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CFETP 2A7X5
Parts I and II
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AFSC 2A7X5

LOW OBSERVABLE AIRCRAFT STRUCTURAL MAINTENANCE

CAREER FIELD EDUCATION AND TRAINING PLAN

CAREER FIELD EDUCATION AND TRAINING PLAN
LOW OBSERVABLE AIRCRAFT STRUCTURAL MAINTENANCE SPECIALTY
AFSC 2A7X5
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CAREER FIELD EDUCATION AND TRAINING PLAN LOW OBSERVABLE AIRCRAFT STRUCTURAL MAINTENANCE SPECIALTY AFSC 2A7X5

PART I

Preface

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources, and minimum core task requirements for the 2A7X5, Low Observable Aircraft Structural Maintenance specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training. To read, review, or print a copy of the current CFETP, go to the Aircraft Maintenance Homepage at: https://afkm.wpafb.af.mil/community/views/home.aspx?Filter=OO-LG-AF-35 . This CFETP supersedes 2A7X5 CFETP, 31 Dec 08.

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

2. The CFETP consists of two parts; supervisors will use both parts plan, manage, and control training within the career field.

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

2.2 Part II includes the following: Section A contains the course objective list and training standards supervisors will use to determine if Airmen have satisfied training requirements. Section B identifies available support materials, such as Qualification Training Package (QTP) which may be developed to support proficiency training. Section C 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 D identifies MAJCOM unique training requirements supervisors can use to determine additional training required for the associated qualification needs. Section E 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. At unit level, supervisors and trainers will use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

3. Using guidance provided in the CFETP will ensure individuals in this specialty receive effective and efficient training at the appropriate point in their career. This plan will enable us to train today's work force for tomorrow's jobs.

ABBREVIATIONS/TERMS EXPLAINED

Advanced Training (AT). A formal course which provides individuals who are qualified in one or more positions of 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 the AFS.

Air Force Doctrine Development Center (AFDDEC). The center researches, develops, and produces Air Force basic and operational doctrine, as well as joint and multinational doctrine. **need definition**

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

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

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

Certification Official. A person the commander assigns to determine an individual's ability to perform a task to required standards.

Continuation Training. Additional training that exceeds requirements with emphasis on present or future duty assignments.

Contract Training. Type 1 training that receives the same priority funding as Air Force directed training. It supports initial groups of instructors, operators, etc., that the Air Force requires for new or modified weapon systems.

Core Task. Tasks that the Air Force Career Field Manager (AFCFM) identifies as minimum qualification requirements within an Air Force Specialty. This gives units needed flexibility to manage their workforce training. Tasks identified by */R as core tasks are optional for ANG and AFRC when training capability is not available, but must be accomplished when capability becomes available.

Course Objective List (COL). A publication identifying the tasks and knowledge requirements and respective standards provided to achieve a 3-7-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations in accordance with AFI 36-2201, *Air Force Training Program.*

Course Training Standard (CTS). Training standard that identifies the training members will receive in a specific course not covered in the CFETP.

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

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

Field Technical Training (Type 4/7). Special or regular on-site training conducted by a training detachment (TD) (Type 4) or by a mobile training team (MTT) (Type 7).

Integrated Maintenance Data System (IMDS). Formerly called Core Automated Maintenance System (CAMS); the primary Air Force production-oriented, base-level automated Maintenance Information System (MIS).

IMDS for Mobility (G081). Provides both a maintenance management system and a logistics command and control system for the C-5, C-130, KC-10, KC-135, and C-17 fleets.

Integrated Maintenance Information System (IMIS). The objective of IMIS is to give maintenance technicians a very small size portable computer/display that will interface with on-aircraft systems and other computer systems to provide a single, integrated source of the information needed to perform maintenance on the line and in the shop.

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

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

Low Observable Aircraft Structural Maintenance (LOASM).

MAJCOM Mandatory Course Listing (MMCL). Identifies mandatory maintenance training requirements for initial technical school graduates, retrainees, and personnel with no experience on assigned mission design series (MDS) aircraft. It also ensures maintenance personnel receive training commensurate to their current duty position.

Mission Design Series (MDS). Aircraft (i.e., B-2, F-22, F-35).

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

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

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

Resource Constraints. Resource deficiencies, such as funding, facilities, time, manpower, and equipment, that precludes desired training from being delivered.

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

Training by Other Government Agencies (Type 5). This training includes training conducted by the Army, Navy, Air Force agency or unit other than AETC, and other government agencies inside or outside of the Department of Defense (DoD).

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

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

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

Web Site Links

ECP	http://www.au.af.mil/au/afiadl/
CCAF	http://www.au.af.mil/au/ccaf/
ETCA	https://etca.randolph.af.mil/
HQ USAF/A4LF	https://afkm.wpafb.af.mil/community/views/home.aspx?Filter=OO-LG-AF-35
361 TRS	https://www.my.af.mil/gcss-af/USAF/ep/globalTab.do?command=org&channelPageId=s6925EC1349430FB5E044080020E329A9
367 TRS/TRSS	https://367trss.hill.af.mil/IMI.html
982 MXS/TST	https://www.my.af.mil/gcss-af/USAF/ep/globalTab.do?command=org&channelPageId=s6925EC1353200FB5E044080020E329A9
LO/ASM CoP	https://afkm.wpafb.af.mil/ASPs/CoP/OpenCoP.asp?Filter=OO-LG-OO-06
LO/ASM School CoP	https://afkm.wpafb.af.mil/community/views/home.aspx?Filter=AE-ED-00-23
AF Corrosion Office	https://www.my.af.mil/gcss-af/afp40/USAF/ep/globalTab.do?command=org&pageId=681742&channelPageId=-1986143
AF Composite	https://hillnet.hill.af.mil/ACO

Office

Section A - General Information

1. Purpose of the CFETP. This CFETP provides information necessary for Air Force Career Field Managers (AFCFMs), MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective career field training program. This plan outlines the training that individuals in AFSC 2A7X5 should receive to develop and progress throughout their career. This plan identifies initial skills, upgrade, qualification, advanced, and proficiency training. Initial skills training is the AFS specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. This training is conducted by AETC at Naval Air Station (NAS) Pensacola, FL. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 3-, 5-, 7-, and 9-skill levels. Qualification training is actual hands-on task performance training designed to qualify an Airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills/knowledge required to do the job. Advanced training is formal specialty training used for selected Airmen. Proficiency training is additional training, either in-residence or exportable advanced training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade. The CFETP has several purposes; some are:

1.1. To serve as a management tool to plan, manage, conduct, and evaluate a career field training program. It is also used to help supervisors identify training at the appropriate point in an individual's career.

1.2. To identify task and knowledge training requirements for each skill level in the specialty and recommends education/training throughout each phase of an individual's career.

1.3. To list training courses that are available in the specialty and identifies sources of training and the training delivery method.

1.4. To identify major resource constraints that impact full implementation of the desired career field training process.

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

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

2.2. MFMs will ensure their training programs complement the CFETP mandatory initial, upgrade, and proficiency requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable courses. MAJCOM-developed mandatory training to

support this AFS must be identified for inclusion into the plan and must not duplicate other available training resources.

2.3. Each individual will complete the mandatory training requirements specified in this plan. The lists 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 AFSC 2A7X5 and the AETC Training Manager will initiate an annual review of this document by AETC and MFMs to ensure currency and accuracy. The using 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 and Information

4. Specialty Description.

4.1. Specialty Summary. Refer to Air Force Enlisted Classification Directory (AFECD), paragraph 1. Evaluates, installs, removes, and repairs low observable coatings. Designs, repairs, modifies, and fabricates aircraft, metal, plastic, composite, advanced composite, low observable, and bonded structural parts and components. Applies preservative treatments to aircraft, aerospace ground equipment (AGE), and support equipment (SE). Related DoD Occupational Subgroup: 160300.

4.2. Duties and Responsibilities: Refer to Air Force Enlisted Classification Directory (AFECD), paragraph 2.

4.2.1. Applies low observable materials and coatings to aircraft. Repairs low observable and metallic structural parts and components to meet requirements for preserving structural integrity. Assesses damage impacts to aircraft signatures. Advises on structural and low observable repair, modification, and corrosion protection treatment with respect to original strength, weight, and contour to maintain structural and low observable integrity. Assembles repairs using special fasteners and adhesives. Checks repairs for serviceability according to specifications and technical publications. Manufactures layouts, jigs, fixtures, forms, and molds.

4.2.2. Paints aircraft and AGE/SE. Identifies, removes, and treats corrosion using mechanical and chemical procedures. Applies corrosion protective and low observable coatings. Applies aircraft paint schemes and markings.

4.2.3. Uses metalworking equipment and tools to form, cut, bend, and fasten replacement or repair parts to damaged structures and components. Fabricates, repairs, and assembles tubing and cable assemblies for aerospace weapon systems and AGE/SE. Maintains and inspects tools and equipment. Performs operator maintenance and service inspections on shop equipment and tools. Ensures lockout and tagout procedures are accomplished prior to performing shop equipment maintenance. Stores, handles, and disposes of hazardous waste and materials according to environmental standards and classifications.

4.2.4. Inspects coatings, structures, and components to determine operational status. Interprets inspection findings and determines corrective actions. Posts entries and maintains maintenance

and inspection records. Recommends methods to improve equipment performance and maintenance procedures. Uses automated maintenance systems. Inputs, validates, and analyzes data processed to automated systems. Clears and closes out completed maintenance discrepancies in automated maintenance systems.

5. Skill/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, manage, and conduct an effective training program. The guidance provided in this part of the CFETP will ensure each individual receives necessary training at appropriate points in their career. The following narrative and AFSC 2A7X5 career field table identify the skill/career progression.

5.1. Apprentice (3) Level. Following Basic Military Training, initial skills training will be provided in a resident course at Detachment 2, 361st Training Squadron, NAS Pensacola, Florida. The course will lay the foundation for additional training at the graduate's first duty assignment. Upon graduation, trainees will utilize the Career Development Courses (CDCs), task qualification training, and other exportable courses to progress in their career field. Once the trainer signs off the task, the trainee may perform the task unsupervised.

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

5.3. Craftsman (7) Level. A craftsman can expect to fill various supervisory and management positions such as shift leader, element chief, shop chief, and various staff positions such as quality assurance. Exportable MDS specific courses and MAJCOM/unit directed courses are also available. A 7-level should take courses or obtain added knowledge in management of resources and personnel. Continued academic education through CCAF and higher degree programs is encouraged in their respective career field. In addition, when promoted to TSgt, individuals will attend the Noncommissioned Officer Academy.

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

6. Training Decisions. The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Low Observable Aircraft Structural Maintenance career field. The spectrum includes a strategy for when, where, and how to meet these training requirements. The strategy must ensure we develop affordable training, eliminate duplication, and prevent a fragmented approach to training. The following training

decisions were made at the career field utilization and training workshop held at NAS Pensacola, Florida from 09-13 August 2010.

6.1. Initial Skills. Initial skills training includes the tasks common to both ASM and LOASM career fields as well as LO-specific tasks. LO fundamentals will be taught at the "B" level; LO tasks will be taught at the "1b" level. The initial skills course will be generic and will be taught at the unclassified level. The projected course length will be 76 days.

6.2. Five-Level Upgrade Requirements. There will be 90 common 5-level core tasks, plus 37 for B-2 and 40 for F-22. Total 5-level core task listed is 167. The 2A753 CDCs will be used as the basis for the 2A755 CDCs. Tasks that do not apply to the LO career field will not be included in the 2A755 CDCs.

6.3. Seven-Level Upgrade Requirements. There will be six common 7-level core tasks, plus 5 more for B-2. Total 7-level core task listed is 11. There are no 2A775 CDCs; LOASM personnel will complete the 2AX7X CDCs.

6.4. Supplemental Training. The ASM supplemental courses are available to both ASM and LOASM personnel.

6.5. Continuation Training. Any additional knowledge and skill requirements which were not taught through initial or upgrade training are assigned to unit training or Training Detachments. The purpose of the continuation training program is to provide additional training exceeding minimum upgrade training requirements with emphasis on present and future duty positions. MAJCOMs develop a proficiency training program that ensures individuals in the Low Observable Aircraft Structural Maintenance career field receive the necessary training at the appropriate point in their career. The program identifies both mandatory and optional training requirements.

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

7.1. 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. Completing the Air Force A&P Certification Program, managed by CCAF, will fill training and experience gaps, ensuring FAA eligibility. The program consists of three Air University Online A&P Specialized Courses, OJT and experience requirements contained in a Qualification Training Package (QTP). Technicians may enroll in the program once they have been awarded the 5-skill level. To learn more, visit CCAF at http://www.au.af.mil/au/ccaf/certifications.asp . CCAF awards 30 semester hours for FAA A&P certification and 18 semester hours for FAA Airframe or Powerplant certification.

7.2. SpaceTEC Aerospace Technician Certification. Air Force aircraft maintenance technicians are eligible to pursue SpaceTEC Aerospace Technician certification based on aviation training and experience. SpaceTEC certification is endorsed by NASA and the Aerospace industry. Air University Online offers a Specialized Course to assist technicians prepare for the Aerospace Technician certification exams. To learn more, visit SpaceTEC at http://www.spacetec.org/ or CCAF at http://www.au.af.mil/au/ccaf/certifications.asp . CCAF awards 25 semester hours for the SpaceTEC Aerospace Technician certification.

7.3. CCAF Instructor Certification (CIC) Program. CCAF offers the three-tiered CIC Program for qualified instructors teaching at CCAF affiliated schools who have demonstrated a high level of professional accomplishment. The purpose of the certifications is to recognize the outstanding instructor training provided to prepare them to teach CCAF collegiate courses. The certifications also formally acknowledge the instructor's advanced levels of qualifications and experience. Upon completion of the CCAF Faculty Development Program, consisting of the Basic Instructor Course (BIC) and CCAF Teaching Internship, CCAF instructors who complete program requirements may be nominated for certification by their school commander or commandant. The CIC Program replaced the CCAF Occupational Instructor Certification Program.

7.4. CCAF Instructional Systems Development (ISD) Certification Program. CCAF offers the ISD Certification Program for qualified course/curriculum developers and managers who are formally assigned at CCAF affiliated schools to develop and manage CCAF collegiate courses. The purpose of the certification is to recognize the course/curriculum developer's or manager's extensive training, education, qualifications and experience required to develop and manage CCAF courses. Course/curriculum developers and managers who complete program requirements may be nominated for certification by their school commander, commandant or faculty development chief.

7.5. CCAF Professional Manager Certification (PMC). CCAF offers the PMC Program for Air Force SNCO's. The purpose of the certification is to formally recognize the individual's outstanding education and training required to lead and manage Air Force personnel and critical national defense assets. It also acknowledges the individuals management qualifications and experience in managing Air Force resources. Qualified Air Force enlisted personnel are eligible to pursue this certification. SNCO's who complete program requirements may be nominated for certification by their unit commander or commandant.

7.6. CCAF Credentialing and Education Research Tool (CERT). CCAF implemented CERT to increase awareness of professional development opportunities applicable to Air Force occupational specialties. It is a valuable resource for Air Force enlisted personnel and provides information related to specific AFSCs, such as: AFSC description; civilian occupation equivalencies (US Department of Labor); CCAF degree programs; national professional certifications; certifying agencies; DANTES testing; and professional organizations. To learn more, visit CCAF at http://www.au.af.mil/au/ccaf/certifications.asp.

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

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

7.7.1. Technical Education (24 Semester Hours): Completion of the LOASM Apprentice course satisfies some semester hours of the technical education requirements. A minimum of 24 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective courses.

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

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

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

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

7.8. Air Education and Training Command (AETC) Instructor Requirements: Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an AETC instructor should be actively pursuing an associate degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools.

8. Career Field Path

8.1. Enlisted Career Path. Table 8.1 identifies career milestones for the 2A7X5 AF Specialty.

Table 8.1. Enlisted Career Path

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 16 months		
Upgrade To Journeyman (5-Skill Level) - Minimum 12 months on-the-job training. - Minimum 9 months on-the-job training for retrainees. - Complete all 5-level core tasks on one MDS. - Complete applicable CDC.	Amn A1C SrA	6 months 16 months 3 years	28 months	10 years
Airman Leadership School (ALS) - Must be a SrA with 48 months time in service or be a SSgt selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).	**Trainer** - Trained and qualified to perform the task to be trained - Must attend the Air Force Training Course			
	Certifier - Must be a SSgt with a 5-skill level or civilian equivalent. - Must attend the AF Training Course. -Be a person other than the trainer except for AFSCs, duty positions, units, and/or work centers with specialized training standardization and certification requirements.			
Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt. - Minimum 12 months on-the-job training. - Minimum 6 months on-the-job training for retrainees. - Complete all 5- and 7-level core tasks on one mission design aircraft. - Complete applicable CDC.	SSgt	4.6 years	3 years	20 years
Noncommissioned Officer Academy (NCOA) - Must be a TSgt, MSgt Selectee, or MSgt - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt MSgt	10.4 years 17.5 years	5 years 8 years	22 years 24 years
USAF Senior NCO Academy (SNCOA) - Must be a MSgt, SMSgt, or SMSgt Selectee. - Resident graduation is a prerequisite for SMSgt sew-on (Active Duty Only). **Upgrade To Superintendent** (9-Skill Level) - Minimum rank of SMSgt.	SMSgt	20.4 years	11 years	26 years
Chief Enlisted Manager (CEM)	CMSgt	23.9 years	14 years	30 years

8.2. Base/Unit Education and Training Manager Checklist:

Table 8.2. Base/Unit Education and Training Manager Checklist		
Requirements for Upgrade to:	**Y**	**N**
Journeyman - Has the apprentice completed mandatory CDCs? - Has the apprentice completed all appropriate 5-level core tasks identified in the CFETP? - Has the apprentice completed 12 months training (9 months for retrainees) for award of the 5-skill level? - Has the apprentice met mandatory requirements listed in specialty description Air Force Enlisted Classification Directory (AFECD) and the CFETP? - Has the apprentice been recommended by their supervisor?		
Craftsman - Has the journeyman achieved the rank of SSgt? - Has the journeyman completed mandatory 2AX7X CDCs? - Has the journeyman completed all core tasks identified in the CFETP? - Has the journeyman completed a minimum 12 months (6 months for retrainees) UGT for award of the 7-skill level?		

TO: Squadron/CC

FROM: Squadron Training Manager

SUBJECT: Upgrade Trainee

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

_____ _____

Training Manager Supervisor

Section C - Skill Level Training Requirements

9. Purpose. Skill level training requirements in the 2A7X5 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 task and knowledge training requirements are identified in the STS at Part II, Sections A and E of this CFETP.

10. Specialty Qualification Requirements. The various skill levels in this career field are defined in terms of tasks and knowledge proficiency requirements for each skill level. They are stated in broad general terms and establish the standards of performance. Unit work centers must develop a structured training program to ensure the following requirements are met.

10.1. Apprentice Level Training (3-Level):

10.1.1. Specialty Qualification. This information is located in the official specialty description in Air Force Enlisted Classification Directory (AFECD), paragraph 3.

10.1.1.1. Knowledge. The following knowledge is mandatory: LO aircraft construction features; identification and characteristics of materials; repair of coatings, LO materials, metal tubing, plastic, fiberglass, bonded honeycomb, and advanced composite structural components; shop drawing and layout techniques; shop mathematics; corrosion identification, removal, repair, and prevention; removal/application of protective coatings, LO materials; proper use, mixing, and storage of acids, solvents, alcohol, caustics, primers, and paints; and proper handling and disposal of hazardous waste and materials.

10.1.1.2. **Education.** For entry into this specialty, completion of high school is mandatory. Courses in algebra, chemistry, physics, mechanical drawing, and metal working are desirable.

10.1.1.3. Training. For award of AFSC 2A735, completion of the basic low observable aircraft structural maintenance course is mandatory.

10.1.1.4. Experience. None

10.1.2. Training Sources and Resources. The initial skills course will provide the required knowledge and qualification.

10.1.3. Implementation. Upon graduation from Basic Military Training (BMT), completion of the Low Observable Aircraft Structural Maintenance Apprentice course is mandatory. This course satisfies the knowledge and training resource requirements for award of the 3-skill level.

10.2. Journeyman Level Training (5-Level):

10.2.1. Specialty Qualification. This information is located in the official specialty description in Air Force Enlisted Classification Directory (AFECD), paragraph 3.

10.2.1.1. Knowledge. The following knowledge is mandatory: LO aircraft construction features; identification and characteristics of materials; repair of coatings, LO materials, metal tubing, cable, plastic, fiberglass, bonded honeycomb, and advanced composite structural components; shop drawing and layout techniques; shop mathematics; corrosion identification, removal, repair, and prevention; removal/application of protective coatings, LO materials; proper use, mixing, and storage of acids, solvents, alcohol, caustics, primers, and paints; and proper handling and disposal of hazardous waste and materials.

10.2.1.2. Education. There are no additional education requirements beyond those defined for the apprentice level. However, completion of a CCAF degree is desirable.

10.2.1.3. Training. For award of AFSC 2A755, the 5-level CDC provides the career knowledge training required. Qualification training and OJT will provide training and qualification on the core tasks identified in the STS. The CDC is written to build from the trainee's current knowledge base, and provides more in-depth knowledge to support OJT requirements.

10.2.1.4. Experience. Qualification in and possession of AFSC 2A735. Also, experience in functions such as fabricating, repairing, assembling, or applying aircraft low observable materials, metals, plastics, fiberglass, advanced composites, or honeycomb parts; or corrosion identification, removal, and applying coatings and markings. Completion of all 5-level core tasks on one MDS aircraft identified in the STS is mandatory.

10.2.2. Training Sources and Resources. A minimum of 12 months (9 months for retrainees) on-the-job training, completion of the 2A755 CDC, and completion of the 5-level core tasks represent the resources needed for award of the 5-skill level.

10.2.3. Implementation. Training to the 5-level is performed by the units utilizing this STS, exportable courses, and CDCs. Upgrade to the 5-level requires completion of the 2A755 CDC, completion of all core tasks on one MDS aircraft, and 12 months upgrade training.

10.3. Craftsman Level Training (7-Level):

10.3.1 Specialty Qualification. This information is located in the official specialty description in Air Force Enlisted Classification Directory (AFECD), paragraph 3.

10.3.1.1. Knowledge. In addition to 5-level knowledge, a 7-level must possess knowledge of: supervisory responsibilities (i.e., training documentation, equipment management, supply management, etc.) and workload planning (i.e., job prioritization, task assignment, personnel scheduling, etc.).

10.3.1.2. Education. There are no additional education requirements beyond those defined for the journeyman level. However, completion of a CCAF degree is desirable.

10.3.1.3. Training. Completion of the 2AX7X CDC and of the 7-level core tasks represent the requirements for award to the 7-skill level.

10.3.1.4. Experience. Qualification in and possession of AFSC 2A755. Also, experience supervising functions dealing with inspection and repair of low observable materials, process verification, and coatings; corrosion identification, prevention, and repair; applying protective coatings and markings; or fabricating, assembling, and repairing metal, fiberglass, advanced composites, honeycomb, and plastic components.

10.3.2. Training Sources and Resources. Completion of CDC 2AX7X, along with completion of AFCFM directed core tasks, represent the sources required for award of the 7-skill level.

10.3.3. Implementation. Upgrade to the 7-level will require completion of all AFCFM directed core tasks, a minimum of 12 months OJT as SSgt, and completion of the 2AX7X CDC.

10.4. Superintendent Level Training (9-Level):

10.4.1 Specialty Qualification. This information is located in the official specialty description in Air Force Enlisted Classification Directory (AFECD), paragraph 3.

10.4.1.1. Knowledge. To perform duties at the 9-skill level, an individual must possess basic knowledge of the following: aircraft structural maintenance, low observable aircraft structural maintenance, metals technology, corrosion control, and non-destructive inspection methods; concepts and application of maintenance directives; maintenance data reporting.

10.4.1.2. Education. There are no additional education requirements beyond those defined for the craftsman level. However, completion of a CCAF degree is desirable.

10.4.1.3. Training. For award of AFSC 2A790, promotion to SMSgt is mandatory.

10.4.1.4. Experience. For award of AFSC 2A790, qualification in and possession of AFSC 2A771, 2A772, 2A773, or 2A775 is mandatory. Also, experience in managing or directing repair activities for aircraft structural maintenance, metals technology, corrosion control, low observable aircraft structural maintenance, or non-destructive inspection specialties and functions is mandatory.

10.4.2. Training Sources and Resources. None.

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

Section D - Resource Constraints

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

12. Apprentice Level Training. There are no manpower/man-year or equipment/resource constraints.

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

14. Seven-Level Training. There are no constraints.

***Section E. - Transitional Training Guide*.** There are no transition training requirements. This area is reserved.

PART II

Section A - Course Objective List

1. Measurement. 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 so the student knows what is expected of them to successfully complete training on each task. Each objective is comprised of a condition, behavior, and standard which states what is expected of the student for each task. The condition is the setting in which the training takes place. The behavior is the action a student must demonstrate to accomplish a task (i.e., remove and install wheel and tire assembly). The standard is the level of performance that is measured to ensure the STS proficiency code level is attained. Each objective uses letter code(s) to identify how it is measured. All objectives use the **PC** code which indicates a progress check is used to measure subject or task knowledge. Progress checks are also used to measure student accomplishment of performance objectives. **W** indicates a comprehensive written test and is used to measure the subject and/or task knowledge at the end of a block of instruction. **PC/W** indicates separate measurement of both knowledge and performance elements using a written test and a performance progress check.

2. Standard. The minimum standard is 70% on written examinations. Standards for performance measurement are indicated in the objective and delineated on the individual progress 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.

3. 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 Part II, Section E 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. Most LO-specific task performance is taught to the "1b" proficiency level which means the student **can do simple parts** of the task, and needs to be told or shown how to do most of the task (**extremely limited**). The student can also determine step by step procedures for doing the task.

4. Course Objectives. A detailed listing of initial skills objectives may be obtained by submitting a written request to the AETC Training Manager, 361 TRS/TRR, 501 Missile Road, Sheppard AFB TX 76311-2264.

Section B - Support Material

5. The following list of support material is not all inclusive; however, it covers the most frequently referenced areas. Support material is any training package designed to enhance the learning process at any level of training. Refer to the Air Force Education and Training Course Announcements (ETCA) for information on AETC formal courses. ETCA can be accessed at https://etca.randolph.af.mil/.

5.1. Interactive Courseware (ICW) courses are available from (or under development by) 367 TRS/TRSS, Hill AFB, Utah. Their course catalog is available on the Internet at https://367trss.hill.af.mil/catalog . Questions should be referred to the customer service number at DSN 777-2788.

5.2. This paragraph lists the Training Detachment courses and address for points of contact for information on these courses. The address is 372 TRS/CCS, 912 I Avenue, Sheppard AFB, Texas 76311-2361.

COURSE NUMBER	COURSE TITLE	OPR
J4AMP2A7X5 A02A	B-2 Composite Repair	372 TRS
J4AMP2A7X5 B02A	B-2 Low Observable Maintenance	372 TRS
J4AMP2A7X5 A27A	F-22 Structural Maintenance Basic Coatings and Hardware (Conversion Training)	372 TRS
J4AMP2A7X5 B27A	F-22 Structural Maintenance Advanced Coatings and Hardware (Conversion Training)	372 TRS
J4AMP2A7X5 C27A	F-22 Structural Maintenance Coatings Assessment (Conversion Training)	372 TRS

Section C - Training Course Index

6. Purpose. This index lists Air Force resident, Career Development Courses (CDC), and exportable courses used to support training for this specialty. Refer to the Air Force Education and Training Course Announcements (ETCA) at https://etca.randolph.af.mil/ for information on AETC formal courses listed below. For further information on the following courses, contact the OPR at:

361 TRS/TRR
501 Missile Road
Sheppard AFB, TX 76311-2264
DSN 736-7492

6.1. Air Force In-Resident Courses:

COURSE NUMBER	TITLE	OPR
JCABP2A735 048A	Low Observable Aircraft Structural Maintenance Apprentice	361 TRS
JCAZP2A753 0B1B	Aircraft Metal Bonded Repair	361 TRS
JCAZP2A753 0C1B	General Advanced Composite Repair	361 TRS
JCAZP2A753 0F1B	Aircraft Balancing and Fasteners	361 TRS
J7AZT2A753 0M1B	Corrosion Prevention and Control (MTT)	361 TRS
J7AZT2A753 0M2B	Basic Repairs to Composites (MTT)	361 TRS

6.2. Career Development Courses (CDC).

COURSE NUMBER	TITLE	OPR
CDC 2A755	Low Observable Aircraft Structural Maintenance Journeyman	361 TRS
CDC 2AX7X	Aerospace Maintenance Craftsman	362 TRS

6.3. Exportable Courses.

COURSE NUMBER	TITLE	OPR	MEDIA
J6AZWXXXXX 0G1A	AF Technical Order System (General)	362 TRS	WBT
J6AZWXXXXX 0A1A	AF Technical Order System (Advanced)	362 TRS	WBT
J6AZW2AX5X 0B1A	Integrated Maintenance Data System (IMDS) For Backshop	362 TRS	WBT
J6AZW2AX5X 0S1A	Integrated Maintenance Data System (IMDS) For Supervisors	362 TRS	WBT
I3ADU00TCB0002	Corrosion Prevention and Control	367 TRSS	CBT
C6ANU00TVT0001	Aircraft Wash Training	367 TRSS	Video

For further information contact the OPR at:
362 TRS
613 10th Ave
Sheppard AFB, TX 76311-2352
DSN 736-5206/6184
https://etca.randolph.af.mil

For further information contact the OPRs at:

367 TRSS 6058 Aspen Ave Hill AFB, UT 84056-5805 DSN 777-7830/8741 https://367trss.hill.af.mil/IMI.html	982 MXS/TSU 912 I Ave Ste 4 Sheppard AFB, TX 76311-2334 DSN 736-3001 https://www.my.af.mil/gcss-af/USAF/ep/globalTab.do?command=org&channelPageId=s6925EC1353200FB5E044080020E329A9

6.4. Courses Under Development/Revision.

COURSE NUMBER	TITLE	OPR
JCABP2A735 048A	Low Observable Aircraft Structural Maintenance Apprentice	Det 2, 361 TRS

Section D – MAJCOM-Unique Requirements.

7. For MAJCOM-unique requirements, refer to the following web sites

Combat Air Force (CAF): https://lg.acc.af.mil/lgq/lgqt/NEWLGQTHOME.html

Section E - Specialty Training Standard

8. Implementation. This STS will be used for technical training provided by Air Education and Training Command for the apprentice class beginning 05 May 2011. The 5-level CDC need date is 30 Sept 2011.

9. Purpose of this STS. As prescribed in AFI 36-2201, this STS:

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

9.2. Identifies in column 2 (Core Tasks) by asterisk (*), specialty-wide training requirements. Tasks identified by */R as core tasks are optional for ANG and AFRC when training capability is not available, but must be accomplished when capability becomes available.
If the task is not already designated as a core task, place just the circle at the appropriate location in the core task column.

9.2.1. Core tasks which 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).

9.2.2. For units with more than one mission design series (MDS) (e.g., A-10) aircraft, upgrade trainees need only complete core tasks on a single mission design. MFMs, unit commanders, and/or supervisors may require trainees to complete core task training on additional mission design aircraft, if desired. If some of these core tasks involve training in another unit on base, trainees must still complete all core tasks relevant to at least one mission design aircraft.

Flightline assigned personnel must complete backshop core tasks and vice versa. All units are bound by the requirements in this CFETP and will accommodate core task trainees from other units.

9.3. Provides certification for OJT. Column 3 is used to record completion of tasks and knowledge training requirements. Use automated training management systems to document technician qualifications, if available. Task certification must show a certification completed date.

9.4. Shows formal training and correspondence course requirements. Column 4 shows the proficiency to be demonstrated on the job by the graduate as a result of training on the task/knowledge and the career knowledge provided by the correspondence course. When two codes are used in columns 4A and 4C (e.g., 2b/b), the first code is the established requirement for resident training on the task/knowledge, and the second code indicates the level of training provided in the course due to equipment shortages or other resource constraints. See AFDDEC/AFSC/CDC listing maintained by the unit training manager for current CDC listing.

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

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

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

11.1. Documentation. Document and certify completion of training IAW AFI 36-2201. Use of Part II and attachments one and two in conjunction with attachments three through five (as applicable to assigned MDS) of this CFETP are mandatory in individual training records. Use of Part I of this CFETP is optional. Identify duty position requirements by entering into automated training management systems. As a minimum, complete the following columns in Part 2 of the CFETP: date training started, date training completed, trainee initials, and trainer initials.

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

11.1.2. Documenting Career Knowledge. When a CDC is not available, the supervisor identifies CFETP Part II training references that the trainee requires for career knowledge and ensures, as a minimum, that trainees cover the mandatory items in Air Force Enlisted Classification Directory (AFECD). For two-time CDC course exam failures, supervisors identify all Part II items corresponding to the areas covered by the CDC. The trainee completes a study of references, undergoes evaluation by the trainer, and receives certification on the CFETP Part II. ***Supervisors must document successful completion of career knowledge prior to submission of a CDC waiver.***

11.2. AF Form 797. When additional items not listed in the CFETP Part II are necessary in the current duty assignment, enter them on the AF Form 797.

12. Recommendations: Report unsatisfactory performance of individual course graduates to the AETC training manager at 361 TRS/TRR, 501 Missile Road, Sheppard AFB TX, 76311-2264, DSN 736-7492. Reference specific STS paragraphs. A graduate assessment survey (GAS) and a customer service information line have been installed for the supervisor's convenience to identify graduates who may have received over or under training on task/knowledge items listed in this training standard. For a quick response to problems, call our customer service information line, DSN 736-5236, any time, day or night.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

LOREN M. RENO,
Lieutenant General, USAF
DCS/Installations, Logistics and Mission Support

6 Attachments:
1. Proficiency Code Key
2. Generic STS
3. Aircraft Specific STS – B-2
4. Aircraft Specific STS – F-22
5. Aircraft Specific STS – F-35
6. STS – 2AX7X CDC

PROFICIENCY CODE KEY

This Block Is For Identification Purposes Only		
Name Of Trainee		
Printed Name (*Last, First, Middle Initial*)	Initials (Written)	SSAN (last four)

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***

QUALITATIVE REQUIREMENTS

Proficiency Code Key		
	Scale Value	**Definition: The individual**
Task Performance Levels	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (Extremely Limited)
	2	Can do most parts of the task. Needs only help on hardest parts. (Partially Proficient)
	3	Can do all parts of the task. Needs only a spot check of completed work. (Competent)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (Highly Proficient)
*Task Knowledge Levels	a	Can name parts, tools, and simple facts about the task. (Nomenclature)
	b	Can determine step by step procedures for doing the task. (Procedures)
	c	Can identify why and when the task must be done and why each step is needed. (Operating Principles)
	d	Can predict, isolate, and resolve problems about the task. (Advanced Theory)
**Subject Knowledge Levels	A	Can identify basic facts and terms about the subject. (Facts)
	B	Can identify relationship of basic facts and state general principles about the subject. (Principles)
	C	Can analyze facts and principles and draw conclusions about the subject. (Analysis)
	D	Can evaluate conditions and make proper decisions about the subject. (Evaluation)

Explanations

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

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

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

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

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

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
ATTACHMENT 2 NOTE 1: Users are responsible for annotating training references to identify current references pending STS revision. NOTE 2: All tasks and knowledge identified as training requirements in column 4A will be taught during wartime. NOTE 3: Items in column 2A/2B marked with an asterisk (*) identify core tasks. Tasks identified by */R as core tasks are optional for ANG and AFRC when training capability is not available, but must be accomplished when capability becomes available.												
2.1	SECURITY TR: DOD 5200.1-R, Information Security Program								A	-	-	-
2.2	AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: AFIs 91-301, 91-302;TOs 00-110N-3 and -42 series; applicable OSHA/AFOSH standards											
2.2.1	Hazards of AFSC 2A7X5											
2.2.1.1	In shop								A	-	-	-
2.2.1.2	Flight line								A	-	-	-
2.2.1.3	Respiratory protection equipment								-	-	-	-
2.2.1.4	Maintain AF Form 55 (Employee Safety and Health Record) TR: Applicable AFOSH STDs								-	-	-	-
2.3	HAZARDOUS MATERIALS AND WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS TR: Applicable AFOSH STDs											
2.3.1	Types of hazardous materials								B	B	-	-
2.3.2	Handling procedures								B	B	-	-
2.3.3	Storage and labeling								B	B	-	-
2.3.4	Proper disposal of hazardous materials	*							B	B	-	-
2.3.5	Proper disposal of coating materials	*							B	B	-	-
2.4	HAZARDOUS COMMUNICATION TRAINING TR: AFI 90-821								-	-	-	-
2.5	SUPERVISION AND TRAINING TR: AFIs 21-101; 36-2201; Air Force Enlisted Classification Directory (AFECD)											
2.5.1	Perform Corrosion Manager Responsibilities								-	-	-	-
2.5.2	Aircraft Wash Management								-	B	-	-
2.5.3	Train Personnel											
2.5.3.1	Determine training requirements								-	-	-	-
2.5.3.2	Assign OJT trainers or supervisors								-	-	-	-
2.5.3.3	Conduct training								-	-	-	-
2.5.3.4	Maintain records								-	-	-	-
2.5.3.5	Counsel trainees on training progress								-	-	-	-
2.5.4	OJT Trainer Requirements											

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.5.4.1	Prepare teaching outlines or task breakdowns								-	-	-	-
2.5.4.2	Provide trainees theory and train on actual equipment								-	-	-	-
2.5.4.3	Evaluate trainee's knowledge and abilities								-	-	-	-
2.5.4.4	Provide supervisor and trainer feedback on results of training provided, and trainee's strengths and/or weaknesses								-	-	-	-
2.5.6	Manage Resources TR: AFMAN 23-110											
2.5.6.1	Analyze workload requirements								-	-	-	-
2.5.6.2	Coordinate with other agencies								-	-	-	-
2.5.6.3	Determine or establish priorities								-	-	-	-
2.5.6.4	Adjust daily maintenance plans to meet operational commitments								-	-	-	-
2.5.6.5	Direct maintenance activities								-	-	-	-
2.5.6.6	Maintain Equipment Accountability								-	-	-	-
2.5.6.7	Plan and Schedule Maintenance								-	-	-	-
2.5.7	Determine Authorized Materials with: TR: TO 1-1-8, 1-1-690, 1-1-691, 1-1-694; Applicable TOs											
2.5.7.1	Technical Orders								-	B	-	-
2.5.7.2	Qualified Products Listings (QPLs)								-	A	-	-
2.5.7.3	Qualified Products Database (QPD)								-	A	-	-
2.5.7.4	Mil Specs								-	B	-	-
2.5.8	Supplies											
2.5.8.1	Issue								-	-	-	-
2.5.8.2	Establish levels								-	-	-	-
2.5.8.3	Maintain levels								-	-	-	-
2.5.8.4	Shelf Life Program								A	B	-	-
2.5.8.5	Deficiency Reporting Program								-	-	-	-
2.5.8.6	Initiate deficiency reports								-	-	-	-
2.5.8.7	Depot Level Repairable (DLR)								-	-	-	-
2.5.8.7.1	Identify								-	-	-	-
2.5.8.7.2	Process								-	-	-	-
2.6	TOOLS AND EQUIPMENT TR: TOs 1-1A-8, 1-1-690, 1-1-691, 1-1-694, AFI 21-101, applicable -32, -33, -34 series TOs, and equipment manuals											
2.6.1	Composite Tool Kits (CTKs)											
2.6.1.1	Inventory	*							2b	-	-	-
2.6.1.2	Manage								-	-	-	-
2.6.1.3	Use Tool Accountability System (TAS)								-	-	-	-
2.6.1.4	Lost tool reporting								A	-	-	-
2.6.1.5	Conduct lost tool investigation								-	-	-	-
2.6.2	Hand tool use								2b	B	-	-
2.6.3	Maintain tools								-	-	-	-
2.6.4	Maintain shop equipment	*							-	b	-	-

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.6.5	Use Shop Equipment											
2.6.5.1	Arbor press								-	-	-	-
2.6.5.2	Band saw	*							2b	b	-	-
2.6.5.3	Weld band saw blades								-	-	-	-
2.6.5.4	Bar folding machine								2b	-	-	-
2.6.5.5	Brakes											
2.6.5.5.1	Box and pan	*							2b	b	-	-
2.6.5.5.2	Cornice	*							2b	b	-	-
2.6.5.5.3	Power								-	-	-	-
2.6.5.5.4	Press								-	-	-	-
2.6.5.6	Dimpling machine								-	-	-	-
2.6.5.7	Drill press	*							2b	b	-	-
2.6.5.8	Stationary Grinder								2b	b	-	-
2.6.5.9	Optical micrometer								-	-	-	-
2.6.5.10	Rotary (turret) punch								2b	-	-	-
2.6.5.11	Shears											
2.6.5.11.1	Foot	*							2b	b	-	-
2.6.5.11.2	Power								2b	b	-	-
2.6.5.11.3	Scroll								2b	b	-	-
2.6.5.11.4	Throatless	*							-	b	-	-
2.6.5.12	Shrinking and stretching machine								-	-	-	-
2.6.5.13	Slip roll former								-	-	-	-
2.6.5.14	Stationary sander	*							2b	b	-	-
2.6.6	Use Coating Application Equipment											
2.6.6.3	Film gauge, dry								-	b	-	-
2.6.6.4	Film gauge, wet	*							2b	b	-	-
2.6.6.5	High Volume Low Pressure											
2.6.6.5.1	Use	*							2b	b	-	-
2.6.6.5.2	Maintain	*							2b	b	-	-
2.6.6.6	Paint booth								-	-	-	-
2.6.6.7	Paint shaker (agitator)	*							2b	b	-	-
2.6.6.8	Pit depth gauge	*							2b	b	-	-
2.6.6.9	Media blasting booth								2b	b	-	-
2.6.6.10	Media blasting cabinet								2b	b	-	-
2.6.6.11	Pneumatic compactor								-	-	-	-
2.6.6.12	Pressure pots											
2.6.6.12.1	Fundamentals								A	B	-	-
2.6.6.12.2	Use								-	-	-	-
2.6.6.12.3	Maintain								-	-	-	-
2.6.6.13	Recovery still (chemical distillation)								-	-	-	-
2.6.6.14	Sanding booth								-	-	-	-
2.6.6.15	Spray gun cleaning unit								2b	B	-	-
2.6.6.16	Spray equipment troubleshooting								B	B	-	-
2.6.6.17	Spray pattern defects								B	B	-	-
2.6.6.18	Sempens								A	A	-	-
2.6.6.19	Brushes								A	A	-	-
2.6.5.20	Use rollers								2b	b	-	-
2.6.7	Use Composite Equipment											
2.6.7.1	Heat gun								-	-	-	-
2.6.7.2	Hot air gun (Nitrogen)	*							2b	b	-	-

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.6.7.3	Hot air module								-	-	-	-
2.6.7.4	Hot bonder											
2.6.7.4.1	Program hot bonder	*							2b	b	-	-
2.6.7.4.2	Weld thermocouples								2b	-	-	-
2.6.7.5	Oven											
2.6.7.5.1	Drying/moisture removal								-	b	-	-
2.6.7.5.2	Curing								-	b	-	-
2.6.7.6	Vacuum system								-	-	-	-
2.6.7.7	Weight measuring scale	*							2b	b	-	-
2.6.8	Use Tubing Equipment											
2.6.8.1	Flaring machines											
2.6.8.1.1	Double								2b	b	-	-
2.6.8.1.2	Single								2b	b	-	-
2.6.8.2	Tube benders											
2.6.8.2.1	Computer Numeric Control (CNC)								-	-	-	-
2.6.8.2.2	Hand								-	-	-	-
2.6.8.2.3	Hydraulic								-	a	-	-
2.6.8.2.4	Production tubing bender								2b	b	-	-
2.7	TECHNICAL PUBLICATIONS											
2.7.1	Use Technical Publications for: TR: AFIND 0-2, TOs 00-5-1, 00-20 series,1-1-8, 1-1-24, 1-1-690, 1-1-691, 1-1-694, 1-1A-1 series, -3, -4,-6, -23 series and OMMS TOs											
2.7.1.1	Maintenance	*							2b	b	-	-
2.7.1.2	Illustrated parts breakdown	*							2b	b	-	-
2.7.1.3	TO improvement procedures								-	b	-	-
2.7.2	Use Electronic Technical Data								-	-	-	-
2.8	AIRCRAFT CONSTRUCTION FAMILIARIZATION TR: Applicable aircraft TOs											
2.8.1	Conventional (Metal)								A	B	-	-
2.8.2	Low Observable (LO) Aircraft								A	B	-	-
2.9	STRUCTURAL INSPECTION TR: TOs 1-1-690, 1-1-691, 1-1-694, and -3, -6 and -23 series TOs											
2.9.1	Perform Inspection for Corrosion and Structural Damage											
2.9.1.1	Surface	*							2b	B	-	-
2.9.1.2	Internal structures	*							2b	B	-	-
2.9.2	Classify Damage											
2.9.2.1	Metal structures	*							2b	B	-	-
2.9.2.2	Conventional composites	*							2b	B	-	-
2.9.2.3	Advanced composites	*							2b	B	-	-
2.9.2.4	Transparent plastics								-	B	-	-
2.9.2.5	Determine repair procedures		*						-	B	-	-
2.10	DOCUMENTATION TR: TO 00-20-1 & -7, 34-1-3, AFMAN 23-110											
2.10.1	Use Forms											

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.10.1.1	781A series	*							2b	b	-	-
2.10.1.2	781H series								-	b	-	-
2.10.1.3	781K series	*							2b	b	-	-
2.10.1.4	AFTO 95								-	a	-	-
2.10.1.5	AFTO 244 series	*							2b	b	-	-
2.10.1.6	AFTO 350	*							2b	b	-	-
2.10.1.7	DD Form 1577 series								-	-	-	-
2.10.2	Process Control Automated Management Systems (PCAMS)								-	-	-	-
2.10.3	Use Integrated Maintenance Data System (IMDS) TR: AFCSM 21 Series; TO 00-20 Series, applicable -6 TO											
2.10.3.1	Open discrepancies								-	-	-	-
2.10.3.2	Close discrepancies								-	-	-	-
2.10.3.3	Access Applicable IMDS Menus and Data Screens								-	-	-	-
2.10.3.4	Use IMDS Supply Interface (SBSS)								-	-	-	-
2.10.3.5	Complete IMDS for Backshop J6AZW2AX5X 0B1A	*							-	-	-	-
2.10.3.6	Complete IMDS for Supervisors J6AZW2AX5X 0S1A		*						-	-	-	-
2.11	CORROSION PREVENTION AND CONTROL TR: AFOSH STDs91-17, TOs 1-1-8, 1-1-24, 1-1-690, 1-1-691, 1-1-694, and applicable -3, -23, or equivalent series TOs and AFIs											
2.11.1	Corrosion Principles											
2.11.1.1	Theory								B	B	-	-
2.11.1.2	Types								B	B	-	-
2.11.1.3	Factors affecting corrosion								B	B	-	-
2.11.2	Corrosion prevention compounds								A	B	-	-
2.11.3	Corrosion Treatment											
2.11.3.1	Apply passivation chemicals	*							2b	b	-	-
2.11.3.2	Remove corrosion (mechanical)	*							2b	b	-	-
2.11.3.3	Remove corrosion (chemical)								-	b	-	-
2.11.4	Protective Coating											
2.11.4.1	Score support equipment coating								-	-	-	-
2.11.4.2	Scoring fundamentals								A	A	-	-
2.11.4.3	Prepare surface	*							2b	b	-	-
2.11.4.4	Prepare coating	*							2b	b	-	-
2.11.4.5	Apply coating	*							2b	b	-	-
2.11.4.6	Apply tapes, boots, and protective films								-	-	-	-
2.11.4.7	Remove tapes, boots, and protective films								-	-	-	-
2.11.5	Remove Coating											
2.11.5.1	Dry abrasive blasting								2b	b	-	-
2.11.5.2	Mechanical sanding	*							2b	b	-	-
2.11.5.3	Chemical removal								-	b	-	-

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.11.6	Structural Sealing											
2.11.6.1	Prepare sealants	*							2b	b	-	-
2.11.6.2	Use sealants	*							2b	b	-	-
2.11.7	Aircraft Markings											
2.11.7.1	Stencils											
2.11.7.1.1	Manufacture								-	b	-	-
2.11.7.1.2	Apply								-	b	-	-
2.11.7.2	Decals											
2.11.7.2.1	Manufacture								-	b	-	-
2.11.7.2.2	Apply								-	b	-	-
2.11.7.2.3	Remove								-	b	-	-
2.12	REPAIR, MODIFY, AND FABRICATE METAL PARTS AND ASSEMBLIES OF AIRFRAME STRUCTURES TR: TOs 1-1A-9, 1-1A-1, 1-1A-8,1-1-691, and applicable structural repair and corrosion control TOs											
2.12.1	Identify metals	*							2b	b	-	-
2.12.2	Characteristics of metals								B	B	-	-
2.12.3	Interpret drawings	*							2b	b	-	-
2.12.4	Interpret blueprints								-	b	-	-
2.12.5	Develop layout for repairs	*							2b	b	-	-
2.12.6	Develop layout for parts	*							2b	b	-	-
2.12.7	Calculate shop mathematics								2b	b	-	-
2.12.8	Cut sheet metal	*							2b	b	-	-
2.12.9	Form Metal Parts											
2.12.9.1	Machine form parts	*							2b	b	-	-
2.12.9.2	Hand form parts								-	b	-	-
2.12.10	Advanced Repair Concepts											
2.12.10.1	Design molds								-	b	-	-
2.12.10.2	Form blocks											
2.12.10.2.1	Design								-	-	-	-
2.12.10.2.2	Manufacture								-	-	-	-
2.12.11	Install And Remove Fasteners											
2.12.11.1	Hole preparation	*							2b	b	-	-
2.12.11.2	ASP (Adjustable Sustained Preload)								-	-	-	-
2.12.11.3	Blind rivets, pull thru								2b	b	-	-
2.12.11.4	Blind rivets, friction lock								-	-	-	-
2.12.11.5	Blind rivets, mechanical lock	*							2b	b	-	-
2.12.11.6	Composi-Lok II								-	a	-	-
2.12.11.7	Eddie bolt								-	b	-	-
2.12.11.8	Hi-lok								2b	b	-	-
2.12.11.9	Hi-shear rivets								-	-	-	-
2.12.11.10	Hi-tique								-	-	-	-
2.12.11.11	Huckrimp								-	-	-	-
2.12.11.12	Jo-bolt											
2.12.11.12.1	Straight shank								-	b	-	-
2.12.11.12.2	Tapered shank								-	-	-	-
2.12.11.13	Lockbolt											

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.12.11.13.1	Pull type								-	-	-	-
2.12.11.13.2	Stump type								-	-	-	-
2.12.11.14	Mechanical lock blind bolt								2b	b	-	-
2.12.11.15	Radial Locks								-	-	-	-
2.12.11.16	SLEEVbolt								-	-	-	-
2.12.11.17	Solid rivets	*							2b	b	-	-
2.12.11.18	Microshave rivets	*							2b	b	-	-
2.12.11.19	Taper lok											
2.12.11.19.1	Fundamentals								-	A	-	-
2.12.11.19.2	Remove								-	-	-	-
2.12.11.19.3	Prepare holes								-	-	-	-
2.12.11.19.4	Install								-	-	-	-
2.12.11.20	Turnlock fasteners											
2.12.11.20.1	Airlock								-	-	-	-
2.12.11.20.2	Camloc								-	-	-	-
2.12.11.21	Nut Plates											
2.12.11.21.1	Riveted	*							2b	b	-	-
2.12.11.21.2	Bonded								-	b	-	-
2.12.11.21.3	Clickbond nut plates	*							-	b	-	-
2.12.11.21.4	Coldworked nut plates								-	b	-	-
2.12.11.22	Aircraft Bolts								-	b	-	-
2.12.11.23	Aircraft Nuts								-	b	-	-
2.12.12	Remove defective screws	*							-	b	-	-
2.12.13	Perform Metal Skin Repairs											
2.12.13.1	Stop drill cracks								a	b	-	-
2.12.13.2	Cold work holes								-	b	-	-
2.12.13.3	Nonflush	*							2b	b	-	-
2.12.13.4	Flush								-	b	-	-
2.12.13.5	Sealed structural	*							2b	b	-	-
2.12.13.6	Combination substructural member								-	b	-	-
2.12.13.7	Reshape/blend damaged areas	*							2b	b	-	-
2.12.13.8	Apply aerodynamic smoothing compound								-	b	-	-
2.12.13.9	Roto-Flap/Shot Peening								-	-	-	-
2.12.14	Trim And Fit Aircraft Skins								-	-	-	-
2.12.15	Install Access Doors											
2.12.15.1	Latches								-	-	-	-
2.12.15.2	Hinges								-	-	-	-
2.12.15.3	Trim and fit access panels								-	-	-	-
2.12.16	Balance control surfaces								-	-	-	-
2.13	AIRCRAFT CABLE ASSEMBLIES TR: TOs 1-1A-8, 32A-1, 33A1-4-6-1, and applicable structural repair TOs											
2.13.1	Inspection								-	b	-	-
2.13.2	Select components								-	b	-	-
2.13.3	Fabricate								-	b	-	-
2.13.4	Pull Test								-	b	-	-
2.14	AIRCRAFT TUBING ASSEMBLIES TR: TO 1-1A-8, and applicable aircraft TOs											

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.14.1	Select Components											
2.14.1.1	Material								2b	b	-	-
2.14.1.2	Hardware								2b	b	-	-
2.14.2	Fabricate Aircraft Tubing Assembly								2b	b	-	-
2.14.3	MS (Military Standard) Flareless Fittings								2b	-	-	-
2.14.4	AN (Army Navy) Flared Fittings								2b	-	-	-
2.14.5	Repair											
2.14.5.1	Cryofit								-	-	-	-
2.14.5.2	Permalite								-	-	-	-
2.14.5.3	Dynatube								a	b	-	-
2.14.5.4	Permaswage								a	b	-	-
2.14.5.5	Ryngloc								a	b	-	-
2.14.5.6	Wiggins								-	-	-	-
2.14.5.7	Visually inspect and evaluate tubing for damage								-	b	-	-
2.15	REPAIR CONVENTIONAL COMPOSITES TR: TO 1-1-24, 1-1-690 and applicable aircraft TOs											
2.15.1	Lightning and anti static wire mesh								-	a	-	-
2.15.2	Overlap repair								-	b	-	-
2.15.3	Perform bonded fiberglass panel honeycomb core repair								1b	b	-	-
2.15.4	Perform metal bonded honeycomb core repair								-	-	-	-
2.15.5	Potted fastener hole repair								-	-	-	-
2.15.6	Scarf repair								1b	b	-	-
2.15.7	Solid laminate								-	b	-	-
2.15.8	Step repair								1b	b	-	-
2.15.9	Transparencies/Structural plastics								-	-	-	-
2.15.10	Trim and fit replacement components								-	b	-	-
2.16	REPAIR ADVANCED COMPOSITE TR: 1-1-690, applicable aircraft TOs											
2.16.1	Identify composite materials	*							A	B	-	-
2.16.2	Characteristics of composites								A	B	-	-
2.16.3	Develop layout for advanced composite repairs	*/R							1b	b	-	-
2.16.4	Drilling and countersinking of advanced composites	*/R							1b	b	-	-
2.16.5	Potted fastener hole repair								-	-	-	-
2.16.6	Trim and fit replacement components								-	b	-	-
2.16.7	Scarf repair	*/R							1b	b	-	-
2.16.8	Step repair								-	-	-	-
2.16.9	Overlap repair								-	-	-	-
2.16.10	Integral blade repair (L Angle)								-	-	-	-
2.16.11	Integral hat repair								-	-	-	-
2.16.12	Cut materials								1b	b	-	-
2.16.13	Drying								1b	b	-	-
2.16.14	Ply orientation								2b	b	-	-

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.16.15	Vacuum bagging	*							2b	b	-	-
2.17	BONDED REPAIR PREPARATION TR: TOs 1-1-690, 1-1A-1											
2.17.1	Prepare Metal Surface											
2.17.1.1	Phosphoric acid anodize								-	-	-	-
2.17.1.2	Sol Gel								-	-	-	-
2.17.1.3	Grit blast saline								-	-	-	-
2.17.2	Prepare liquid matrix								1b	B	-	-
2.17.3	Storage and Handling								1b	B	-	-
2.17.4	Use of adhesives, foams, films and tapes								1b	B	-	-
2.17.5	Use prepreg materials								1b	B	-	-
2.18	GENERAL MAINTENANCE/ PRODUCTION TEAM TASKS TR: Applicable aircraft TOs											
2.18.1	Aircraft safe for maintenance	*							2b	-	-	-
2.18.2	Technical order familiarization								-	-	-	-
2.18.3	Flightline/Safety/Precautions/ Security								-	-	-	-
2.18.4	Introduction to aircraft/airframe familiarization/egress								-	-	-	-
2.18.5	Inspect/Use ground maintenance stands								-	-	-	-
2.18.6	Dropped Object Prevention Program (DOPP)								-	-	-	-
2.18.7	Defensive System (DS) Familiarization (On Applicable Aircraft)								-	-	-	-
2.18.8	Statically Ground Aircraft								-	-	-	-
2.18.9	Inspect/Operate Portable External Electrical Power Unit								-	-	-	-
2.18.10	Apply/Disconnect External Electrical Power								-	-	-	-
2.19	TOW AIRCRAFT TR: Applicable aircraft TOs											
2.19.1	Tow team member								-	-	-	-
2.19.2	Brake operator								-	-	-	-
2.20	PERFORM REFUEL/DEFUEL TEAM MEMBER DUTIES TR: Applicable aircraft TOs											
2.20.1	Fireguard								-	-	-	-
2.20.2	Panel operator								-	-	-	-
2.20.3	Open and close engine cowling								-	-	-	-
2.20.4	Remove/Install aircraft maintenance access panels								-	-	-	-
2.20.5	Use aircraft interphone system								-	-	-	-
2.20.6	Perform aircraft marshaling procedures								-	-	-	-
2.21	LOW OBSERVABLE (LO) FAMILIARIZATION TR: 1-1-694 and applicable aircraft TOs											
2.21.1	LO definition								A	A	-	-
2.21.2	LO signature sources								A	A	-	-
2.21.3	Radar definition								A	A	-	-

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.21.4	Radar cross sections								A	A	-	-
2.21.5	Signature reduction techniques								A	B	-	-
2.21.6	Inspection principles								A	B	-	-
2.21.7	Radar Absorbing Structure (RAS)								A	A	-	-
2.22	LOW OBSERVABLE MATERIALS IDENTIFICATION TR: 1-1-694 and applicable aircraft TOs											
2.22.1	Sealants								A	A	-	-
2.22.2	Radar Absorbing Material (RAM)								A	A	-	-
2.22.3	Fairing								A	A	-	-
2.22.4	R-Card								A	A	-	-
2.22.5	RAS								A	A	-	-
2.22.6	Filler								A	A	-	-
2.22.7	Conductive								A	A	-	-
2.22.8	Non-conductive								A	A	-	-
2.22.9	Infrared								A	A	-	-
2.23	WEAPON SYSTEM PROGRAM SECURITY											
2.23.1	Communications Security (COMSEC) TR: DOD 5200.1-R; AFI 21-109; AFI 31-401; AFP 100-46;AF Security Classification Guide								-	-	-	-
2.23.2	Security Procedures For Special Access Programs								-	-	-	-
2.24	IDENTIFY LO DEFECTS TR: 1-1-694 and applicable aircraft TOs											
2.24.1	Sealants								a	b	-	-
2.24.2	RAM											
2.24.2.1	Spray								a	b	-	-
2.24.2.2	Sheet								a	b	-	-
2.24.3	Fairing								a	b	-	-
2.24.4	R-Card								a	b	-	-
2.24.5	Filler								a	b	-	-
2.24.6	Conductive								a	b	-	-
2.24.7	Non-conductive								a	b	-	-
2.24.8	Infrared								a	b	-	-
2.24.9	Edge Moldings								a	b	-	-
2.24.10	Top Coat								a	b	-	-
2.25	REMOVE COATINGS TR: 1-1-694 and applicable aircraft TOs											
2.25.1	Race tracking	*							1b	b	-	-
2.25.2	Planform alignment	*							1b	b	-	-
2.25.3	RAM removal											
2.25.3.1	Manual	*							1b	b	-	-
2.25.3.2	Pneumatic								-	a	-	-
2.25.4	Fillers											
2.25.4.1	Gaps	*							1b	b	-	-
2.25.4.2	Fasteners	*							1b	b	-	-
2.26	COATING APPLICATION TR: 1-1-694 and applicable aircraft TOs											

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.26.1	Layout											
2.26.1.1	Use templates								1b	b	-	-
2.26.1.2	Use straight edge for cutting RAM	*							-	b	-	-
2.26.1.3	Use protractor for proper repair angles								-	b	-	-
2.26.1.4	Conduct planform alignment	*							1b	b	-	-
2.26.2	Prepare Surfaces											
2.26.2.1	Non-metallic	*							1b	b	-	-
2.26.2.2	Metallic	*							-	b	-	-
2.26.3	Apply Material											
2.26.3.1	Primer	*							1b	b	-	-
2.26.3.2	Conductive	*							1b	b	-	-
2.26.3.3	RAM											
2.26.3.3.1	Adhesive	*							1b	b	-	-
2.26.3.3.2	Sheet	*							1b	b	-	-
2.26.3.3.3	Spray								-	-	-	-
2.26.3.3.4	Edge mold	*							-	b	-	-
2.26.3.4.4	Paste								1b	b	-	-
2.26.3.4	Fillers											
2.26.3.4.1	Gaps	*							1b	b	-	-
2.26.3.4.2	Fastener	*							1b	b	-	-
2.26.3.4.3	Fairing materials	*							1b	b	-	-
2.26.3.5	Cure materials											
2.26.3.5.1	Contact	*							1b	b	-	-
2.26.3.5.2	Noncontact	*							1b	b	-	-
2.26.3.6	Apply topcoat	*							1b	b	-	-
2.27	CONDUCT PROCESS VERIFICATION TR: 1-1-694 and applicable aircraft TOs											
2.27.1	Visual		*						1b	b	-	-
2.27.2	Step		*						1b	b	-	-
2.27.3	Gap		*						1b	b	-	-
2.27.4	Aerodynamic Smoothness		*						1b	b	-	-
2.28	USE SUPPORT EQUIPMENT TR: Owner's Manual											
2.28.1	Operate RAM Disposal Equipment								-	-	-	-
2.28.2	Blade Seal Deflection Tool								-	-	-	-
2.29	GAP FILLING COMPOUNDS TR: 1-1-694 and applicable aircraft TOs											
2.29.1	Removal procedures	*							1b	b	-	-
2.29.2	Surface preparation	*							1b	b	-	-
2.29.3	Application	*							1b	b	-	-
2.29.4	Skiving								1b	b	-	-
2.29.5	Smoothness verification	*							1b	b	-	-
2.30	FAIRING COMPOUNDS TR: 1-1-694 and applicable aircraft TOs											
2.30.1	Use fairing compounds	*							1b	b	-	-
2.30.2	Removal procedures	*							1b	b	-	-
2.30.3	Surface preparation	*							1b	b	-	-
2.30.4	Apply fairing compounds	*							1b	b	-	-
2.30.5	Verify smoothness	*							1b	b	-	-

		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
1. Tasks, Knowledge And Technical References		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
ATTACHMENT 3 – B-2 NOTE 1: Users are responsible for annotating training references to identify current references pending STS revision. NOTE 2: Items in column 2A/2B marked with an asterisk (*) identify core tasks. Tasks identified by */R as core tasks are optional for ANG and AFRC when training capability is not available, but must be accomplished when capability becomes available.												
3.1	GAP FILLING COMPOUNDS TR: TO 1B-2A-2-51GS											
3.1.1	Use conductive caulk (MS-441)	*							-	-	-	-
3.1.2	Use silicone (MS-468)	*							-	-	-	-
3.1.3	Use caulk (482/404)	*							-	-	-	-
3.1.4	Evaluate damage	*							-	-	-	-
3.1.5	Removal procedures	*							-	-	-	-
3.1.6	Prepare surface	*							-	-	-	-
3.1.6.1	Apply	*							-	-	-	-
3.1.6.2	Skiving	*							-	-	-	-
3.1.6.3	Verify smoothness	*							-	-	-	-
3.2	TAPE APPLICATION TR: TO 1B-2A-51GS											
3.2.1	Evaluate damage	*							-	-	-	-
3.2.2	Remove tape	*							-	-	-	-
3.2.3	Prepare surface	*							-	-	-	-
3.2.4	Apply adhesive	*							-	-	-	-
3.2.5	Align tape	*							-	-	-	-
3.2.6	Apply PSA tape	*							-	-	-	-
3.2.7	Apply permanent tape	*							-	-	-	-
3.2.8	Cure tape	*							-	-	-	-
3.2.9	Apply thin tape	*							-	-	-	-
3.2.10	Remove thin tape	*							-	-	-	-
3.3	SPECIALIZED COATING TR: 1B-2A-2-14GS/1-1-8											
3.3.1	Evaluate damage								-	-	-	-
3.3.2	Removal procedures								-	-	-	-
3.3.3	Primer application								-	-	-	-
3.3.4	Roll masking	*							-	-	-	-
3.3.5	Conductivity Coatings											
3.3.5.1	Conductivity reading requirements	*/R							-	-	-	-
3.3.5.2	Application procedures	*							-	-	-	-
3.3.5.3	Smoothness requirements	*							-	-	-	-
3.3.6	Anti Static Coating											
3.3.6.1	Apply								-	-	-	-
3.3.6.2	Smoothness requirements								-	-	-	-
3.3.7	Rain Erosion Coating											
3.3.7.1	Apply								-	-	-	-
3.3.7.2	Smoothness requirements								-	-	-	-
3.3.8	High Temperature Coatings											
3.3.8.1	Application procedures								-	-	-	-
3.3.8.2	Smoothness requirements								-	-	-	-

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
3.4	RADAR ABSORBING STRUCTURE (RAS) TR: 1B-2A-2-51GS/1-1-690											
3.4.1	Evaluate damage	*/R							-	-	-	-
3.4.2	Remove damage	*/R							-	-	-	-
3.4.3	Repair lay-up	*/R							-	-	-	-
3.4.4	Inspect repair		*/R						-	-	-	-
3.5	HOT TRAILING EDGE (HTE) TILE TR: 1B-2A-2-57GS											
3.5.1	Evaluate tile damage		*/R						-	-	-	-
3.5.2	Remove								-	-	-	-
3.5.3	Apply adhesive								-	-	-	-
3.5.4	Install								-	-	-	-
3.5.5	Cure								-	-	-	-
3.5.6	Repair HTE using tile putty	*/R							-	-	-	-
3.5.7	Ceramic matrix compound								-	-	-	-
3.5.8	Remove and replace ceramic matrix compound								-	-	-	-
3.6	TAIL PIPE REPAIR TECHNIQUES TR: 16W14-7-2, 1B-2A-2-14GS											
3.6.1	Evaluate damage								-	-	-	-
3.6.2	Prepare material								-	-	-	-
3.6.3	Apply material								-	-	-	-
3.6.4	Verify repair		*/R						-	-	-	-
3.7	USE SUPPORT EQUIPMENT TR: Owner's Manual											
3.7.1	AOD jar mill								-	-	-	-
3.7.2	Foam gun	*							-	-	-	-
3.7.3	Gloss meter								-	-	-	-
3.7.4	Loristta meter								-	-	-	-
3.7.5	Magnetic stirrer								-	-	-	-
3.7.6	MOEN heater								-	-	-	-
3.7.7	Multimeter								-	-	-	-
3.7.8	Ohm meter								-	-	-	-
3.7.9	Paint probe – identify								-	-	-	-
3.7.10	Positive pressure tool								-	-	-	-
3.7.11	Radial lock gun								-	-	-	-
3.7.12	Roughness gauge	*							-	-	-	-
3.7.13	Tape cutting machine	*							-	-	-	-
3.7.14	Thermal Generator (PCHAS)								-	-	-	-
3.7.15	Tile sanding fixture								-	-	-	-
3.7.16	Vacuum heat table								-	-	-	-
3.8	Copper mesh familiarization TR: 1-1-694 and applicable aircraft TOs								-	-	-	-
3.9	Stub seal removal/replacement TR: 1-1-694 and applicable aircraft TOs								-	-	-	-
3.10	Blade seal replacement TR: 1-1-694 and applicable aircraft TOs								-	-	-	-
3.11	Lightning strike patch familiarization TR: 1-1-694 and applicable aircraft TOs		*						-	-	-	-

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
3.12	Prepare Engineer Support Request (ESR) TR: 1-1-694 and applicable aircraft TOs		*/R						-	-	-	-
3.13	Perform LO coating assessment TR: 1-1-694 and applicable aircraft TOs	*							-	-	-	-
3.14	KAPTON APPLICATION TR: 1B-2A-2-51GS											
3.14.1	Evaluate damage								-	-	-	-
3.14.2	Removal procedures								-	-	-	-
3.14.3	Surface preparation								-	-	-	-
3.14.4	Application procedures								-	-	-	-
3.14.5	Alignment procedures								-	-	-	-
3.15	ADVANCED HIGH FREQUENCY MATERIAL (AHFM) TR: 1-1-694 and applicable aircraft TOs											
3.15.1	Evaluate damage	*							-	-	-	-
3.15.2	Removal procedures	*							-	-	-	-
3.15.3	Surface preparation	*							-	-	-	-
3.15.4	Application procedures	*							-	-	-	-
3.15.5	Alignment procedures	*							-	-	-	-
3.16	IRON FILLED ELASTOMER TR: 1B-2A-2-51GS											
3.16.1	Evaluate damage	*							-	-	-	-
3.16.2	Removal procedures								-	-	-	-
3.16.3	Surface preparation								-	-	-	-
3.16.4	Application procedures								-	-	-	-
3.16.5	Alignment procedures								-	-	-	-

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
ATTACHMENT 4 – F-22 NOTE 1: Users are responsible for annotating training references to identify current references pending STS revision. NOTE 2: Items in column 2A/2B marked with an asterisk (*) identify core tasks. Tasks identified by */R as core tasks are optional for ANG and AFRC when training capability is not available, but must be accomplished when capability becomes available.												
4.1	LO DESIGN FEATURES TR: 1-1-694 and applicable aircraft TOs											
4.1.1	Fixed Skins, Panels, Doors											
4.1.1.1	Filled gap								-	-	-	-
4.1.1.2	J-Seal								-	-	-	-
4.1.1.3	Form-In-Place seal								-	-	-	-
4.1.2	Radar Absorbing Structure (RAS)											
4.1.2.1	Integrated Fore Body (IFB)								-	-	-	-
4.1.2.2	Flight controls								-	-	-	-
4.1.2.3	Edges								-	-	-	-
4.2	FILLERS TR: 1-1-694 and applicable aircraft TOs											
4.2.1	Low Temperature											
4.2.1.1	Evaluate damage	*							-	-	-	-
4.2.1.2	Remove	*							-	-	-	-
4.2.1.3	Mask	*							-	-	-	-
4.2.1.4	Apply	*							-	-	-	-
4.2.1.5	Smooth surface	*							-	-	-	-
4.2.1.6	Cure	*							-	-	-	-
4.2.2	High Temperature											
4.2.2.1	Evaluate damage								-	-	-	-
4.2.2.2	Removal procedures								-	-	-	-
4.2.2.3	Masking procedures								-	-	-	-
4.2.2.4	Application procedures								-	-	-	-
4.2.2.5	Surface smoothness requirements								-	-	-	-
4.2.3	Moldable Plastic Shim (EA-9377)											
4.2.3.1	Apply	*							-	-	-	-
4.2.3.2	Smooth surface	*							-	-	-	-
4.2.3.3	Cure	*							-	-	-	-
4.2.4	Blade Seal											
4.2.4.1	Evaluate damage								-	-	-	-
4.2.4.2	Removal procedures								-	-	-	-
4.2.4.3	Install								-	-	-	-
4.3	RADAR ABSORBING MATERIALS (RAM) TR: 1-1-694 and applicable aircraft TOs											
4.3.1	RAM Sheet											
4.3.1.1	Evaluate damage								-	-	-	-
4.3.1.2	Remove								-	-	-	-
4.3.1.3	Layout and cut								-	-	-	-
4.3.1.4	Bond								-	-	-	-
4.3.1.5	Cure								-	-	-	-
4.3.2	RAM, Spray											

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
4.3.2.1	Application procedures								-	-	-	-
4.3.2.2	Curing procedures								-	-	-	-
4.4	PASTES TR: 1-1-694 and applicable aircraft TOs											
4.4.1	5PTMRL07, Type B, Form 2											
4.4.1.1	Evaluate limitations	*							-	-	-	-
4.4.1.2	Apply	*							-	-	-	-
4.4.1.3	Sand	*							-	-	-	-
4.4.1.4	Cure	*							-	-	-	-
4.4.2	5PTMRL07, Type C, Form 2											
4.4.2.1	Application limitations								-	-	-	-
4.4.2.2	Application procedures								-	-	-	-
4.4.2.3	Sanding procedures								-	-	-	-
4.4.2.4	Curing procedures								-	-	-	-
4.4.3	5PTMRL07, Type D, Form 2											
4.4.3.1	Application limitations								-	-	-	-
4.4.3.2	Application procedures								-	-	-	-
4.4.3.3	Sanding procedures								-	-	-	-
4.4.3.4	Curing procedures								-	-	-	-
4.4.4	5PTMRL07, Type G, Form 2											
4.4.4.1	Application limitations	*							-	-	-	-
4.4.4.2	Application procedures	*							-	-	-	-
4.4.4.3	Sanding procedures	*							-	-	-	-
4.4.4.4	Curing procedures	*							-	-	-	-
4.4.5	5PTMRL21, Type I, Form 2, Dielectric Paste											
4.4.5.1	Application limitations								-	-	-	-
4.4.5.2	Application procedures								-	-	-	-
4.4.5.3	Sanding procedures								-	-	-	-
4.4.5.4	Curing procedures								-	-	-	-
4.4.5.5	Outer Mold Line (OML) coating											
4.4.5.5.1	Locate panel perimeter location/zip cord	*							-	-	-	-
4.5	PRIMERS TR: 1-1-694 and applicable aircraft TOs											
4.5.1	High Temperature Primer (5PTMRL23)											
4.5.1.1	Application procedures								-	-	-	-
4.5.1.2	Curing procedures								-	-	-	-
4.5.2	Waterborne Epoxy Primer (5PTMRT03)											
4.5.2.1	Application procedures								-	-	-	-
4.5.2.2	Curing procedures								-	-	-	-
4.5.3	Non-Chromated Epoxy Primer											
4.5.3.1	Apply	*							-	-	-	-
4.5.3.2	Cure	*							-	-	-	-
4.5.4	Flexible Polyurethane Primer											
4.5.4.1	Apply	*							-	-	-	-
4.5.4.2	Cure	*							-	-	-	-
4.5.5	Silicone Primers (SS-4120, SS-4155, SS-4179)											
4.5.5.1	Application procedures								-	-	-	-

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
4.5.5.2	Curing procedures								-	-	-	-
4.5.6	Silicone Adhesive Primer (DC 1200)											
4.5.6.1	Application procedures								-	-	-	-
4.5.6.2	Curing procedures								-	-	-	-
4.5.7	Thermoplastic Primer (5PTMRT10)											
4.5.7.1	Application procedures								-	-	-	-
4.5.7.2	Curing procedures								-	-	-	-
4.6	CONDUCTIVE COATING (5PTMRL04, Type I) TR: 1-1-694 and applicable aircraft TOs											
4.6.1	Mask	*							-	-	-	-
4.6.2	Application procedures	*							-	-	-	-
4.6.3	Curing procedures	*							-	-	-	-
4.7	TOPCOATS TR: 1-1-694 and applicable aircraft TOs											
4.7.1	IR Polyurethane Topcoat (5PTMRT01)											
4.7.1.1	Application procedures	*							-	-	-	-
4.7.1.2	Curing procedures	*							-	-	-	-
4.7.2	Anti-Static Topcoat (5PTMRL17, Type I, II, III)											
4.7.2.1	Application procedures								-	-	-	-
4.7.2.2	Curing process								-	-	-	-
4.7.3	High Temperature Topcoat (5PTMRL24)											
4.7.3.1	Application procedures	*							-	-	-	-
4.7.3.2	Curing procedures	*							-	-	-	-
4.7.4	Teflon Filled Topcoat (5PTMRT08)											
4.7.4.1	Application procedures	*							-	-	-	-
4.7.4.2	Curing procedures	*							-	-	-	-
4.7.5	Rain Erosion Topcoats (5PTMRL02, Type 1 and Type 2 materials)											
4.7.5.1	Application procedures								-	-	-	-
4.7.5.2	Curing procedures								-	-	-	-
4.7.6	Exterior Canopy Coating (5PTMRL35)											
4.7.6.1	Application procedures								-	-	-	-
4.7.6.2	Curing procedures								-	-	-	-
4.8	CANOPY TR: 1-1-694 and applicable aircraft TOs											
4.8.1	Evaluate damage	*							-	-	-	-
4.8.2	Film repair	*							-	-	-	-
4.8.3	FX-345 canopy repair	*							-	-	-	-
4.8.4	V-612 Silicone Canopy Adhesive											
4.8.4.1	Application procedures	*							-	-	-	-
4.8.4.2	Curing procedures	*							-	-	-	-
4.9	TURBO SPRAY COATING EQUIPMENT TR: 1-1-694 and applicable aircraft TOs											
4.9.1	Operation								-	-	-	-
4.9.2	Maintenance								-	-	-	-

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
4.10.	Integrated Maintenance Information System (IMIS) TR: User's Guide											
4.10.1	OPERATE SIGNATURE ASSESSMENT SYSTEM (SAS)											
4.10.1.1	Evaluate/Input Outer mold line damages								-	-	-	-
4.10.1.2	Utilize Prioritized Unrepaired Damage Screen to Select/Create Repair Job Control Number								-	-	-	-
4.10.1.3	Navigate Wind Swept Surface Structural History Screen								-	-	-	-
4.10.3	PORTABLE MAINTENANCE AID (PMA)											
4.10.3.1	Operate	*							-	-	-	-
4.10.3.2	Maintain	*							-	-	-	-
4.11	BOOT/WASHER CUTTER KIT TR: 1-1-694 and applicable aircraft TOs											
4.11.1	Operate	*							-	-	-	-
4.11.2	Maintain	*							-	-	-	-
4.12	Use Integrated Maintenance Information System (IMIS) TR: User's Guide											
4.12.1	Operation								-	-	-	-
4.12.2	Security Procedures								-	-	-	-
4.12.3	Maintenance Support Work Center											

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
ATTACHMENT 5 – F-35 NOTE 1: Users are responsible for annotating training references to identify current references pending STS revision. NOTE 2: Items in column 2A/2B marked with an asterisk (*) identify core tasks. Tasks identified by */R as core tasks are optional for ANG and AFRC when training capability is not available, but must be accomplished when capability becomes available.												
5.1	LO DESIGN FEATURES TR: 1-1-694 and applicable aircraft TOs											
5.1.1	Fixed Skins, Panels, Doors								-	-	-	-
5.1.2	Filler Gap								-	-	-	-
5.1.3	J-Seal								-	-	-	-
5.1.4	Form-In-Place Seal								-	-	-	-
5.1.5	Radar Absorbing Structure (RAS)								-	-	-	-
5.1.6	Integrated Fore Body (IFB)								-	-	-	-
5.1.7	Flight controls								-	-	-	-
5.1.8	Edges								-	-	-	-
5.2	GAP FILLERS TR: 1-1-694 and applicable aircraft TOs											
5.2.1	Damage evaluation								-	-	-	-
5.2.2	Removal procedures								-	-	-	-
5.2.3	Masking procedures								-	-	-	-
5.2.4	Application procedures								-	-	-	-
5.2.5	Surface smoothness requirements								-	-	-	-
5.2.6	Curing procedures								-	-	-	-
5.2.7	Moldable Plastic Shim(EA-9377)								-	-	-	-
5.2.7.1	Application procedures								-	-	-	-
5.2.7.2	Surface smoothness requirements								-	-	-	-
5.2.7.3	Cure procedures								-	-	-	-
5.3	FILLED ELASTOMERIC SHEET (Moderate Temp) TR: 1-1-694 and applicable aircraft TOs											
5.3.1	Damage evaluation								-	-	-	-
5.3.2	Removal procedures								-	-	-	-
5.3.3	Layout and cutting procedures								-	-	-	-
5.3.4	Application/Bonding procedures								-	-	-	-
5.3.5	Curing procedures								-	-	-	-
5.3.6	Filled Elastomeric PSATape											
5.3.6.1	Removal								-	-	-	-
5.3.6.2	Application								-	-	-	-
5.4	PASTES TR: 1-1-694 and applicable aircraft TOs											
5.4.1	Application limitations								-	-	-	-
5.4.2	Application procedures								-	-	-	-
5.4.3	Sanding procedures								-	-	-	-
5.4.4	Curing procedures								-	-	-	-
5.5	PRIMERS TR: 1-1-694 and applicable aircraft TOs											
5.5.1	High Temperature Primer											
5.5.1.1	Application procedures								-	-	-	-
5.5.1.2	Curing procedures								-	-	-	-
5.5.2	Waterborne Epoxy Primer											

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
5.5.2.1	Application procedures								-	-	-	-
5.5.2.2	Curing procedures								-	-	-	-
5.5.3	Non-Chromated Epoxy Primer											
5.5.3.1	Application procedures								-	-	-	-
5.5.3.2	Curing procedures								-	-	-	-
5.5.4	Flexible Polyurethane Primer											
5.5.4.1	Application procedures								-	-	-	-
5.5.4.2	Curing procedures								-	-	-	-
5.5.5	Silicone Primers											
5.5.5.1	Application procedures								-	-	-	-
5.5.5.2	Curing procedures								-	-	-	-
5.5.6	Silicone Adhesive Primer											
5.5.6.1	Application procedures								-	-	-	-
5.5.6.2	Curing procedures								-	-	-	-
5.6	FIBERMAT TR: 1-1-694 and applicable aircraft TOs											
5.6.1	Removal								-	-	-	-
5.6.2	Application procedures								-	-	-	-
5.6.3	Curing procedures								-	-	-	-
5.6.4	Paste Repair procedures								-	-	-	-
5.7	TOPCOATS TR: 1-1-694 and applicable aircraft TOs											
5.7.1	Anti-Static Topcoat											
5.7.1.1	Application procedures								-	-	-	-
5.7.1.2	Curing process								-	-	-	-
5.7.2	High Temperature Topcoat											
5.7.2.1	Application procedures								-	-	-	-
5.7.2.2	Curing procedures								-	-	-	-
5.7.3	Teflon Filled Topcoat											
5.7.3.1	Application procedures								-	-	-	-
5.7.3.2	Curing procedures								-	-	-	-
5.7.4	Rain Erosion Topcoats											
5.7.4.1	Application procedures								-	-	-	-
5.7.4.2	Curing procedures								-	-	-	-
5.7.5	Exterior Canopy Coating											
5.7.5.1	Application procedures								-	-	-	-
5.7.5.2	Curing procedures								-	-	-	-
5.7.6	Filled Elastomeric Top Coat								-	-	-	-
5.7.6.1	Roll/Brush application procedure								-	-	-	-
5.7.6.3	Curing procedures								-	-	-	-
5.8	CANOPY TR: 1-1-694 and applicable aircraft TOs											
5.8.1	Inspection/Damage evaluation								-	-	-	-
5.8.2	Canopy Repair Material											
5.8.2.1	Application limitations								-	-	-	-
5.8.2.2	Application procedures								-	-	-	-
5.8.2.3	Curing procedures								-	-	-	-
5.8.3	Silicone Canopy Adhesive											
5.8.3.1	Application procedures								-	-	-	-
5.8.3.2	Curing procedures								-	-	-	-

PROFICIENCY CODE KEY

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Notes)			
		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
5.9	BRUSH/ROLL COATING EQUIPMENT TR: 1-1-694 and applicable aircraft TOs								-	-	-	-
5.10	OPERATE LOW OBSERVABLE HEALTH ASSESSMENT SYSTEM (LOHAS) TR: 1-1-694 and applicable aircraft TOs											
5.10.1	Evaluate and Input Outer Mold line Damages								-	-	-	-
5.10.2	Utilize Prioritized Unrepaired Damage Screen to Select and Create Repair Job Control Number								-	-	-	-
5.10.3	Navigate LOHAS screens								-	-	-	-
5.11	PORTABLE MAINTENANCE AID (PMA) TR: 1-1-694 and applicable aircraft TOs											
5.11.1	Operation								-	-	-	-
5.11.2	Maintenance								-	-	-	-
5.12	FASTENER FILLER TR: 1-1-694 and applicable aircraft TOs											
5.12.1	Permanent fastener paste								-	-	-	-
5.12.2	Temporary fastener Hot Melt								-	-	-	-
5.13	CRINKER TOOL KIT PROCEDURES TR: 1-1-694 and applicable aircraft TOs								-	-	-	-
5.14	ELASTOMERIC SEAL TR: 1-1-694 and applicable aircraft TOs											
5.14.1	Use Low Temp								-	-	-	-
5.14.2	Use Mod Temp								-	-	-	-
5.14.3	Perform damage evaluation								-	-	-	-
5.14.4	Removal procedures								-	-	-	-
5.14.5	Application/Bonding procedures								-	-	-	-
5.14.6	Curing procedures								-	-	-	-

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1. Tasks		4. Proficiency Codes Used To Indicate Training/Information Provided			
Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		(1) Crse	(1) CDC	(1) Crse	(2) CDC
NOTE 1: Columns 2 and 3 are deleted from this STS because all items are SUBJECT KNOWLEDGE LEVEL only and require no certification.					
NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision.					
NOTE 3: This attachment is to be used in conjunction with other attachments in applicable CFETPs.					
NOTE 4: Personnel must complete CDC requirements on all MDSs/attachments.					
NOTE 5: This attachment is to be used as a correlation document for the 2AX7X 7-level Aerospace Maintenance Craftsman CDCs.					
AA.1.	MAINTENANCE PHILOSOPHY AND POLICY				
AA.1.1.	Aircraft and Equipment Readiness TR: AFI 21-101 and Repair Enterprise 21 Fact Sheet (https://acc.dau.mil/CommunityBrowser.aspx?id=32781				A
AA.1.2.	Maintenance Concept TR: AFI 21-101 and AFI 21-129				A
AA.1.3.	Reliability and Maintainability (R&M) TR: AFI 21-101, AFI 21-118 and TO 00-35D-54.				A
AA.1.4.	Operating Instructions (OI) TR: AFI 21-101 and AFI 33-360				A
AA.1.5.	Support Agreements (SA) TR: AFI 21-101 and AFI 25-201				A
AA.1.6.	Modification and Configuration Management TR: AFI 21-101				A
AA.1.7.	Maintenance Information Systems (MIS) TR: AFI 21-101, AFI 21-116, AFCSM 21-556 volume 2, and TO 00-20-2				B
AA.1.8.	Maintenance Performance Indicator Metrics and Health of the Fleet TR: AFI 21-101 and AFI 21-103				B
AA.1.9.	Personnel Utilization TR: AFI 21-101				A
AA.1.10.	Maintenance Repair Priorities TR: AFI 21-101				A
AA.1.11.	Minimum Essential System Listing (MESL) TR: AFI 21-101 and AFI 21-103				A
AA.1.12.	Status of Resources and Training System (SORTS), and AEF Reporting Tool (ART) TR: AFI 10-201, AFI 10-244 and https://aefcenter.afpc.randolph.af.mil/				A
AA.1.13.	Historical Aircraft and Equipment Records TR: AFI 21-101 and T.O. 00-20-1				A
AA.1.14.	Maintenance Scheduling Effectiveness TR: AFI 21-101				A
AA.2.	MAINTENANCE ORGANIZATION KEY LEADER RESPONSIBILITIES				
AA.2.1.	Wing Commander (WG/CC) TR: AFI 21-101 and AFI 38-101				A
AA.2.2.	Wing Vice Commander (WG/CV) TR: AFI 21-101 and AFI 38-101				A
AA.2.3.	Maintenance Group Commander (MXG/CC) TR: AFI 21-101 and AFI 38-101				A
AA.2.4.	Maintenance Group Deputy Commander (MXG/CD) TR: AFI 21-101				A

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1. Tasks		4. Proficiency Codes Used To Indicate Training/Information Provided			
Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		(1) Crse	(1) CDC	(1) Crse	(2) CDC
AA.2.5.	MXG Superintendent (SUPT) TR: AFI 21-101				A
AA.2.6.	Squadron Commander (SQ/CC) Responsibilities TR: AFI 21-101				A
AA.2.7.	Operations Officer and Maintenance Superintendent (MX SUPT) Responsibilities TR: AFI 21-101				A
AA.2.8.	Flight Commander/Flight Chief TR: AFI 21-101				A
AA.2.9.	AMU OIC/Superintendent (SUPT) TR: AFI 21-101				A
AA.2.10.	Section NCOIC TR: AFI 21-101				A
AA.2.11.	Production Superintendent (Pro Super) TR: AFI 21-101				A
AA.2.12.	Expediter TR: AFI 21-101				B
AA.3.	FUNCTIONS OF MAINTENANCE OPERATIONS SQUADRON (MOS) TR: AFI 21-101 and AFI 38-101				
AA.3.1.	Maintenance Operations Flight (MOF) TR: AFI 21-101				A
AA.3.2.	Maintenance Training Flight (MTF) TR: AFI 21-101 and AFI 36-2232				A
AA.3.3.	Programs and Resources Flight TR: AFI 21-101				A
AA.3.4.	Quality Assurance (QA) Flight TR: AFI 21-101				A
AA.4.	FUNCTIONS OF AIRCRAFT/HELICOPTER MAINTENANCE SQUADRON (AMXS/HMXS) TR: AFI 21-101 and AFI 38-101				
AA.4.1.	Aircraft Maintenance Unit (AMU) TR: AFI 21-101				A
AA.4.2.	Aircrew and Maintenance Debrief Section TR: AFI 21-101				A
AA.4.3.	Aircraft Section TR: AFI 21-101				A
AA.4.4.	Specialist Section TR: AFI 21-101				A
AA.4.5.	Weapons Section TR: AFI 21-101				A
AA.4.6.	Plans, Scheduling and Documentation Section (PS&D) TR: AFI 21-101				A
AA.4.7.	Support Section TR: AFI 21-101				A
AA.5.	FUNCTIONS OF MAINTENANCE SQUADRON (MXS) TR: AFI 21-101 and AFI 38-101				
AA.5.1.	Accessories Flight TR: AFI 21-101				A
AA.5.2.	Aerospace Ground Equipment (AGE) Flight TR: AFI 21-101				A
AA.5.3.	Armament Flight TR: AFI 21-101				A

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1. Tasks		4. Proficiency Codes Used To Indicate Training/Information Provided			
Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		(1) Crse	(1) CDC	(1) Crse	(2) CDC
AA.5.4.	Avionics Flight TR: AFI 21-101				A
AA.5.5.	Fabrication Flight TR: AFI 21-101				A
AA.5.6.	Maintenance Flight TR: AFI 21-101				A
AA.5.7.	Munitions Flight TR: AFI 21-101 and AFI 21-201				A
AA.5.8.	Propulsion Flight TR: AFI 21-101				A
AA.5.9.	Test, Measurement, and Diagnostic Equipment (TMDE) Flight TR: AFI 21-101				A
AA.6.	AIR FORCE MATERIEL COMMAND RESPONSIBILITIES				
AA.6.1.	Air Logistics Centers (ALC) TR: AFMCMD (Mission Directives) 406, 407 and 410. Located at: https://www.afmc-mil.wpafb.af.mil/pdl/afmc/md.htm , OO-ALC Brochure located at: http://www.hill.af.mil/main/index.html , WR-ALC: http://www.robins.af.mil/units/402mw.asp and OC-ALC: http://www.tinker.af.mil/units/				A
AA.6.2.	Air Force Flight Test Center TR: AFMCMD 404 located at https://www.afmc-mil.wpafb.af.mil/pdl/afmc/md.htm and Flight Test Center Fact Sheet locate at: http://www.edwards.af.mil/library/factsheets/factsheet_print.asp?fsID=6573&page=1				A
AA.6.3.	Aerospace Maintenance and Regeneration Center (AMARC) TR: AFMCMD 415 located at: https://www.afmc-mil.wpafb.af.mil/pdl/afmc/md.htm and http://www.dm.af.mil/units/amarc.asp				A
AA.7.	MAINTENANCE TRAINING				
AA.7.1	Types of Training TR: AFI 36-2232 and the ETCA site located at: https://etca.randolph.af.mil/				A
AA.7.2.	Training Documentation TR: AFI 36-2232, AFI 21-101, and AFI 36-2201 (Vol. 1-6)				A
AA.7.3.	Special Certification Rosters TR: AFI 21-101				A
AA.7.4.	Maintenance Qualification Program (MQP) TR: AFI 36-2232, AFI 21-101 and AFPD 10-9.				A
AA.7.5.	Training Forecast / Request TR: AFI 36-2232 and AFI 21-101				A
AA.7.6.	Training Development Process TR: AFI 36-2232, AFI 21-101, and AETCI 36-2601				A
AA.8.	PERSONNEL RESOURCE MANAGEMENT				
AA.8.1.	Capability Based Manpower Standard and Logistics Composite Model (LCOM) TR: AFMAN 38-208 Volume 3, AFI 38-201, AFI 21-101 and AFTTP 3-21.1				A
AA.8.2.	Unit Manpower Document (UMD) and Unit Personnel Manpower Roster (UPMR) TR: AFI 38-201, AFTTP 3-21.1 and AFI 36-2110				A
AA.9.	MAINTENANCE SUPPLY				

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1. Tasks		4. Proficiency Codes Used To Indicate Training/Information Provided			
Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		(1) Crse	(1) CDC	(1) Crse	(2) CDC
AA.9.1.	Logistics Readiness Squadron (LRS) Supply Support TR: AFI 21-101 and AFTTP 3-21.1				A
AA.9.2.	Readiness Spares Packages TR: AFI 21-101 and AFTTP 3-21.1				A
AA.9.3.	Consumables Management TR: AFI 21-101, AFTTP 3-21.1, and AFMAN 23-110				A
AA.9.4.	Equipment Items TR: AFI 21-101, AFTTP 3-21.1 and AFMAN 23-110				A
AA.9.5.	Special Purpose Recoverable Authorized Maintenance (SPRAM) Assets TR: AFI 21-101, AFMAN 23-110 and AFI 21-103				A
AA.9.6.	Supply Assets Requiring Functional Check, Calibration, or Operational Flight Programming TR: AFI 21-101 and AFMAN 23-110				A
AA.9.7.	Precious Metals Recovery Program TR: AFMAN 23-110				A
AA.9.8.	Supply Points TR: AFI 21-101 and AFMAN 23-110				A
AA.9.9.	Local Manufacture TR: AFI 21-101				A
AA.9.10.	Repair Cycle Assets / Supply Management Products TR: AFI 23-110 and AFI 21-101				A
AA.9.11.	Tail Number Bins (TNB) TR: AFI 21-101				A
AA.9.12.	Maintenance Repair / Supply Delivery Priorities TR: AFI 21-101				A
AA.9.13.	Classified Assets TR: AFI 21-101 and TO 00-20-1				A
AA.9.14.	Hazardous Materials TR: AFMAN 24-204, AFI 91-301, AFI 24-202, AFMAN 23-110				A
AA.9.15.	Supply Deficiency and Discrepancy Reporting TR: AFI 23-110 and AFI 21-101				B
AA.10.	TECHNICAL ORDER POLICY TR: TO 00-5-1, AFI 21-101, AFI 21-303				
AA.10.1.	Use of Technical Orders (TO), TO Supplements and Publications TR: AFI 21-101 and AFTTP 3-21.1				A
AA.10.2.	Technical Order Update Process TR: AFI 21-303				A
AA.10.3.	Technical Order Waivers TR: AFI 21-303 and AFI 21-101				A
AA.11.	MAINTENANCE REQUIREMENTS AND PROGRAMS				
AA.11.1.	Cannibalization Program TR: AFI 21-101 and AFTTP 3-21.1				A
AA.11.2.	Restricted Maintenance Areas TR: AFI 21-101				A
AA.11.3.	Red Ball Maintenance TR: AFI 21-101 and AFTTP 3-21.1				A
AA.11.4.	Aircraft/Equipment Impoundment Program TR: AFI 21-101				A

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1. Tasks		4. Proficiency Codes Used To Indicate Training/Information Provided			
Knowledge And Technical References		A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		(1) Crse	(1) CDC	(1) Crse	(2) CDC
AA.11.5.	Maintenance Standardization and Evaluation Program (MSEP) Purpose and Inspection Types TR: AFI 21-101 and AFTTP 3-21.1				B
AA.11.6.	Foreign Object Damage (FOD) Program TR: AFI 21-101, AFI 36-2232 and AFTTP 3-21.1				A
AA.11.7.	Dropped Object Prevention (DOP) Program TR: AFI 21-101				A
AA.11.8.	Tool Management TR: AFI 21-101 and AFTTP 3-21.1				A
AA.11.9.	Tool Accountability TR: AFI 21-101 and AFTTP 3-21.1				A
AA.11.9.1.	Marking and Tool Identification TR: AFI 21-101				A
AA.11.9.2.	Locally Manufactured, Developed, or Modified Tools and Equipment TR: AFI 21-101				A
AA.11.9.3.	Lost Item/Tool Procedures TR: AFI 21-101				A
AA.11.10.	Maintenance Recovery Team TR: AFI 21-101				A
AA.11.11.	Aging Aircraft / Equipment Issues TR: AFI 21-101, DoD 5010.12-M and DMSMS Guide Book (SD-22)				A
AA.11.12.	Quality Assurance Evaluators TR: AFI 21-101 and AFTTP 3-21.1				A
AA.11.13.	Computer Applications TR: AF Portal, AF E-Publishing site, AF IT E-Learning site, Advanced Distributed Learning Services (ADLS) site, AF Center of Excellence for Knowledge Management (AFKM) site, Defense Travel System (DTS) training site, Air & Space Expeditionary Force Center site and the AF Center for Electronic Distribution of Systems (AFCEDS) site				A
AA.11.14.	Mobility TR: AFTTP 3-21.1, AFI 10-403, AFI 21-101, and the AFMAN 10-100 (Airman's Manual)				A
AA.11.15.	Crashed Damaged or Disabled Aircraft Recovery (CDDAR) Program TR: AFI 21-101				A