
Requirements for Upgrade to:	Y	N
Journeyman - Does apprentice possess 2A338A/B AFSC? - Has apprentice completed all appropriate 5-level Core Tasks identified in the CFETP? - Has apprentice met mandatory requirements listed in specialty description, ECD, and CFETP? - Has apprentice been recommended by their supervisor?		
Craftsman - Does journeyman possess 2A358A/B AFSC? - Has journeyman achieved the rank of SSgt? - Has journeyman completed all appropriate Core Tasks identified in the CFETP?		

TO: Squadron/CC

FROM: Squadron Training Manager

SUBJECT: Upgrade Trainee

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

 Training Manager

 Supervisor

SECTION C – SKILL-LEVEL TRAINING REQUIREMENTS

1. 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 STS at Part II, Sections A, B, and D of this CFETP.

1.1 USAF policy has changed to allow Air Force Career Field Managers to set time in training requirements. Aggregate data for the 2AXXX AFSCs shows the average of all upgrade core tasks completion at 8 months for 5-level and 3 months for 7-level. Therefore, Time in Training requirements (upgrade and retraining) are as below:

5 level - RegAF: no minimum/15 month maximum. ARC: no minimum/no maximum

7 level - RegAF: no minimum/8 month maximum. ARC: no minimum/no maximum

RegAF maximum time in training for 5-level is 15 months and 7-level is 8 months. When training exceeds the maximum, commanders, UTMs, supervisors, will conduct a training progress review with the trainee to determine the root cause. This training progress review is in addition to the review required IAW AFI 36-2670 at 24 months. In the 2AXXX AFSC, it is imperative training progress is evaluated early on as it leads to key decisions impacting people and mission. UTMs with commander's approval will place members in Training Status Code T (failure to progress) for a period of 90 days, then accomplish a re-evaluation. If members are not complete with training required after 90 days, commanders will determine whether to: 1. Waive maximum time in training and return the member to duty, 2. Retrain member into another AFSC, or 3. Separate the member for failure to progress. UTMs guide commanders with the appropriate use of training status codes when there are any training progression concerns.

1.2 The maintenance badge will be awarded in conjunction with skill-level upgrade. Maintainers currently wearing the badge that do not meet this new criteria may continue to wear the badge, essentially grandfathered-in, but all future award or upgrade of the badge will be at the prescribed skill-level:

Basic: Wear the basic badge after award of the 5-skill-level

Senior: Wear the senior badge after award of the 7-skill-level

Master: Wear the master badge after award of the 9-skill-level.

See AFI 36-2903 for guidance on the wearing of occupational badges.

2. Specialty Qualification Requirements.

2.1. Apprentice Level Training (3):

2.1.1. Specialty Qualification. This information will be located in the official specialty description in the AFECD.

2.1.1.1. Knowledge. Knowledge is mandatory of: principles applying to aircraft systems, flight theory, hydraulic principles, electrical theory, principles, concepts, and application of maintenance directives and data reporting, using technical data, technical order use. Air Force supply and procedures, and proper handling, use, and disposal of hazardous waste and materials.

2.1.1.2. Education. For entry into this specialty completion of high school or equivalent is mandatory. Completion of related vocational courses is highly desirable.

2.1.1.3. Training. For award of AFSC 2A338A/B, completion of a suffix specific basic aircraft maintenance course, as applicable is mandatory.

2.1.1.4. Experience. There is no experience necessary for entry into AFSC 2A338A/B.

2.1.1.5. Other. For entry into this specialty normal color vision as defined in AFI 48-123, *Medical Examination and Standards* is required. See Attachment 4 of the AFECD for additional entry requirements. Must maintain local network access IAW AFI 17-130, *Cybersecurity* and AFMAN 17-1301, *Computer Security*. Specialty requires routine access to Secret material or similar environment. For award and retention of AFSC 2A3X8A/B, completion of a current National Agency Check, Local Agency Checks and Credit (NACLIC) according to DODMAN5200.02_AFMAN16-1405, *Personnel Security Program Management*.

NOTE: Award of the 3-skill level without a completed NACLIC is authorized provided an interim Secret security clearance has been granted according to DODMAN5200.02_AFMAN16-1405.

2.1.2. Training Sources. Formal AETC initial skills courses provide the required knowledge and task proficiency training for award of the 3-skill level. Training includes common maintenance requirements (fundamentals), system theory and operation, system components, component removal and installation, introduction to maintenance concepts, general flight line maintenance practices, use of technical publications, maintenance documentation, and Aerospace Ground Equipment (AGE)/Support Equipment (SE) familiarization and use.

2.1.3. Implementation. Upon graduation from BMT, Airmen are assigned to the 82d Training Wing, 362d Training Squadron, to attend formal technical training appropriate to his or her end assignment and type aircraft. This training begins with fundamental maintenance training common to all aircraft maintenance apprentices within the specialty. This generic phase of training is followed by aircraft-specific maintenance training. Successful completion of formal technical training (listed in Part II, section D paragraph 2) results in the award of the 3-skill level.

2.2. Journeyman Level Training (5):

2.2.1. Specialty Qualification. This information is derived from the official specialty description in the AFECD.

2.2.1.1. Knowledge. In addition to the 3-level qualifications, a 5-level must possess the knowledge and skills necessary to maintain aircraft systems and associated systems. An individual must be task qualified on aircraft inspections, servicing, ground handling, troubleshooting, component

removal/repair/installation, and system component operational checks. Journeymen perform operational checks, component repair, and use and maintenance of test and support equipment. Individuals can apply the proper handling, use, and disposal of hazardous waste and materials IAW federal and local environmental standards.

2.2.1.2. Education: There are no formal education requirements for upgrade to AFSC 2A358A/B. However, progress toward a CCAF Associate's Degree or equivalent is highly encouraged.

2.2.1.3. Training: Completion of appropriate Core Tasks specified in the STS is mandatory.

2.2.1.4. Experience. Qualification in and possession of AFSC 2A338 with appropriate shred is required. Completion of the specified STS Core Tasks is required, as well as duty position requirements identified by the supervisor.

2.2.1.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards* is required. See Attachment 4 of the AFECD for additional entry requirements. Must maintain local network access IAW AFI 17-130, *Cybersecurity* and AFMAN 17-1301, *Computer Security*. Specialty requires routine access to Secret material or similar environment. For award and retention of AFSC 2A3X8A/B, completion of a current National Agency Check, Local Agency Checks and Credit (NACLC) according to DODMAN5200.02_AFMAN16-1405, *Personnel Security Program Management*.

2.2.3. Implementation. The units utilizing this STS and exportable courses perform training to the 5-level. Upgrade to the 5-level requires completion of appropriate 5-level Core Tasks as identified in the STS for one MDS.

2.2.4. Supervisor/Training Manager Input. Utilize Table 5.2 *Base/Unit Education and Training Manager Checklist* as applicable to facilitate upgrade actions.

2.3. Craftsman Level Training (7):

2.3.1. Specialty Qualification. This information is derived from the official specialty description in the AFECD.

2.3.1.1. Knowledge. In addition to the 5-level qualifications, an individual must possess advanced skills and knowledge of theory, concepts, and principles of aircraft maintenance. The 7-level must be able to supervise and train personnel to maintain 2A3X8A/B systems. They must be able to plan, schedule, and organize maintenance to ensure effective utilization of available resources. Qualification is required on advanced repair, inspection, troubleshooting, and diagnostic techniques. Historical documentation analysis is also required for all 7-levels.

2.3.1.2. Education. There are no additional education requirements beyond those defined for the apprentice level. However, progress toward a CCAF Associate's Degree or equivalent is highly encouraged.

2.3.1.3. Training. Completion of appropriate Core Tasks specified in the STS is mandatory.

2.3.1.4. Experience. Completion of appropriate 7-level Core Tasks as identified in the STS for one MDS, and qualification in and possession of AFSC 2A358A/B, as well as duty position requirements identified by the supervisor.

2.3.1.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards* is required. See Attachment 4 of the AFECD for additional entry requirements. Must maintain local network access IAW AFI 17-130, *Cybersecurity* and AFMAN 17-1301, *Computer Security*. Specialty requires routine access to Secret material or similar environment. For award and retention of AFSC 2A3X8A/B, completion of a current National Agency Check, Local Agency Checks and Credit (NACLC) according to DODMAN5200.02_AFMAN16-1405, *Personnel Security Program Management*.

2.3.2. Training Sources. Seven-level upgrade training will be completed and conducted by certified trainers using AF Core Tasks and unit/MAJCOM specific courses.

2.3.3. Supervisor/Training Manager Input. Utilize Table 5.2 *Base/Unit Education and Training Manager Checklist* as applicable to facilitate upgrade actions.

2.3.4. Implementation. Units utilize the STS to perform training to the 7-level. Upgrade to the 7-level requires completion of all Core Tasks as identified in the STS for one MDS, and promotion to SSgt.

2.4. Superintendent Level Training (9):

2.4.1. Specialty Qualification. This information is derived from official specialty description in the AFECD.

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

2.4.1.2. Education. Not used.

2.4.1.3. Training. Not used.

2.4.1.4. Experience. For award of AFSC 2A390, qualification in and possession of AFSC 2A373, 2A374, 2A375, 2A377, 2A378 is mandatory. Experience is mandatory in the following areas: the management of maintenance efforts on aircraft and aircraft systems; evaluating maintenance, interpreting and resolving technical problems; analyzing system and component failures and inspection results; and the management and projection of funds to support maintenance efforts.

2.4.1.5. Other. For award and retention of these AFSCs: Must maintain local network access IAW AFI 17-130, *Cybersecurity* and AFMAN 17-1301, *Computer Security*. Specialty requires routine access to Secret material or similar environment. For award and retention of AFSCs 2A300/2A390, completion

of a current National Agency Check, Local Agency Checks and Credit (NACLC) according to DODMAN5200.02_AFMAN16-1405, *Personnel Security Program Management*.

2.4.2. Training Sources. No formal training is required. Qualification training and experience inherent in career specialty job performance are desired sources of training.

2.4.3. Implementation. The 9-level will be awarded after promotion to SMSgt.

SECTION D - RESOURCE CONSTRAINTS

There are no resource constraints identified for training in this AFSC.

SECTION E - TRANSITIONAL TRAINING GUIDE

There is currently no transition training requirement. This area is reserved.

PART II

SECTION A – SPECIALTY TRAINING STANDARD

1. Implementation. These STS attachments will be used for technical training provided by AETC for classes beginning after 1 April 2021.

2. Purpose. As prescribed in AFI 36-2670, this STS:

2.1. Column 1 (Task, Knowledge, and Technical Reference) lists the most common tasks, knowledge, and Technical References (TR) necessary for Airmen to perform duties in the 3-, 5-, and 7-skill level.

2.2. Column 2 (Core Tasks) identifies, by either 5 or 7, specialty-wide training requirements. Core Tasks identified with a 5R or 7R are optional for the AFRC Traditional Reservist (TR) and the ANG Drill Status Guardsman (DSG): for full-time members, Core Tasks are required. As a minimum, certification on all AFCFM directed Core Tasks applicable to the specialty must be completed for skill level upgrade. Exemptions:

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

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

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

2.4. Column 4 (Proficiency Codes) shows formal training and correspondence course requirements. Also shows the proficiency to be demonstrated on the job by the graduate as a result of training on the task and knowledge and the career knowledge provided by the correspondence course.

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

4. Job Qualification Standard. The STS becomes a Job Qualification Standard (JQS) for OJT when placed in AF Form 623, *On-The-Job Training Record*, and used according to AFI 36-2670. For OJT, the tasks in column 1 are trained and qualified to the go/no go level. "Go" means the individual can perform the task without assistance and meets local requirements for accuracy, timeliness, and correct procedures. When used as a JQS, the following requirements apply:

4.1. Documentation. Document and certify completion of training IAW AFI 36-2650 and 36-2670. Units converted to electronic training records will use this system to document training. IMDS or G081 will continue to be used to document ancillary training and other training currently maintained in these data systems. Use of Part II and Attachments 1 and 2 of this CFETP are mandatory in individual training records where paper training records are the primary method of documenting training.

4.1.1. Transcribing from Old CFETP to New CFETP. All AFJQs and previous CFETPs are replaced by this CFETP; therefore, transcribing of all training records to this CFETP STS is mandatory. Use this CFETP STS (or automated STS) to identify and certify all past and current qualifications. Document and certify all previous and current training IAW AFI 36-2650 and AFI 36-2670.

5. STS. A guide for development of promotion tests used in the WAPS. SKTs are developed at the AETC Airman Advancement Division by Senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the Enlisted Promotions References and Requirements Catalog. Individual responsibilities are in AFMAN 36-2664, *Personnel Assessment Program*. WAPS is not applicable to the Air National Guard or Air Force Reserve.

6. Recommendations. Report unsatisfactory performance of individual course graduates to the AETC training manager at 362 TRS, 613 10th Ave, Sheppard AFB TX, 76311-2352, DSN 736-1825, or the 82TRG Customer Service Information Line at DSN 736-5236 or e-mail: 82trgcsil@us.af.mil Please reference specific STS paragraphs.

SECTION B - COURSE OBJECTIVE LIST (COL)

1. Introduction. Each proficiency coded STS task or knowledge item taught at the technical school is measured through the use of an objective. An objective is a written instruction for the student so he or she knows what is expected of them to successfully complete training on each task. Each objective is comprised of a condition, behavior, and standard that states what is expected of the student for each task. The condition is the setting in which the training takes place (i.e. TOs, type of equipment, etc.). The behavior is the observable portion of the objective (i.e. perform an operational check). The standard is the level of performance that is measured to ensure the STS proficiency code level is attained. AETC course objectives and associated information are published in the Plan of Instruction (POI) for each of the courses identified in Section D, below, *Training Course Index*.

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

3. Standard. The minimum standard for written examinations is 70%. Standards for performance measurement are indicated in the objective and delineated on the individual progress check checklist. The checklist is used by the instructor to document each student's progress, on each task. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or

part of the behavior until satisfactory performance is attained. Students must satisfactorily complete all PCs prior to taking the written test.

4. Proficiency Level. Review column 4A of the STS to determine the proficiency level of a particular task or knowledge item. Review the course objective list to determine which STS item the objective supports. Review the proficiency code key in the STS Attachment 1 of this CFETP for an explanation of the proficiency codes. Most task performance is taught to the “2b” proficiency level which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step-by-step procedures for doing the task. For tasks that are taught to the “3c” proficiency level, students can do all parts of the task and only require a spot check on completed work (competent). The student can also identify why and when a task must be done and why each step is needed.

5. Course Objectives List. A detailed listing of initial skills or craftsman courses are listed in Section D tables 2.1 and 2.2 and a complete list of objectives may be obtained by submitting a written request to the identified course OPR in Section D, paragraph 1. Course descriptions can be found on line in the Education and Training Course Announcements (ETCA). The URL for ETCA is:
<https://cs2.eis.af.mil/sites/app10-ETCA>.

SECTION C - SUPPORT MATERIAL

1. Support Material. Interactive Courseware (ICW) is available from the 367 TRS/TRSS at Hill AFB, Utah. Visit their web site at <https://367trss.hill.af.mil/Home/Index> to view available courses. Their customer service number is DSN 586-4014. To request ordering information on hardware, your MAJCOM training POC (for ACC, AMC, and ANG) is the first stop. For personnel in other MAJCOMs, contact them directly and they will provide you the information required for purchasing the item through them.

SECTION D - TRAINING COURSE INDEX

1. Purpose. This section of the CFETP identifies training courses available for the 2A3X8A/B specialty and shows how the courses are used by each MAJCOM in their career field training programs. For further information on the following courses, contact the OPR as indicated:

OPR: 362 TRS/TRR
613 10th Avenue
Sheppard AFB, TX 76311-2352
DSN 736-1825

372 TRS/TRR
917 Missile Rd, Suite 200
Sheppard AFB, TX 76311-2852
DSN 736-4794

For questions regarding training courses or STS content, contact the course training manager or the respective Training Group (TRG) Customer Service Information Line:

82 TRG: DSN 736-5236
e-mail: 82trgcsil@us.af.mil

982 TRG: DSN 736-4687

2. Air Force In-resident Courses:

Table 2.1 Enlisted Initial Skills Courses					
Course Number	Course Title	Location	OPR	USER	Course Length
J3ABR2A338A051F	Remotely Piloted Aircraft Maintenance Apprentice, MQ-9 (Attachments 2 and 3)	Sheppard AFB, TX	362 TRS	USAF	61
J3ABR2A338B035E/ J3AQR2A338B035E	Remotely Piloted Aircraft Maintenance Apprentice, RQ-4 (Attachment 2 only)	Sheppard AFB, TX	362 TRS	USAF	24

Right Time Training

Right Time Training (RTT) is a new approach that focuses on providing new Airmen the right skill set, at the right time in their career, and at the right location for them to make immediate impact for mission execution. Upon completion of the RTT course, Airmen will be capable of completing targeted maintenance tasks to support daily sortie generation.

Under the RTT construct, Active Duty Airmen will be awarded their 3-level qualification in their respective AFSC prior to departing Sheppard AFB through a Type-3 course. After completion of this course, the Airmen will subsequently attend targeted weapons system training during a required Type-4 RTT course taught by the Field Training Detachment (FTD) at their first permanent duty location. Active Duty en-route Airmen, installations with low flow 3-level crew chiefs, and Airmen assigned where there are no FTDs located will attend Type-4 RTT courses at regionalized locations.

ANG and AFRC students will be awarded their 3-level qualification through a Type-4 FTD course at regionalized locations.

RTT tasks are selected by the Lead MAJCOM in coordination with using MAJCOMs and incorporated into a Type-4 FTD course for each weapons system. The course will be identified on each command's MAJCOM Mandatory Course Listing (MMCL), which are developed and approved per weapons system by MAJCOM Functional Managers (MFM). Once the MMCL requirements are established by the MFM, the FTD will train and qualify Airmen within each respective aircraft RTT course.

When available, the following courses are required for all Active Duty Airmen in their respective AFSC/Shred:

1. J4AMP2A338B035X, RQ-4 Remotely Piloted Aircraft Maintenance (Right Time Training)

When available, the following course is required for all ANG and ARC in their respective AFSC:

1. J4ABP2A338B035X, RQ-4 Remotely Piloted Aircraft Maintenance (Right Time Training)

Ultimately, the goal of Right Time Training is to provide the required skills needed for the operational environment. Each Airman will receive the right training applicable to their host’s mission at the right time in their career, making them immediately impactful to daily sortie generation. Lastly, by eliminating dwell time between training and their first day on the job, Airmen will be more efficient at retaining learned skills and will prove more effective at mission execution.

FTD will sign off tasks in which the student reaches the required (3c) proficiency level identified by the Lead MAJCOM MFM. FTD retains the right to qualify/not qualify tasks in TBA based on the instructor’s assessment of the student’s ability to translate training received into performance in an operational environment. For those tasks trained to the required level, but the Airman does not meet the qualification condition, the FTD instructor will document a training start date in TBA or an AF Form 797 and add comments detailing why the qualification was not accomplished.

NOTE: For further information on the in-residence courses, contact the OPR as indicated.

OPR: 362 TRS/TRR 613 10th Avenue Sheppard AFB, TX 76311 DSN 736-1825	372 TRS 917 Missile Rd, Suite 200 Sheppard AFB, TX 76311 DSN 736-4797	373 TRS 917 Missile Rd, Suite 200 Sheppard AFB, TX 76311 DSN 736-4750
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Website: <https://cs2.eis.af.mil/sites/app10-ETCA>

Table 2.2 Supplemental Courses			
Supplemental Course Number	Course Title	OPR	User
J3AZR2AXXX 0W1B	Weight and Balance Practical	362 TRS	USAF
J7AZT2AXXX 0W1B	Weight and Balance Practical (MTT)	362 TRS	USAF
J3AAR2AXXX 048B	Crash Damaged, Disabled Aircraft Recovery	362 TRS	USAF

OPRs: 362 TRS/TRR
 613 10th Avenue
 Sheppard AFB, TX 76311-2352
 DSN 736-1825

3. Exportable Courses:

367 TRSS course information can be found on their web-site: <https://367trss.hill.af.mil/Home/Index>

The following course can be found on the ETCA website, available through AETC Advanced Distributed Learning Service (ADLS):

OPR: 362 TRS/TRR
 613 10th Avenue
 Sheppard AFB, TX 76311-2352

Table 3.1 Exportable Courses			
Course Number	Course Title/Media	OPR	User
J6ANW2AXXX 0W1A	Weight and Balance (General)	362 TRS	USAF

4. Courses Under Development/Revision. Courses currently under development are the Maintenance Functional Development, Quality Assurance Aircraft and Career Development Program courses.

SECTION E - MAJCOM UNIQUE REQUIREMENTS

For MAJCOM unique requirements, refer to the MAJCOM mandatory course lists.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

WARREN D. BERRY
 Lieutenant General, USAF
 DCS/Logistics, Engineering and Force Protection

4 STS Attachments

1. Proficiency Code Key
2. Aircraft Maintenance Common Training Requirements
3. 2A3X8A, MQ-9 Qualitative Requirements
4. 2A3X8B, RQ-4 Qualitative Requirements

Proficiency Code Key

Name Of Trainee		
Printed Name (<i>Last, First, Middle Initial</i>)	Initials (Written)	SSAN (last four only)
Printed Name Of Training/Certifying Official And Written Initials		
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	

QUALITATIVE REQUIREMENTS

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

Explanations:

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

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

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

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

Note: All tasks and knowledge items taught in the initial skills course are trained during war time.

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AIRCRAFT MAINTENANCE COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment * / SEH+	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

NOTE 1: Users are responsible for annotating training references pending STS revision.

NOTE 2: All task/knowledge items taught in the initial skills course are trained during war time.

NOTE 3: Items in column 2 identified with an 5R or 7R are optional for the AFRC Traditional Reservist (TR) and the ANG Drill Status Guardsman (DSG); for full-time members, Core Tasks are required.

A2.1.	CAREER LADDER PROGRESSION TR: AFI 36-2101												
A2.1.1	Progression in career ladder							A					
A2.1.2	Duties of AFS							A					
A2.2.	OPERATIONS SECURITY (OPSEC) VULNERABILITY OF AFSC TR: AFI 10-701												
A2.2.1	Purpose of OPSEC							A					
A2.3.	AF CONSOLIDATED OCCUPATIONAL SAFETY INSTRUCTION TR: AFI 21-101, AFMANs 91-203 and 11-218; TOs 00-25-172, 1-1-691, and applicable aircraft TOs												
A2.3.1	Housekeeping consistent with safety of personnel and equipment							A					
A2.3.2.	Safety precautions pertaining to aircraft maintenance												
A2.3.2.1	Engine air intake and exhaust							A					
A2.3.2.2	High intensity sound							A					
A2.3.2.3	Turbine, propeller, and rotor plane of rotation							A					
A2.3.2.4	Radio frequency radiation							A					
A2.3.2.5	Ground handling of aircraft							A					
A2.3.2.6	Hot brakes							A					
A2.3.2.7	Use of tools and equipment							A					
A2.3.2.8	Servicing aircraft systems							A					
A2.3.2.9	Cleaning agents							A					
A2.3.2.10	Solvents							A					
A2.3.2.11	Lubricants							A					
A2.3.2.12	High pressure gasses							A					
A2.3.2.13	Aircraft explosive equipment							A					
A2.3.2.14	Composite materials							A					
A2.3.2.15	Maintenance resource management							-					
A2.3.2.16	Electrostatic hazards, static grounding and bonding TR: TOs 00-25-172 and 00-25-234							A					
A2.3.2.17	Purpose of fall protection/prevention							A					
A2.3.3.	Portable ground fire extinguishers TR: AFI 32-2001; TO 00-25-172												
A2.3.3.1	Perform pre-use inspection	5						2b					

AIRCRAFT MAINTENANCE COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment * / SEH+	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A2.3.3.2	Position								-			
A2.3.3.3	Operate								-			
A2.3.4	Aircraft Damage Prevention											
A2.3.4.1	Foreign Object Damage (FOD) prevention program								A			
A2.3.4.2	Dropped object prevention program								A			
A2.3.5.	Hazardous chemicals TR: AFI 90-821 and AFMAN 91-203											
A2.3.5.1	Use								A			
A2.3.5.2	Disposal								A			
A2.3.5.3	Hazard communication training program								-			
A2.3.5.4	Hazardous material handling procedures								A			
A2.3.6	AFTO Form 492, Mx Warning Tag TR: TO 00-20-1								A			
A2.4.	MAINTENANCE DIRECTIVES, REFERENCES, & INSTRUCTIONS TR: AFI 33-360; TO 00-5 series as applicable											
A2.4.1	TO system								A			
A2.4.2	Air Force manuals and instructions								A			
A2.4.3	Use technical orders (except HH-60)								1b			
A2.4.4	TO improvement reporting								-			
A2.4.5	Technical order management								-			
A2.5.	SUPERVISION TR: AFI 21-101 and AFTTP 3-4.21V1											
A2.5.1	Plan work schedules								-			
A2.5.2	Schedule maintenance								-			
A2.5.3	Supervise personnel accomplishing maintenance								-			
A2.5.4.	Establish											
A2.5.4.1	Work methods								-			
A2.5.4.2	Work controls								-			
A2.5.4.3	Performance standards								-			
A2.5.5	Evaluate work performance of subordinate personnel								-			
A2.6.	TRAINING TR: AFIs 36-2650 and 36-2670											
A2.6.1	Evaluate personnel for training								-			
A2.6.2	Plan and supervise OJT								-			
A2.6.3	Counsel trainees on training progress								-			
A2.6.4	Prepare AF Form 797								-			
A2.6.5	Document training records								-			

AIRCRAFT MAINTENANCE COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References		2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
		Core/Cert ^	Deployment * / SEH+	A	B	C	D	E	A	B	C	D
				Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl
A2.6.6	Purpose and use of Career Field Education and Training Plan (CFETP)								A			
A2.7	MAINTENANCE MANAGEMENT TR: AFIs 21-101, 21-103 and 90-201; AFMAN 23-122											
A2.7.1	Basic functions within maintenance								A			
A2.7.2	Resource management								-			
A2.7.3	Personnel management								-			
A2.7.4	Maintenance incident investigation and prevention								-			
A2.7.5	Determine and report aircraft status								-			
A2.7.6	Maintenance Performance Indicators (MPI) relationships								-			
A2.8.	MAINTENANCE DATA DOCUMENTATION (MDD) TR: AFI 21-101; TO 00-20 Series; Applicable aircraft -06 Work Unit Code Manuals; Integrated Maintenance Data System (IMDS) on-line help screens; G0-81 on-line help screens											
A2.8.1	MDD Fundamentals								A			
A2.8.2.	Aircraft and supporting maintenance records											
A2.8.2.1	Purpose								A			
A2.8.2.2	Automated Forms								A			
A2.8.2.3	Document AFTO Form 781H (except HH-60)								1b			
A2.8.2.4	Document AFTO Form 781A (except HH-60)								1b			
A2.8.2.5	Document AFTO Form 781J (except HH- 60)								1b			
A2.8.2.6	Document AFTO Form 781K (except HH-60)								1b			
A2.8.2.7	Document AFTO Form 781F (except HH- 60)								1b			
A2.8.2.8	Document other AFTO 781 series forms								-			
A2.8.2.9	Document AFTO Form 244/245								1b			
A2.8.2.10	Document AFTO Form 350 (except HH-60)								1b			
A2.8.2.11	Document AFTO Form 349								-			
A2.8.2.12	Document AFTO Form 95								-			
A2.8.3.	Maintenance Information Systems (MIS)											
A2.8.3.	Purpose								A			
A2.8.3.2.	Job data documentation (JDD)											
A2.8.3.2.1	Purpose								-			
A2.8.3.2.2	Access JDD								-			
A2.8.3.2.3	Create maintenance event								-			

AIRCRAFT MAINTENANCE COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment * / SEH+	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl
A2.8.3.2.4	Defer maintenance event							-			
A2.8.3.2.5	Schedule maintenance event							-			
A2.8.3.2.6	Close maintenance event							-			
A2.8.3.2.7	Use IMDS							-			
A2.8.3.3.	G0-81										
A2.8.3.3.1	Purpose							-			
A2.8.3.3.2	Access JDD							-			
A2.8.3.3.3	Create maintenance event							-			
A2.8.3.3.4	Defer maintenance event							-			
A2.8.3.3.5	Schedule maintenance event							-			
A2.8.3.3.6	Close maintenance event							-			
A2.8.3.3.7	Use G0-81							-			
A2.8.4	Historical records							-			
A2.8.5	Configuration management							-			
A2.9.	MAINTENANCE MATERIALS/TOOLS										
	TR: AFI 21-101; TOs 1-1A-8, 1-1A-14, 1-1-691 and TO 32 series as applicable										
A2.9.1	Tool control							A			
A2.9.2	Select and use special tools							-			
A2.9.3	Process Test, Measurement, and Diagnostic Equipment (TMDE)							-			
A2.9.4.	Hardware										
A2.9.4.1	Purpose							A			
A2.9.4.2	Remove/inspect/install							2b			
A2.9.5.	Electrical connectors										
A2.9.5.1	Purpose							A			
A2.9.5.2	Connect/disconnect							2b			
A2.9.6.	Securing devices										
A2.9.6.1	Purpose							A			
A2.9.6.2	Install/remove safety wire							2b			
A2.9.6.3	Install/remove cotter pins							2b			
A2.9.6.4	Safety cable							A			
A2.9.7	Lubricants							A			
A2.9.8	Sealants							A			
A2.9.9	Adhesives							A			
A2.9.10	Cleaning agents							A			
A2.9.11.	Hand tools										
A2.9.11.1	Purpose							A			
A2.9.11.2	Select, inspect and use							2b			

AIRCRAFT MAINTENANCE COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment * / SEH+	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A2.9.12.	Measuring tools											
A2.9.12.1	Purpose (to include Prevailing Torque)							A				
A2.9.12.2	Select and use ruler							2b				
A2.9.12.3	Select and use thickness gauge							2b				
A2.9.12.4	Use multi-meter							-				
A2.9.12.5	Select, inspect and use torque wrench (to include Prevailing Torque)							1b				
A2.9.12.6	Select and use micrometer							-				
A2.9.12.7	Use depth gauge							2b				
A2.10.	RESPONSIBILITY FOR SUPPLY											
	TR: AFI 21-101; AFMAN 23-122; TOs 00-20-3 and 00-35D-54											
A2.10.1	Maintenance supply concept							A				
A2.10.2	Standard Base Supply System (SBSS)							-				
A2.10.3	Special requisition (GPC, local purchase)							-				
A2.10.4	Ordering parts							A				
A2.10.5	Priority system							A				
A2.10.6	Prepare repairable and serviceable parts for turn-in							-				
A2.10.7	Repair cycle assets							-				
A2.10.8	Due-in From Maintenance (DIFM) Control							A				
A2.10.9	Local manufacture of parts							-				
A2.10.10	Equipment account management							-				
A2.10.11	Deficiency reporting							-				
A2.10.12	Warranty programs							-				
A2.10.13	DD Forms 1574, 1575, 1576, 1577 and 1577-2 Condition Tags)							A				
A2.10.14	Classified asset handling							-				
A2.11.	AIRCRAFT GENERAL											
	TR: AFMAN 11-218; TOs 00-20-1, 00-25-172, 1-1-691, 1-1B-50 and applicable aircraft TOs											
A2.11.1	Weight and balance							A				
A2.11.2	Determine weight and balance requirements							-				
A2.11.3	Inventory aircraft equipment							-				
A2.11.4	Safe aircraft for maintenance							A				
A2.11.5.	Corrosion control program											
A2.11.5.1	Aircraft cleaning							A				
A2.11.5.2	Corrosion identification							A				
A2.11.5.3	Corrosion treatment							A				

AIRCRAFT MAINTENANCE COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment * / SEH+	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A2.11.5.4	Aircraft lubrication								A			
A2.11.6.	Aircraft inspections											
A2.11.6.1	Concepts and types								A			
A2.11.6.2	Non-Destructive Inspections (NDI)								A			
A2.11.6.3	Borescope								A			
A2.11.7.	Fundamentals of ground handling											
A2.11.7.1	Jacking								A			
A2.11.7.2	Towing								A			
A2.11.7.3	Mooring								A			
A2.11.8	Aircraft marshalling signals	5							2b			
A2.11.9	Crash Damaged, or Disabled Aircraft Recovery (CDDAR)								A			
A2.11.10	Perform inclement/cold weather procedures TR: TO 42C-1-2S-2								-			
A2.11.11	De-ice aircraft: TR: TO 42C-1-2S-2, 14CFR121.629 section 121.629								-			
A2.11.12	Debrief aircrews								-			
A2.11.13.	Aircraft guarded switches											
A2.11.13.1	Design/function/proper identification								A			
A2.11.13.2	Remove and replace covers								-			
A2.11.13.3	Operational check								-			
A2.11.14	Aircraft Battle Damage Repair (ABDR) TR: 1-1H-39								-			
A2.12.	AIRFRAME TR: Applicable aircraft TOs											
A2.12.1	Structure								A			
A2.12.2	Remove/inspect/install panels								1b			
A2.12.3	Inspect structural components								-			
A2.13.	LANDING GEAR (except HH-60) TR: Applicable aircraft TOs											
A2.13.1	System fundamentals								A			
A2.13.2.	Service											
A2.13.2.1	Shock strut								1b			
A2.13.2.2	Tire								1b			
A2.13.3.	Remove/install											
A2.13.3.1	Wheel and tire assembly								1b			
A2.13.3.2	Brake assembly								1b			
A2.13.4	Brake bleeding								A			
A2.14.	UTILITIES (except HH-60) TR: Applicable aircraft TOs											
A2.14.1.	System fundamentals											

AIRCRAFT MAINTENANCE COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment * / SEH+	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A2.14.1.1	Oxygen								A			
A2.14.1.2	Bleed air								A			
A2.14.1.3	Pressurization								A			
A2.14.1.4	Air conditioning								A			
A2.14.1.5	Fire/overheat warning								A			
A2.14.1.6	Fire suppression								A			
A2.15.	FLIGHT CONTROLS											
	TR: Applicable aircraft TOs											
A2.15.1	Fundamentals of flight								A			
A2.15.2	Primary flight control fundamentals (except HH-60)								A			
A2.15.3	Secondary flight control fundamentals (except HH-60)								A			
A2.15.4	Component identification								A			
A2.15.5	Operate flight controls (except HH-60)								1a			
A2.16.	HYDRAULICS											
	TR: TO 1-1A-8 and applicable aircraft TOs											
A2.16.1	System fundamentals								A			
A2.16.1.1	Hydraulic schematics / diagrams								A			
A2.16.2.	Remove/install components											
A2.16.2.1	Tubing/hoses								-			
A2.16.2.2	Fittings								-			
A2.16.2.3	Filter elements								-			
A2.17.	ENGINES											
	TR: Applicable aircraft TOs											
A2.17.1	System fundamentals								A			
A2.17.2	Component identification								A			
A2.17.3	Oil system servicing								A			
A2.17.4	Joint oil analysis program								-			
A2.18.	FUELS											
	TR: AMAN 91-203; TOs 00-25-172, 1-1-3 and applicable aircraft TOs, Applicable AFOSH standards											
A2.18.1	System fundamentals								A			
A2.18.2	Classify fuel leaks								A			
A2.19.	ELECTRICAL											
	TR: Applicable aircraft TOs											
A2.19.1	AC electrical system fundamentals								A			
A2.19.2	DC electrical system fundamentals								A			
A2.19.3	Wire repair								-			
A2.19.4	Fiber optics								-			
A2.19.5	Electrical bonding								-			

AIRCRAFT MAINTENANCE COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment * / SEH+	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A2.19.6	Databus								-			
A2.19.7	Electrical schematics / diagrams								A			
A2.20.	SUPPORT EQUIPMENT TR: AFMAN 91-203; TO 35A3 series as applicable, equipment TOs											
A2.20.1.	Maintenance stands											
A2.20.1.1	Purpose and description								A			
A2.20.1.2	Perform pre-use inspection and operate								2b			
A2.20.2.	Self-propelled universal platforms											
A2.20.2.1	Purpose and description								-			
A2.20.2.2	Perform pre-use inspection and operate								-			
A2.20.3.	Aircraft jacks TR: TO 35A2 series as applicable											
A2.20.3.1	Purpose and description								A			
A2.20.3.2	Perform pre-use inspection and operate								2b			
A2.20.4.	Jacking manifold TR: TO 35A2 series as applicable											
A2.20.4.1	Purpose and description								-			
A2.20.4.2	Perform pre-use inspection and operate								-			
A2.20.5.	Oxygen servicing equipment TR: TO 15X-1-1and 37C2-8 series as applicable											
A2.20.5.1.	Liquid oxygen (LOX)											
A2.20.5.1.1	Purpose and description								A			
A2.20.5.1.2	Perform pre-use inspection and operate								-			
A2.20.5.2.	Gaseous oxygen (GOX) (except HH- 60)											
A2.20.5.2.1	Purpose and description								A			
A2.20.5.2.2	Perform pre-use inspection and operate								-			
A2.20.6.	Diesel air compressors TR: TO 34Y1 series as applicable											
A2.20.6.1	Purpose and description								A			
A2.20.6.2	Perform pre-use inspection and operate								-			
A2.20.7.	Ground heaters TR: TO 35E7 series as applicable											
A2.20.7.1	Purpose and description								A			
A2.20.7.2	Perform pre-use inspection and operate								-			
A2.20.8.	Lighting equipment TR: TO 35F5 series as applicable											
A2.20.8.1	Purpose and description								A			
A2.20.8.2	Perform pre-use inspection and operate								2b			
A2.20.9.	Hydraulic test stand											

AIRCRAFT MAINTENANCE COMMON TRAINING REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment * / SEH+	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl
TR: TO 33A2 series as applicable											
A2.20.9.1 Purpose and description								A			
A2.20.10. Air conditioning units TR: TO 35E9 Series as applicable											
A2.20.10.1 Purpose and description								A			
A2.20.11.. Ground generator sets/gas turbine compressors											
A2.20.11.1. A/M32A-60 gas turbine generator set/gas turbine compressor TR: TO 35C2 series as applicable (except HH-60)											
A2.20.11.1.1 Purpose and description								A			
A2.20.11.1.2 Perform pre-use inspection and operate								2b			
A2.20.11.2. A/M32A-95 gas turbine compressor (except HH-60) TR: TO 35D12series as applicable											
A2.20.11.2.1 Purpose and description								A			
A2.20.11.3. Diesel driven generator sets TR: TO 35C2 series as applicable											
A2.20.11.3.1 Purpose and description								A			
A2.20.11.3.2 Perform pre-use inspection and operate (except HH-60)								2b			
A2.20.12. Tow bar TR: Applicable aircraft TOs											
A2.20.12.1 Purpose and description								A			
A2.20.12.2 Connect/disconnect								-			
A2.20.13. Tow vehicles TR: TO 36A10 series as applicable											
A2.20.13.1 Purpose and description								A			
A2.20.13.2 Perform pre-use inspection and operate								-			
A2.20.14. Self-generating nitrogen equipment TR: TO 35D29-7-6-1											
A2.20.14.1 Purpose and description								A			
A2.20.14.2 Perform pre-use inspection and operate								2b			
A2.20.15. Gaseous nitrogen servicing equipment TR: TO 35D3 series as applicable											
A2.20.15.1 Purpose and description								A			
A2.20.15.2 Perform pre-use inspection and operate								-			
A2.20.16. Engine stands and dollies TR: TO 35D3 series as applicable											
A2.20.16.1 Purpose and description								A			
A2.20.16.2 Perform pre-use inspection and operate								-			

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MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

NOTE 1: Use this attachment in conjunction with STS 2A3X8 attachment 2.
 NOTE 2: All task/knowledge items taught in the initial skills course are trained during war time.
 NOTE 3: Items in column 2 identified with an 5R or 7R are optional for the AFRC Traditional Reservist (TR) and the ANG Drill Status Guardsman (DSG); for full-time members, Core Tasks are required.

A3.1. AIRCRAFT GENERAL TR: TO 1Q-9(M)A-2, System 05												
A3.1.1 Safe aircraft for maintenance	5							2b				
A3.1.2 Perform maintenance set up procedures power up/down												
A3.1.2.1 Ground Control Station (GCS) TR: 1Q-1(M)B-2-2								-				
A3.1.3. Fueling and defueling TR: TO 1Q-9(M)A-2, System 12												
A3.1.3.1. Perform single point												
A3.1.3.1.1 Fueling member duties	5							a				
A3.1.3.1.2 Fueling supervisor duties	7							-				
A3.1.3.1.3 Defuel member duties	5							a				
A3.1.3.1.4 Defuel supervisor duties	7							-				
A3.1.3.2. Perform manual												
A3.1.3.2.1 Manual fueling	5							a				
A3.1.3.2.2 Manual defueling	5							a				
A3.1.4. Theory of operation/system description TR: TO 1Q-9(M)A-1												
A3.1.4.1 System general								A				
A3.1.4.2 Aircraft general								A				
A3.1.4.3 Datalink								A				
A3.1.4.4 Aircraft digital control system								A				
A3.1.4.5 VHF/UHF Radios								-				
A3.1.4.6 Aircraft video data system								A				
A3.1.4.7 Ice detector								-				
A3.1.4.8 IFF transponder system								-				
A3.1.4.9 Navigation system								-				
A3.1.4.10 Autopilot system TR: TO 1Q-9(M)A-2 System 22								-				
A3.1.4.11 Attitude, air data and navigation system TR: TO 1Q-9(M)A-2 System 34								-				
A3.1.5. Ground handling and servicing												
A3.1.5.1 Perform aircraft electrical power application and removal								2b				
A3.1.5.2 Perform snow/ice removal								a				
A3.1.5.3 Remove and install hot weather cooling kit								a				

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl
A3.1.5.4. Jack and level aircraft TR: TO 1Q-9(M)A-2, System 07											
A3.1.5.4.1 Jacking concepts								A			
A3.1.5.4.2 Perform jacking team member duties								2b			
A3.1.5.4.3 Perform jacking team supervisor duties	7							-			
A3.1.5.4.4 Perform axle jacking	5							2b			
A3.1.5.5 Perform aircraft wash								a			
A3.1.5.6 Check engine oil level	5							2b			
A3.1.5.7 Perform engine oil drain procedures								-			
A3.1.5.8 Service engine oil	5							-			
A3.1.5.9 Take oil sample								-			
A3.1.5.10 Service tires	5							2b			
A3.1.5.11. Manual movement TR: TO 1Q-9(M)A-2, System 09											
A3.1.5.11.1 Manual movement operation								A			
A3.1.5.11.2 Perform manual movement aircraft with Go-jacks/dollies								b			
A3.1.5.11.3 Move aircraft manually (tow bar)								b			
A3.1.5.12 Tow aircraft TR: TO 1Q-9(M)A-2, System 09											
A3.1.5.12.1 Perform tow team member duties	5							b			
A3.1.5.12.2 Perform tow team supervisor duties	7							-			
A3.1.5.12.3 Tow vehicle operator								-			
A3.1.5.13. Perform aircraft hoisting and lowering TR: TO 1Q-9(M)A-2, System 07											
A3.1.5.13.1 Hoisting team member	5							-			
A3.1.5.13.2 Hoisting team supervisor	7							-			
A3.1.5.14 Perform center of gravity procedures								-			
A3.1.5.15 Perform as Crash Damaged or Disabled Aircraft Recovery (CDDAR) team member								-			
A3.1.5.16 Perform as CDDAR team chief								-			
A3.1.6. Aircraft inspections TR: TOs 1Q-9(M)A-6WC-1											
A3.1.6.1. Perform inspections TR: TO 1Q-9(M)A-2, System 13											
A3.1.6.1.1 Preflight	5							-			
A3.1.6.1.2 Thruflight	5							-			
A3.1.6.1.3 Basic postflight	5							-			
A3.1.6.1.4 Combined basic postflight/preflight	5							1b			
A3.1.6.1.5 Intake/exhaust								-			

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl
A3.1.6.2. Aircraft periodic inspections and maintenance requirements TR: TO 1Q-9(M)A-6WC-2											
A3.1.6.2.1 Periodic inspection concept								A			
A3.1.6.2.2. Hourly inspections TR: TO 1Q-9(M)A-2, System 13											
A3.1.6.2.2.1 Perform hourly engine inspections (200, 400, 3000 hours)								-			
A3.1.6.2.2.2 Perform hourly airframe inspections (200, 400, 2000 hours)								-			
A3.1.6.2.2.3 3000 hour oil line replacement								-			
A3.1.6.2.2.4 400 hour propeller inspection								-			
A3.1.6.2.2.5 Perform special inspections								-			
A3.1.6.2.3 Perform engine FOD scope inspection								-			
A3.1.7. Perform launch and recovery TR: TO 1Q-9(M)A-2, System 05											
A3.1.7.1 Aircraft launch	5							b			
A3.1.7.2 Aircraft power-up and initial link	5							b			
A3.1.7.3 Engine start (hobart operator)	5							b			
A3.1.8. MQ-9 pack up/set-up procedures TR: TO 1Q-9(M)A-2, System 10											
A3.1.8.1 Pack up and unpack procedures								A			
A3.1.8.2 Perform pack up	7							-			
A3.1.8.3 Perform unpack and set-up	7							-			
A3.1.9. MQ-9 technical orders TR: TO 00-5-1											
A3.1.9.1 Use technical orders	5							2b			
A3.1.10. Aircraft and supporting maintenance records TR: TO 00-20-1											
A3.1.10.1 Document AFTO Form 781H	5							2b			
A3.1.10.2 Document AFTO Form 781A	5							2b			
A3.1.10.3 Document AFTO Form 781J	5							2b			
A3.1.10.4 Document AFTO Form 781F	5							2b			
A3.1.10.5 Document AFTO Form 781K	5							2b			
A3.1.10.6 Document oil analysis program paperwork (Honeywell / DD Form 2026)								1b			
A3.2. AIRFRAME TR: TO 1Q-9(M)A-2, System 53											
A3.2.1 Perform aircraft panel inspection	5							2b			
A3.2.2. Remove/install											
A3.2.2.1 Aircraft panels and fairings	5							b			
A3.2.2.3 Engine cowls	5							2b			

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment 5 / SEL +	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A3.2.2.4	Right/left intake runner	5							b			
A3.2.2.5	Air intake plenum assembly								-			
A3.2.2.6	Wing tip assembly								-			
A3.2.2.7	Stud bolt and grommet	5							-			
A3.2.2.8	Bonded receptacle nut plate assembly								-			
A3.2.3.	Vertical tail assembly TR: TO 1Q-9(M)A-2, System 55											
A3.2.3.1	Remove/install vertical tail assembly	5							2b			
A3.2.3.2	Remove/install wheel assembly (vert tail)								-			
A3.2.4.	Diagonal tail assemblies TR: TO 1Q-9(M)A-2, System 55											
A3.2.4.1	Remove/install left / right diagonal tail assemblies	5							2b			
A3.2.5.	Wing assemblies TR: TO 1Q-9(M)A-2, System 57											
A3.2.5.1	Remove/install left / right wing assemblies	5							-			
A3.3.	LANDING GEAR SYSTEM TR: TO 1Q-9(M)A-2, System 32											
A3.3.1	Components and theory of operation								A			
A3.3.2.	Main landing gear											
A3.3.2.1	Operate landing gear test box	5							-			
A3.3.2.2	Perform landing gear operational check	5							-			
A3.3.2.3.	Remove/install											
A3.3.2.3.1	Main Landing Gear (MLG)								-			
A3.3.2.3.2	MLG driver								-			
A3.3.2.3.3	MLG drag link								-			
A3.3.2.3.4	MLG wheel/tire	5							2b			
A3.3.2.3.5	MLG wheel axle								-			
A3.3.2.3.6	Wheel speed sensor								-			
A3.3.2.3.7	Wheel speed sensor processor module								-			
A3.3.2.3.8	Weight on Wheels (WOW) switch								-			
A3.3.2.3.9	Landing gear shock absorber (shock strut)								-			
A3.3.3.	Retract actuator assembly, main											
A3.3.3.1	Remove/install main retract actuator assembly								-			
A3.3.3.2	Perform toe-in and camber rigging procedure	7							-			
A3.3.3.3	Perform teeter inspection	7							-			
A3.3.3.4	Perform teeter rigging	7							-			
A3.3.4.	Nose Landing Gear (NLG) remove/install											

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A3.3.4.1	NLG								-			
A3.3.4.2	NLG driver								-			
A3.3.4.3	Nose wheel/tire	5							2b			
A3.3.4.4	Retract actuator assembly, nose								-			
A3.3.5.	Steering servo assembly, nose											
A3.3.5.1	Perform steering servo adjustment	7							-			
A3.3.5.2	Perform steering servo operational check	5							-			
A3.3.5.3	Remove/install steering servo assembly, nose	5							-			
A3.3.5.4	Remove/install steering driver								-			
A3.3.6.	Brake system											
A3.3.6.1	Remove/install											
A3.3.6.1.1	Master cylinder assembly								-			
A3.3.6.1.2	Brake caliper	5							2b			
A3.3.6.1.3	Brake line hose								-			
A3.3.6.1.4	Brake servo								-			
A3.3.6.2	Perform brake bleed	5							2b			
A3.3.6.3	Perform brake system operational check	5							2b			
A3.4.	AIRCRAFT LIGHTING SYSTEM											
	TR: TO 1Q-9(M)A-2, System 33											
A3.4.1	Components and theory of operation								A			
A3.4.2	Perform navigation lighting test								-			
A3.4.3	Perform strobe light test								-			
A3.4.4	Perform infrared beacon operational check								-			
A3.4.5.	Remove/install											
A3.4.5.1	Infrared beacon								-			
A3.4.5.2	Wing tip forward lens								-			
A3.4.5.3	Strobe light								-			
A3.4.5.4	Strobe light lens								-			
A3.4.5.5	Navigation light lens								-			
A3.4.5.6	Navigation light bulb								-			
A3.5.	FLIGHT CONTROL SYSTEM											
	TR: TO 1Q-9(M)A-2, System 27											
A3.5.1	Components and theory of operation								A			
A3.5.2	Perform pitot heaters/static port test								-			
	TR: TO 1Q-9(M)A-2 System 34											
A3.5.3.	Aileron servo											
A3.5.3.1	Remove/install aileron servo	5							-			

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A3.5.3.2	Rig aileron servo	7							-			
A3.5.3.3	Perform aileron servo operational check	5							2b			
A3.5.4.	Diagonal tail servo											
A3.5.4.1	Remove/install diagonal tail servo	5							-			
A3.5.4.2	Rig diagonal tail servo	7							-			
A3.5.4.3	Perform diagonal tail servo operational check	5							2b			
A3.5.5.	Flap servos TR: TO 1Q-9(M)A-2, System 27											
A3.5.5.1	Remove/install flap servos	5							-			
A3.5.5.2	Rig flap servos	7							-			
A3.5.5.3	Perform flap servo operational check	5							2b			
A3.5.6.	Vertical tail servo											
A3.5.6.1	Remove/install vertical tail servo	5							-			
A3.5.6.2	Rig vertical tail servo	7							-			
A3.5.6.3	Perform vertical tail servo operational check	5							2b			
A3.6.	OIL SYSTEM TR: TO 1Q-9(M)A-2, System 79											
A3.6.1	Components and theory of operation								A			
A3.6.2.	Remove/install											
A3.6.2.1	Oil lines								-			
A3.6.2.2	Oil filter, engine, gearbox								2b			
A3.6.2.3	Oil temp sensor								-			
A3.6.2.4	Oil cooler assembly								-			
A3.6.2.5	Oil tank assembly								-			
A3.6.2.6	Oil tank level sensor								-			
A3.6.2.7	Oil filter bypass valve								-			
A3.6.2.8	Oil pressure regulator valve assembly								-			
A3.6.2.9	Oil vent valve solenoid								-			
A3.6.2.10	Improved Oil System Fuel Oil Heat Exchanger (FOHE)								-			
A3.6.3	Perform engine chip detector inspection	5							2b			
A3.6.4	Perform leak check on FOHE								-			
A3.7.	ENGINE SYSTEM TR: TO 1Q-9(M)A-2, System 72											
A3.7.1	Components and theory of operation								A			
A3.7.2	Perform engine fuel/oil leak check procedure								-			
A3.7.3	Perform 800 hour engine oil change TR: TO 1Q-9(M)A-2 System 13								-			

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A3.7.4	Perform engine fuel pump test								-			
A3.7.5	Perform Exhaust Gas Temperature (EGT) functional test	5							-			
A3.7.6	Perform EGT compensating resistor adjustment								-			
A3.7.7.	Remove/install TR: TO 1Q-9(M)A-2, System 71											
A3.7.7.1	Engine assembly								-			
A3.7.7.2	Engine mount								-			
A3.7.7.3	Engine fuel pump								-			
A3.7.7.4	Engine fuel pump filter	5							2b			
A3.7.7.5	Engine fuel pump control unit								-			
A3.7.7.6	Engine/fuel heat exchanger								-			
A3.7.7.7	Anti-ice shield assembly								-			
A3.7.7.8	P2T2 sensor								-			
A3.7.7.9	TT2 sensor								-			
A3.7.7.10	Digital Electronic Engine Control (DEEC)								-			
A3.7.7.11	Torque signal conditioner								-			
A3.7.7.12	Anti-Ice shutoff valve assembly								-			
A3.7.7.13	Fuel flow divider valve assembly								-			
A3.7.7.14	Fuel heater valve solenoid								-			
A3.7.7.15	Purge system filter (accumulator)								-			
A3.7.7.16	Purge system valve solenoid								-			
A3.7.7.17	Engine fuel nozzle manifold	5							-			
A3.7.7.18	Engine fuel nozzle assembly	5							-			
A3.7.7.19	Pneumatic accumulator								-			
A3.7.7.20	EGT cable								-			
A3.7.7.21	EGT compensating resistor								-			
A3.7.7.22	Aft isolator assembly								-			
A3.7.7.23	Primary-only solenoid valve								-			
A3.7.7.24	Gearbox vent filter								-			
A3.7.7.25	Unfeather pump assembly								-			
A3.7.7.26	Feather valve assembly								-			
A3.7.7.27	Engine fuel/oil heat exchanger								-			
A3.7.7.28	Chip detector valve								-			
A3.7.7.29	Engine tail cone								-			
A3.7.7.30	Engine nose cone								-			
A3.7.7.31	Engine nose cone magnetic plug								-			

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment 5 / SEL +	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A3.7.7.32	Ignition unit								-			
A3.7.7.33	Starter pad adapter spline	5							-			
A3.7.7.34	Ignition plug	5							-			
A3.7.7.35	Tach generator								-			
A3.7.7.36	Pressure ratio transducer								-			
A3.7.7.37	Fuel filter (engine) (control P3 Line In)	5							2b			
A3.7.8.	Perform follow on maintenance TR: TO 1Q-9(M)A-2, System 05											
A3.7.8.1	Engine run								-			
A3.7.8.2	Engine shutdown								-			
A3.7.8.3	Emergency shutdown test procedure								-			
A3.7.8.4	Engine operational check (DEEC)								-			
A3.7.8.5	Engine run restraint removal and installation								-			
A3.7.8.6	Emergency shutdown								-			
A3.7.8.7	Engine fire/RPM decay								-			
A3.7.9.	Exhaust TR: TO 1Q-9(M)A-2, System 78											
A3.7.9.1	Remove/install											
A3.7.9.1.1	Primary exhaust								-			
A3.7.9.1.2	Secondary exhaust	5							-			
A3.7.9.1.3	Secondary exhaust stand-off bracket	5							-			
A3.7.9.2	Perform primary exhaust inspection								-			
A3.7.10.	Power servo TR: TO 1Q-9(M)A-2, System 76											
A3.7.10.1	Remove/install power servo								-			
A3.7.10.2	Remove/install power servo control cable								-			
A3.7.10.3	Perform power servo operational check								-			
A3.7.10.4	Perform power servo control cable adjustment								-			
A3.7.11.	Stop and feather servo TR: TO 1Q-9(M)A-2, System 76											
A3.7.11.1	Remove/install stop and feather servo								-			
A3.7.11.2	Remove/install stop and feather servo control cable								-			
A3.7.11.3	Perform stop and feather servo operational check								-			
A3.7.11.4	Perform stop and feather servo cable adjustment								-			
A3.8.	FUEL SYSTEM TR: TO 1Q-9(M)A-2, System 28											
A3.8.1	Components and theory of operation								A			
A3.8.2.	Perform											

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A3.8.2.1	Fuselage fuel pump test	5							-			
A3.8.2.2	Fuel system leak check procedure	5							-			
A3.8.2.3	Fuel level sensor operational check								-			
A3.8.2.4	Fuel heater test								-			
A3.8.2.5	Fuel float switch operational check								-			
A3.8.2.6	Valve, motor operated dump operational check								-			
A3.8.3.	Remove/install											
A3.8.3.1	Vent valve header tank								-			
A3.8.3.2	Fuel filter assembly (airframe)								-			
A3.8.3.3	Fuel filter element	5							2b			
A3.8.3.4	Fuel pump assembly								-			
A3.8.3.5	Fuel flow meter								-			
A3.8.3.6	Valve poppet single point fueling								-			
A3.8.3.7	Tube assembly forward bladder vent								-			
A3.8.3.8	Tube assembly forward bladder jet pump								-			
A3.8.3.9	Tube assembly aft bladder vent								-			
A3.8.3.10	Tube assembly aft bladder jet pump								-			
A3.8.3.11	Receptacle assembly single point fuel								-			
A3.8.3.12	Fuel heater driver aft access bay								-			
A3.8.3.13	Fuel heater driver assembly forward								-			
A3.8.3.14	Fuel heater assembly forward spar box								-			
A3.8.3.15	Fuel heater assembly aft accessory bay								-			
A3.8.3.16	Fuel cap assembly header/wing tank								-			
A3.8.3.17	Fuel cap assembly fuselage forward fuel bay								-			
A3.8.3.18	Fuel cap assembly fuselage aft fuel bay								-			
A3.8.3.19	Fuel bladder outboard left/right wing								-			
A3.8.3.20	Fuel bladder inboard left/right wing								-			
A3.8.3.21	Fuel bladder header fuselage								-			
A3.8.3.22	Fuel bladder forward fuselage								-			
A3.8.3.23	Fuel bladder aft fuselage								-			
A3.8.3.24	Adapter single point fueling valve								-			
A3.8.3.25	Vent sump box assembly								-			
A3.8.3.26	Valve relief fuel tank 1 PSID								-			
A3.8.3.27	Valve, motor operated dump								-			
A3.8.3.28	Valve, drain left/right wing								-			

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A3.8.3.29	Valve, drain header fuel bay assembly								-			
A3.8.3.30	Valve, drain aft fuel bay								-			
A3.8.3.31	Valve, check swing -12 AN male left/right wing sump								-			
A3.8.3.32	Valve, check canted seat left/right wing								-			
A3.8.3.33	Valve, ball, tank distribution valve								-			
A3.8.3.34	Solenoid valve assembly jet pump manifold								-			
A3.8.3.35	Solenoid valve assembly fuel return manifold								-			
A3.8.3.36	Pump jet, left/right wing								-			
A3.8.3.37	Pump jet, forward fuel bay								-			
A3.8.3.38	Pump jet, aft fuel bay								-			
A3.8.3.39	Jet pump manifold								-			
A3.8.3.40	Fuel hose assemblies								-			
A3.8.3.41	Fuel sump assembly left/right wing								-			
A3.8.3.42	Fuel return manifold tank distribution								-			
A3.8.3.43	Fuel pump check valve manifold assembly								-			
A3.8.3.44	Flow meter 1000 PPH jet fuel								-			
A3.8.3.45	Drain valve, assembly forward fuel tank lightning safe								-			
A3.8.3.46	Check valve manifold assembly								-			
A3.8.3.47	Bleeder plug								-			
A3.8.3.48	Transducer pressure range 0-15 psi								-			
A3.8.3.49	Transducer pressure range 0-100 psi								-			
A3.8.3.50	Outboard left/right wing fuel level sensor								-			
A3.8.3.51	Inboard left/right wing fuel level sensor								-			
A3.8.3.52	Sensor, fuel level header tank								-			
A3.8.3.53	Sensor, fuel level forward fuel bay								-			
A3.8.3.54	Sensor, fuel level aft								-			
A3.8.3.55	Fuel cable assemblies								-			
A3.8.3.56	Bracket assembly level and float outboard/inboard left/right wing								-			
A3.8.4	Disassemble/reassemble fuel pump assembly								-			
A3.8.5	Extended range external wing tanks											
A3.8.5.1	Components and theory of operation								A			
A3.8.5.2	Remove/install tank								-			
A3.8.5.3	Perform tank leak check								-			

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl
A3.8.6. Alcohol Water Injection (AWI) system TR: TO 1Q-9(M)A-2, System 82											
A3.8.6.1 Components and theory of operation								A			
A3.8.6.2. Remove/install											
A3.8.6.2.1 Tank								-			
A3.8.6.2.2 Pump								-			
A3.8.6.2.3 Plenum spray rake								-			
A3.8.6.2.4 Metering orifice								-			
A3.8.6.2.5 Isolation valve								-			
A3.8.6.2.6 Inline screen								-			
A3.8.6.2.7 Level sensor								-			
A3.8.6.2.8 Temperature compensating resistor								-			
A3.8.6.3. Drain and fill tank								-			
A3.8.6.4. Perform system leak check								-			
A3.8.6.5. Perform system bleed and prime								-			
A3.9. AIRCRAFT ELECTRICAL POWER SYSTEM TR: TO 1Q-9(M)A-2, System 24											
A3.9.1 Components and theory of operation								A			
A3.9.2. Remove/install											
A3.9.2.1 Engine Fuel Interface Unit (EFIU) assembly TR: TO 1Q-9(M)A-2 System 42								-			
A3.9.2.2 Engine start module assembly								-			
A3.9.2.3 Starter generator assembly	7							-			
A3.9.2.4 Generator control unit								-			
A3.9.3 Adjust generator control unit								-			
A3.9.4 Direct Drive Brushless Alternator (DDBA)											
A3.9.4.1 Components and system operation								A			
A3.9.4.2 Remove/install DDBA	7							-			
A3.9.4.3 Perform DDBA operational check								-			
A3.9.5. Electrical power system (battery) TR: TO 1Q-9(M)A-2, System 24											
A3.9.5.1 Remove/install battery unit assembly								-			
A3.9.5.2 Remove/install inverter tray TR: TO 1Q-9(M)A-2 System 53								-			
A3.9.5.3 Perform battery charging on aircraft								-			
A3.9.5.4 Perform battery discharging on aircraft								-			
A3.9.5.5 Perform battery charging off aircraft								-			
A3.9.5.6 Perform battery power test								-			
A3.10. PROPELLER ASSEMBLY											

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
TR: TO 1Q-9(M)A-2, System 61												
A3.10.1 Components and theory of operation								A				
A3.10.2 Perform												
A3.10.2.1 Propeller assembly adjustment	7							-				
A3.10.2.2 Propeller assembly inspection	5							-				
A3.10.2.3 Propeller balancing	7							-				
A3.10.2.4 Negative Torque Sensing (NTS) valve adjustment								-				
A3.10.2.5 Torque load assembly adjustment								-				
A3.10.2.6 NTS trip system check	7							-				
A3.10.2.7 NTS prop system check								-				
A3.10.2.8 NTS ground system check								-				
A3.10.2.9 Propeller governor back up mode adjustment								-				
A3.10.2.10 Propeller unfeathering procedure	5							-				
A3.10.2.11 Propeller feathering procedure								-				
A3.10.2.12 Beta switch operational check								-				
A3.10.3. Remove/install												
A3.10.3.1 Propeller assembly	5							-				
A3.10.3.2 NTS valve housing								-				
A3.10.3.3 NTS orifice assembly								-				
A3.10.3.4 Torque ring support assembly								-				
A3.10.3.5 Torque load assembly								-				
A3.10.3.6 Beta block check valve								-				
A3.10.3.7 Beta block housing								-				
A3.10.3.8 Beta switch housing								-				
A3.10.3.9 Propeller governor								-				
A3.10.3.10 Propeller pitch control								-				
A3.10.3.11 Switch-pressure (beta)								-				
A3.10.4. Spinner cone assembly												
A3.10.4.1 Remove/install spinner cone assembly	5							2b				
A3.10.4.2 Perform spinner cone inspection	5							-				
A3.10.5. Beta tube												
A3.10.5.1 Remove/install beta tube	5							-				
A3.10.5.2 Perform beta tube adjustment	7							-				
A3.10.5.3 Perform beta tube inspection	5							-				
A3.11. MQ-9 BLOCK 5												
A3.11.1 Electrical power theory and operation								A				

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A3.11.2	AC power generation								-			
A3.11.3	DC power generation								-			
A3.11.4	External power generation								-			
A3.11.5.	Remove/install											
A3.11.5.1	Starter generator	7							-			
A3.11.5.2	Permanent magnetic alternator	7							-			
A3.11.6.	Engine oil											
A3.11.6.1	Components and theory of operation								A			
A3.11.6.2	Remove/install											
A3.11.6.2.1	Starter generator oil pump	7							-			
A3.11.6.2.2	Oil scavenger oil plumbing								-			
A3.11.6.2.3	Starter generator oil pump filter element	5							-			
A3.11.6.2.4	Fuel/oil heat exchanger								-			
A3.12.	SUPPORT EQUIPMENT											
	TR: Applicable Technical Data											
A3.12.1	Captive fastener / swage removal and installation tool								b			
A3.12.2.	Air Data test set											
A3.12.2.1	Purpose and description								A			
A3.12.2.2	Perform pre-use inspection and operate								-			
A3.12.3.	Battery charger											
A3.12.3.1	Purpose and description								-			
A3.12.3.2	Perform pre-use inspection and operate								-			
A3.12.4.	Ruggedized Aircraft Maintenance Test Station (RAMTS)											
A3.12.4.1	Purpose and description								A			
A3.12.4.2	Perform pre-use inspection and operate	5							2b			
A3.12.5.	Portable floor crane											
A3.12.5.1	Purpose and description								A			
A3.12.5.2	Perform pre-use inspection and operate								2b			
A3.12.6.	Sorenson power supply											
A3.12.6.1	Purpose and description								A			
A3.12.6.2	Perform pre-use inspection and operate	5							2b			
A3.12.7.	Hobart/Jet X start cart											
A3.12.7.1	Purpose and description								A			
A3.12.7.2	Perform pre-use inspection and operate	5							-			
A3.12.8.	Wing lift jack											

MQ-9 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course				
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D	
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl	
A3.12.8.1	Purpose and description								A			
A3.12.8.2	Perform pre-use inspection and operate	5							-			
A3.12.9.	Aircraft stands and cradles											
A3.12.9.1	Purpose and description								A			
A3.12.9.2	Perform pre-use inspection and operate								-			
A3.12.10.	2-Ton fuselage jacks											
A3.12.10.1	Purpose and description								A			
A3.12.10.2	Perform pre-use inspection and operate	5							2b			
A3.12.11.	Spreader bar											
A3.12.11.1	Purpose and description								A			
A3.12.11.2	Perform pre-use inspection and operate								-			
A3.12.12.	MQ-9 tow bar											
A3.12.12.1	Purpose and description								-			
A3.12.12.2	Perform pre-use inspection and operate								-			
A3.12.13.	Go-jack/dollies											
A3.12.13.1	Purpose and description								A			
A3.12.13.2	Perform pre-use inspection and operate								-			
A3.12.14.	AWI fill cart assembly serving cart											
A3.12.14.1	Purpose and description								-			
A3.12.14.2	Perform pre-use inspection and operate								-			
A3.12.15.	MA-3D cooling cart TR: TO 35E9-11-71-WA-1											
A3.12.15.1	Purpose and description								-			
A3.12.15.2	Perform pre-use inspection and operate								-			
A3.12.16.	Trailing arm landing gear installation jack											
A3.12.16.1	Purpose and description								-			
A3.12.16.2	Perform pre-use inspection and operate								-			
A3.12.17.	Hobart 809											
A3.12.17.1	Purpose and description								A			
A3.12.17.2	Perform pre-use inspection and operate								-			

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RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SET +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

NOTE 1: Use this attachment in conjunction with STS 2A3X8 attachment 2.

NOTE 2: All task/knowledge items taught in the initial skills course are trained during war time.

NOTE 3: Items in column 2 identified with an 5R or 7R are optional for the AFRC Traditional Reservist (TR) and the ANG Drill Status Guardsman (DSG); for full-time members, Core Tasks are required.

A4.1.	AIRCRAFT GENERAL TR: TOs RQ4-B-00, RQ4-B-05, RQ4-B-07, RQ4-B-08, RQ4-B-09, RQ4-B-10, RQ4-B-12, RQ4-B-28, and RQ4-B-45 Series												
A4.1.1	Integrated system							-					
A4.1.2	Radio Frequency (RF) safety hazards	5						-					
A4.1.3	Perform aircraft safe for maintenance	5						-					
A4.1.4.	Corrosion control program							-					
A4.1.4.1	Prepare aircraft for wash	5						-					
A4.1.4.2	Wash aircraft	5						-					
A4.1.4.3	Inspect for corrosion	5						-					
A4.1.4.4	Lubricate aircraft	5						-					
A4.1.5.	Vehicle Test Controller (VTC)							-					
A4.1.5.1	Purpose and description							-					
A4.1.5.2	Apply/remove power to VTC	5						-					
A4.1.5.3	Load mission plan							-					
A4.1.5.4	Download and save fault logs							-					
A4.1.6	External power							-					
A4.1.6.1	Connect/apply/disconnect external power in internal launch	7						-					
A4.1.6.2	Connect/apply/disconnect external power in external test	5						-					
A4.1.6.3	Connect prelaunch ground bleed air cart							-					
A4.1.7.	Perform ground handling TR: TOs RQ4-B-00, RQ4-B-05, RQ4-B-07, RQ4-B-08, RQ4-B-09, RQ4-B-10 and RQ4-B-45 Series												
A4.1.7.1.	Launch							-					
A4.1.7.1.1	Launch team member duties	5						-					
A4.1.7.1.2	Launch team leader duties							-					
A4.1.7.2.	Recover							-					
A4.1.7.2.1	Recovery team member duties	5						-					
A4.1.7.2.2	Recovery team leader duties	7						-					
A4.1.7.2.3	Divert recovery team member duties							-					
A4.1.7.2.4	Divert recovery team supervisor duties							-					
A4.1.7.3.	Tow aircraft							-					

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

A4.1.7.3.1	Tow vehicle operator duties								-			
A4.1.7.3.2	Tow team member duties	5							-			
A4.1.7.3.3	Tow team supervisor duties	7							-			
A4.1.7.4.	Jack aircraft								-			
A4.1.7.4.1	Aircraft jacking team member duties	5							-			
A4.1.7.4.2	Main Landing Gear (MLG) jacking team member duties	5							-			
A4.1.7.4.3	Nose Landing Gear (NLG) jacking team member duties	5							-			
A4.1.7.4.4	Jacking team supervisor duties	7							-			
A4.1.7.5.	Mooring								-			
A4.1.7.5.1	Moor aircraft	5							-			
A4.1.7.5.2	Perform severe weather parking and mooring	5							-			
A4.1.7.6.	Weighing								-			
A4.1.7.6.1	Purpose and description								-			
A4.1.7.6.2	Weigh team member duties	5							-			
A4.1.7.6.3	Weigh team supervisor duties	7							-			
A4.1.7.7	Level aircraft	7							-			
A4.1.8.	Aerospace vehicle inspections TR: TOs RQ4-B-05 Series								-			
A4.1.8.1.	Perform inspections								-			
A4.1.8.1.1	Mechanical preflight	5							-			
A4.1.8.1.2	Electrical preflight								-			
A4.1.8.1.3	Thruflight	5							-			
A4.1.8.1.4	Postflight	5							-			
A4.1.8.1.5	Basic postflight/preflight	5							-			
A4.1.8.2.	Perform special inspections								-			
A4.1.8.2.1	Acceptance								-			
A4.1.8.2.2	Engine deck								-			
A4.1.9.	Perform servicing TR: TOs RQ4-B-12 Series								-			
A4.1.9.1	Gravity fueling, refuel	5							-			
A4.1.9.2	Pressurized fueling, refuel	5							-			
A4.1.9.3	Refuel/defuel supervisor	7							-			
A4.1.9.4	VTC operator for refuel/defuel								-			
A4.1.9.5	Fuel quantity (weight) determination	5							-			
A4.1.9.6	Fuel quantity (weight) determination (69 percent fuel load)	5							-			
A4.1.9.7	Pressurized defueling, defuel	5							-			

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SET +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

A4.1.9.8	Gravity defueling, defuel								-			
A4.1.9.9	Fuel density determination, manual test	5							-			
A4.1.9.10	Fuel density determination, automatic test								-			
A4.1.9.11	SATCOM waveguide pressurization system	5							-			
A4.1.9.12	Emergency landing gear pneumatic reservoir	5							-			
A4.1.9.13	Tires	5							-			
A4.1.9.14	MLG strut, hydraulic	5							-			
A4.1.9.15	MLG strut, pneumatic	5							-			
A4.1.9.16	NLG strut, hydraulic	5							-			
A4.1.9.17	NLG strut, pneumatic	5							-			
A4.1.9.18	Hydraulic reservoir	5							-			
A4.1.9.19	Hydraulic reservoir draining								-			
A4.1.9.20	Engine oil	5							-			
A4.1.9.21	Engine oil, change								-			
A4.1.9.22	Air turbine engine starter oil								-			
A4.1.9.23	Air turbine engine starter oil, change								-			
A4.1.9.24	25 KVA AC generator fill and bleed								-			
A4.1.9.25	25 KVA AC generator oil								-			
A4.1.9.26	See and detect camera	5							-			
A4.1.9.27	Liquid cooling system								-			
A4.1.9.28	Obtain fuel sample from truck and / or aircraft								-			
A4.1.10.	RQ-4 technical orders TR: TO 00-5-1								-			
A4.1.10.1	Use technical orders	5							-			
A4.1.10.2	Use Illustrated Parts Breakdown (IPB)								-			
A4.1.11.	Aircraft and supporting maintenance records TR: TO 00-20-1								-			
A4.1.11.1	Purpose and description of 781 Forms								-			
A4.1.11.2	Document AFTO Form 781H	5							-			
A4.1.11.3	Document AFTO Form 781A	5							-			
A4.1.11.4	Document AFTO Form 781F	5							-			
A4.1.11.5	Document AFTO Form 781J	5							-			
A4.1.11.6	Document AFTO Form 781K	5							-			
A4.2.	AIRFRAME TR: TOs RQ4-B-51, RQ4-B-52, RQ4-B-53, RQ4-B-54, RQ4-B-55, and RQ4-B-57 Series								-			

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SET +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

A4.2.1	Components and construction								-			
A4.2.2.	Remove/install/inspect/ open/close								-			
A4.2.2.1	Aerodynamic taping	5							-			
A4.2.2.2	Doors	5							-			
A4.2.2.3	Panels	5							-			
A4.2.2.4	Radomes	5							-			
A4.2.2.5	Fairings	5							-			
A4.2.2.6	AFT fuselage								-			
A4.2.2.7	Tail cone								-			
A4.2.2.8	FWD nacelle								-			
A4.2.2.9	MID nacelle	5							-			
A4.2.2.10	AFT nacelle								-			
A4.2.2.11	V-tails								-			
A4.2.2.12	Static dischargers								-			
A4.2.2.13	Wing extension tip								-			
A4.2.2.14	Airframe ballast	7							-			
A4.2.2.15	Dash -21 equipment	5							-			
A4.2.2.16	Fly away kit								-			
A4.3.	LANDING GEAR SYSTEM								-			
	TR: TO RQ4-B-32 Series								-			
A4.3.1	Components and theory of operation								-			
A4.3.2.	Remove/install/inspect								-			
A4.3.2.1	Landing gear selector valves								-			
A4.3.2.2	Landing Gear (LDG) bypass check valve								-			
A4.3.2.3	LDG manifold shuttle valve								-			
A4.3.2.4	LDG door manifold								-			
A4.3.3.	Perform LDG operational checks / bleed								-			
A4.3.3.1	LDG system								-			
A4.3.3.2	LDG system leak checks								-			
A4.3.3.3	LDG hike leak and operational check								-			
A4.3.4	Perform wheel bearing lubrication	5							-			
A4.3.5	Troubleshoot landing gear system								-			
A4.3.6.	Main landing gear								-			
A4.3.6.1.	Remove/install/inspect								-			
A4.3.6.1.1	MLG strut assembly								-			
A4.3.6.1.2	MLG upper/lower torque arm assembly								-			

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SET +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

A4.3.6.1.3	MLG torque arm assembly apex pin								-			
A4.3.6.1.4	MLG uplock roller and bracket								-			
A4.3.6.1.5	MLG side brace actuator								-			
A4.3.6.1.6	MLG uplock release actuator								-			
A4.3.6.1.7	MLG door actuator								-			
A4.3.6.1.8	MLG tire and wheel assembly	5							-			
A4.3.6.1.9	MLG wheel bearing assembly	5							-			
A4.3.6.1.10	MLG wheel speed transducer								-			
A4.3.6.1.11	MLG electric brake actuator assembly								-			
A4.3.6.1.12	MLG electric brake actuator								-			
A4.3.6.1.13	Brake system control unit								-			
A4.3.6.2	Perform MLG brake inspection								-			
A4.3.6.3	Perform MLG operational checks								-			
A4.3.6.3.1	MLG wheel speed transducer	5							-			
A4.3.6.3.2	Brake system control unit								-			
A4.3.6.4	Perform MLG door actuator rigging								-			
A4.3.7	Nose landing gear								-			
A4.3.7.1	Remove/install/inspect								-			
A4.3.7.1.1	NLG strut assembly								-			
A4.3.7.1.2	NLG upper/lower torque arm								-			
A4.3.7.1.3	NLG actuator								-			
A4.3.7.1.4	NLG hike solenoid valve								-			
A4.3.7.1.5	NLG dehike solenoid operated check valve								-			
A4.3.7.1.6	NLG hike restrictor/check valve								-			
A4.3.7.1.7	NLG tire and wheel assembly	5							-			
A4.3.7.1.8	NLG wheel bearing assembly	5							-			
A4.3.7.1.9	NLG steering assembly								-			
A4.3.7.2	Perform NLG operational checks / bleed								-			
A4.3.7.2.1	NLG hike system bleeds								-			
A4.3.7.2.2	NLG hike system operational checks								-			
A4.3.7.2.3	NLG steering assembly operational check								-			
A4.3.7.2.4	NLG steering assembly hydraulic system bleed								-			
A4.3.8	Emergency Landing Gear (ELG)								-			
A4.3.8.1	Remove/install/inspect								-			
A4.3.8.1.1	ELG pneumatic bottle assembly								-			

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

A4.3.8.1.2	ELG valve								-			
A4.3.8.1.3	NLG door emergency open actuator								-			
A4.3.8.1.4	NLG lock release actuator								-			
A4.3.8.2.	Perform ELG operational/leak checks								-			
A4.3.8.2.1	ELG system operational checks								-			
A4.3.8.2.2	ELG pneumatic bottle assembly leak and pressure check								-			
A4.4.	UTILITIES								-			
A4.4.1.	Ice and rain protection TR: TO RQ4-B-30 Series								-			
A4.4.1.1	Components and theory of operation								-			
A4.4.1.2	Remove/install/inspect ice detector								-			
A4.4.1.3	Perform ice detector operational checkout								-			
A4.4.2.	Lighting system TR: TO RQ4-B-33 Series								-			
A4.4.2.1	Components and theory of operation								-			
A4.4.2.2.	Remove/install/inspect								-			
A4.4.2.2.1	Wingtip light assembly								-			
A4.4.2.2.2	Wing navigation lamp								-			
A4.4.2.2.3	Tail lamp								-			
A4.4.2.2.4	Landing light assembly								-			
A4.4.2.2.5	Ground control panel lamp								-			
A4.4.2.3	Perform lighting test operational checkout								-			
A4.5.	FLIGHT CONTROL SYSTEM TR: TOs RQ4-B-27, RQ4-B-55, and RQ4-B-57 Series								-			
A4.5.1	Components and theory of operation								-			
A4.5.2	Remove/install/inspect actuators								-			
A4.5.3.	Remove/install/inspect control surfaces								-			
A4.5.3.1	Aileron (LH/RH IB/OB)								-			
A4.5.3.2	Spoiler (LH/RH IB/OB)								-			
A4.5.3.3	Ruddervator (LH/RH IB/OB)								-			
A4.5.4.	Rig actuators								-			
A4.5.4.1	Aileron actuator								-			
A4.5.4.2	Spoiler actuator								-			
A4.5.4.3	Ruddervator actuator								-			
A4.5.5.	Perform operational checkout								-			
A4.5.5.1	Aileron rotary actuator								-			

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

A4.5.5.2	Spoiler rotary actuator								-			
A4.5.5.3	Ruddervator rotary actuator								-			
A4.5.6	Troubleshoot								-			
A4.6.	HYDRAULIC SYSTEM								-			
	TR: TO RQ4-B-29 Series								-			
A4.6.1	Components and theory of operation								-			
A4.6.2.	Remove/install/inspect								-			
A4.6.2.1	Engine driven pump								-			
A4.6.2.2	Hydraulic reservoir								-			
A4.6.2.3	Hydraulic accumulator								-			
A4.6.2.4	System relief valves								-			
A4.6.2.5	Relief/manual bleed valve								-			
A4.6.2.6	Hydraulic fluid/heat exchanger								-			
A4.6.2.7	Check valves								-			
A4.6.2.8	Motor generator drain tank assembly								-			
A4.6.2.9	Filter modules								-			
A4.6.2.10	Filter elements								-			
A4.6.2.11	Ground connection in-line filter								-			
A4.6.2.12	Reservoir temperature transducer								-			
A4.6.2.13	Pump discharge pressure transducer								-			
A4.6.2.14	Associated tubing, hoses and fittings								-			
A4.6.3.	Perform operational check/bleed/purge/leak checks								-			
A4.6.3.1	Hydraulic system leak checks	5							-			
A4.6.3.2	Hydraulic system power on bleeds								-			
A4.6.3.3	Hydraulic system power off bleeds								-			
A4.6.3.4	Engine driven pump purge								-			
A4.6.3.5	Engine driven pump leak check								-			
A4.6.3.6	Relief/manual bleed valve								-			
A4.6.3.7	Reservoir temperature transducer								-			
A4.6.3.8	Pump discharge pressure transducer								-			
A4.6.4	Troubleshoot								-			
A4.7.	ENGINE SYSTEM								-			
	TR: TO RQ4-B-71, RQ4-B-73, RQ4-B-78, and RQ4-B-79 Series and Rolls Royce Maintenance Manual (RRMM) 2J-F137-2-CD-1								-			
A4.7.1	Components and theory of operation								-			
A4.7.2	Perform engine wash								-			

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SET +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

A4.7.3	Perform engine flush								-			
A4.7.4	Perform borescope inspection								-			
A4.7.5	Troubleshoot engine system								-			
A4.7.6.	Power plant, remove/install/inspect								-			
A4.7.6.1	Engine								-			
A4.7.6.2	Engine turbine charge convertor								-			
A4.7.6.3	Engine compressor charge convertor								-			
A4.7.6.4	Engine drain tank valve								-			
A4.7.7.	Perform engine operational checkouts								-			
A4.7.7.1	Engine run operation								-			
A4.7.7.2	Engine run operation max power								-			
A4.7.7.3	Engine leak test idle power	5							-			
A4.7.7.4	Engine turbine vibration analysis								-			
A4.7.7.5	Engine leak test max power								-			
A4.7.7.6	Engine compressor vibration analysis								-			
A4.7.7.7	Engine run ground maintenance windmill								-			
A4.7.8.	Engine fuel and control, remove/install/inspect								-			
A4.7.8.1	Full authority digital engine control								-			
A4.7.8.2	Internal engine harnesses								-			
A4.7.8.3	External engine harnesses								-			
A4.7.8.4	Fuel nozzles								-			
A4.7.8.5	Fuel pump and metering unit								-			
A4.7.8.6	Fuel pump metering unit filter								-			
A4.7.8.7	Fuel temperature sensor								-			
A4.7.8.8	Fuel flow sensor								-			
A4.7.8.9	Fuel filter electrical impending bypass indicator								-			
A4.7.8.10	Fuel filter mechanical actual bypass indicator								-			
A4.7.8.11	Alternator rotor								-			
A4.7.8.12	Ignition exciters								-			
A4.7.8.13	Alternator stator								-			
A4.7.8.14	Igniters								-			
A4.7.8.15	Igniter leads								-			
A4.7.8.16	Compressor air bleed valve upper/lower								-			
A4.7.8.17	Compressor acceleration bleed control valve								-			

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SEI +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

A4.7.8.18	Compressor inlet temp sensor								-			
A4.7.8.19	Compressor inlet pressure sensor								-			
A4.7.8.20	Fan speed sensor								-			
A4.7.8.21	Turbine interstage thermocouple harnesses								-			
A4.7.8.22	Front frame vibration sensor								-			
A4.7.8.23	Compressor vibration sensor								-			
A4.7.8.24	Engine exhaust duct								-			
A4.7.8.25	Compressor inlet pressure sensor								-			
A4.7.8.26	Oil tank								-			
A4.7.8.27	Lube and scavenge pump								-			
A4.7.8.28	Auxiliary scavenge pump								-			
A4.7.8.29	Oil filter unit								-			
A4.7.8.30	Oil filter element								-			
A4.7.8.31	Air cooled oil cooler								-			
A4.7.8.32	Fuel cooled oil cooler								-			
A4.7.8.33	Oil tank pressurizing valve								-			
A4.7.8.34	Oil temp/pressure sensor								-			
A4.7.8.35	Low oil pressure switch								-			
A4.7.8.36	Oil level and low-level warning sensor								-			
A4.7.8.37	Magnetic indicating plug								-			
A4.7.8.38	Oil filter electrical impending delta-p								-			
A4.7.8.39	Mechanical impending delta-p								-			
A4.7.8.40	Associated tubing, hoses and fittings								-			
A4.7.9.	Engine preservation shipment and storage								-			
A4.7.9.1	Perform 180 day preservation/storage								-			
A4.7.9.2	Perform engine, module, and components de-preserve								-			
A4.7.9.3	Preserve engine, module, and components								-			
A4.7.9.4	Perform engine acceptance inspection								-			
A4.7.9.5	Prepare engine for shipment								-			
A4.7.9.6.	Remove/install/inspect								-			
A4.7.9.6.1	Outer bypass duct panels								-			
A4.7.9.6.2	Inner bypass duct assembly								-			
A4.7.9.6.3	Aft sump cover								-			
A4.7.9.6.4	Exhaust cone								-			
A4.7.9.6.5	Fan blade forward retainer								-			

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SET +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

A4.7.9.6.6	Fan bypass vane								-			
A4.7.9.6.7	Fan spinner								-			
A4.7.9.6.8	First stage fan blade								-			
A4.7.9.6.9	Force core mixing duct								-			
A4.7.9.6.10	Force core mixing duct support								-			
A4.7.9.6.11	Fuel flow transmitter								-			
A4.7.9.6.12	N2 speed sensor								-			
A4.7.9.6.13	Shaft plug								-			
A4.8.	FUEL SYSTEM								-			
	TR: TO RQ4-B-21, RQ4-B-28 and RQ4-B-36 Series								-			
A4.8.1	Components and theory of operation								-			
A4.8.2	Perform fuel tank draining	5							-			
A4.8.3.	Remove/install/inspect								-			
A4.8.3.1	Drain valves								-			
A4.8.3.2	Shutoff valves								-			
A4.8.3.3	Pressure and vacuum relief valves								-			
A4.8.3.4	Engine fuel shutoff valve								-			
A4.8.3.5	Fuel/air heat exchangers								-			
A4.8.3.6	Fuel/oil heat exchangers								-			
A4.8.3.7	Fuel filter modules								-			
A4.8.3.8	Fuel filter elements								-			
A4.8.3.9	Bypass valves								-			
A4.8.3.10	Check valves								-			
A4.8.3.11	Fuel recirculation pump								-			
A4.8.3.12	Associated tubing/hoses and fittings								-			
A4.8.4.	Perform operational checkouts								-			
A4.8.4.1	Fuel system pressure check								-			
A4.8.4.2	Fuel system resistance check								-			
A4.8.4.3	Fuel system pressure check (nitrogen)								-			
A4.8.4.4	Fuel vent shutoff valve								-			
A4.8.4.5	FWD pressure and vacuum relief valve								-			
A4.8.4.6	AFT pressure and vacuum relief valve								-			
A4.8.4.7	Engine fuel shutoff valve								-			
A4.8.4.8	Refuel system receptacle								-			
A4.8.4.9	Fuselage tank SPR shutoff valve								-			
A4.8.4.10	RT wing SPR shutoff valve								-			

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment 5 / SET +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl

A4.8.4.11	LT wing SPR shutoff valve								-			
A4.9.	ELECTRICAL SYSTEM								-			
	TR: TO RQ4-B-24 Series											
A4.9.1	Components and theory of operation								-			
A4.9.2.	Remove/install/inspect								-			
A4.9.2.1	Hydraulic driven AC generator								-			
A4.9.2.2	Aircraft batteries								-			
A4.9.2.3	DC generator								-			
A4.9.2.4	25 KVA AC generator								-			
A4.9.3	Perform hydraulic driven AC generator operational checkout								-			
A4.9.4	Perform hydraulic driven AC generator bleed/leak check								-			
A4.9.5	Perform 25 KVA generator pressure decay check								-			
A4.10.	STARTING SYSTEM								-			
	TR: TO RQ4-B-80 Series											
A4.10.1	Components and theory of operation								-			
A4.10.2	Perform air turbine engine operational checkout								-			
A4.10.3	Troubleshoot starting system								-			
A4.10.4.	Remove/install/inspect								-			
A4.10.4.1	Air turbine engine starter								-			
A4.10.4.2	Engine start control valve								-			
A4.10.4.3	Associated tubing, hoses and fittings								-			
A4.11.	ENVIRONMENTAL CONTROL SYSTEM (ECS)								-			
	TR: TO RQ-4-B-21 series											
A4.11.1	Components and theory of operation								-			
A4.11.2	Remove and install desiccants								-			
A4.12.	SUPPORT EQUIPMENT								-			
	TR: Applicable Technical Data											
A4.12.1.	Perform pre-use inspection and operate								-			
A4.12.1.1	Portable floor crane								-			
A4.12.1.2	Overhead crane								-			
A4.12.1.3	Scissor lifts	5							-			
A4.12.1.4	Axle jacks								-			
A4.12.1.5	Engine run hold back kit								-			
A4.12.1.6	Bellmouth assembly								-			
A4.12.1.7	Engine sling assembly								-			
A4.12.1.8	V-tail sling assembly								-			
A4.12.1.9	Borescope								-			

RQ-4 QUALITATIVE REQUIREMENTS

1. Tasks, Knowledge And Technical References	2. Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided via ICW and/or course			
	Core/Cert ^	Deployment/ 5 / SEI +	A	B	C	D	E	A	B	C	D
			Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3-lvl	5-lvl	7-lvl	9-lvl
A4.12.2 RQ-4 tow bar								-			
A4.12.2.1 Purpose and description								-			
A4.12.2.2 Perform pre-use inspection and use								-			