

DEPARTMENT OF THE AIR FORCE
Headquarters US Air Force
Washington, DC 20330-1030

CFETP 2A7X5
Parts I and II
19 July 2019

AFSC 2A7X5

LOW OBSERVABLE AIRCRAFT STRUCTURAL MAINTENANCE



CAREER FIELD EDUCATION AND TRAINING PLAN

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RELEASABILITY: There are no releasability restrictions on this publication.

**CAREER FIELD EDUCATION AND TRAINING PLAN
 LOW OBSERVABLE AIRCRAFT STRUCTURAL MAINTENANCE SPECIALTY
 AFSC 2A7X5
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OPR: 359 TRS/TRR
 Approved By: HQ USAF/A4LM (CMSgt Dong H. Kim)
 Supersedes: CFETP 2A7X5, 1 August 2014
 Number of printed pages: 49

**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 (LOASM) 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 AF e-publishing.

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

2. The CFETP consists of two parts; supervisors will use both parts to plan, manage, and control training 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 supervisors can use to determine if resources are available to support training. Included here are both mandatory and optional courses. Index includes 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 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.

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 36-2651, *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). USAF career field focused on non-reflective aspects of aircraft airframe structures and coatings.

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 preclude 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 identify the overall training requirements for an Air Force Specialty 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.

Section A - General Information

1. Purpose of the CFETP. This CFETP provides information necessary for Air Force Career Field Managers (AFCFMs), MAJCOM functional managers (MFM), 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).

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 and repairs using special fasteners and adhesives. Inspects standard LO repairs to ensure compliance with technical data specifications. Manufactures layouts, jigs, fixtures, forms, and molds.

4.2.2. Removes Radar Absorbent Material (RAM) by sanding, scraping or pulling using manual and powered methods. Fabricates repair parts from RAM, using cutting tools and adheres them to aircraft surfaces and fasteners using vacuum bags, fixtures, and other pressure inducing processes. Applies scrim material to RAM and aircraft surfaces in preparation for RAM cover strip installation. Installs RAM cover strips to panel and skin gaps. Applies RAM pastes to aircraft surface gaps, voids, and gouges. Sands and skives RAM and RAM pastes to required contours. Repairs low observable treatments on polycarbonate transparencies using edge sealing compounds, adhesives, primers, and conductive films. Performs repair actions to ceramic RAM coatings associated with engine hot areas and adjacent fairings using grit blasters and approved high temperature curing equipment. Identifies, removes, and treats corrosion using mechanical and chemical procedures. Applies aircraft paint schemes and markings.

4.2.3. Removes low observable finishes and treatments by sanding, scraping, cutting, gouging, and pulling, using manual and powered methods. Sands surface finishes to specified depths and widths to prepare them for proper reapplication of finishes using manual and powered methods. Determines extent of damage and/or scope of task and performs finish and treatment removal tasks accordingly. Removes panel, door, and skin fasteners to gain access to aircraft interior and replaces fasteners following maintenance. Cleans aircraft exterior surfaces and gaps to prepare them for filler treatments, fairing materials, and other follow-on maintenance. Mixes multi-part adhesives, sealants, fillers, fairing materials, and organic topcoats. Uses maintainer-fabricated enclosures with environmental control units, heaters, and climate control equipment to stabilize repair sites. Applies, sands, and skives fillers and fairing materials to Joint/Technical Order Data (TOD) specifications for waviness, step condition, and aerodynamic smoothness. Applies organic low observable topcoats and rain erosion materials using spray equipment, brushes and rollers. Uses ambient and accelerated cure processes to cure adhesives, sealants, fillers, fairing materials, and organic topcoats. Uses planform alignment procedures to determine proper repair angles and dimensions for low observable finishes and treatments. 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 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. 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 portable maintenance aids (PMA) and automated maintenance systems. Inputs, validates, and analyzes data processed to automated systems. Clears and closes out completed maintenance discrepancies in automated maintenance systems. Evaluates structural damage to aircraft structures or items and applies appropriate repair procedures to include application of adhesive films, prepregs, foam, and tape; and scarfing, layup, vacuum bagging, and accelerated curing techniques. Performs inspection and repair procedures for graphite Bismaleimide resin (BMI), graphite epoxy woven fabric, and uni-directional assemblies to include use of adhesive film, foam, tape, scarfing, lay-up and bagging techniques associated with hot bonders. Selects core materials to complete repairs, makes templates to use as patterns, and assures proper ply orientation and de-bulking. Selects bond form and prepares tools; lays-up; mixes and applies two part adhesives and sealants; installs temperature monitoring devices; cures adhesives; and otherwise completes repairs. Specifies curing process/specification to autoclave/curing oven operator for the part to be cured. Removes completed

items from bond forms after the cure cycle. Inspects final assembly for visual damage or flaws.

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 (JCABP2A735 048X) at 359th Training Squadron Detachment 1, 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. They are highly encouraged to 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 highly encouraged in their respective career field.

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 highly 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.

6.1. Initial Skills. Multiple changes were made to the STS during the June 2017 STRT/U&TW. Refer to the respective MFM and minutes.

6.2. Five-Level Upgrade Requirements. Multiple changes were made to the STS during the June 2017 STRT/U&TW. Refer to the respective MFM and minutes.

6.3. Seven-Level Upgrade Requirements. Multiple changes were made to the STS during the June 2017 STRT/U&TW. Refer to the respective MFM and minutes.

6.4. Supplemental Training. All ASM supplemental courses are available to 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 once they have been awarded the 5-skill level. 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. 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 managers 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 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.

7.6. 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:

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

7.6.1. 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.

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

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

7.6.4. 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.

7.6.5. 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.

7.7. 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. Milestones for the 2A7X5 AFSC.

Table 8.1 Enlisted Career Path				
Education and Training Requirements	Grade Requirements			
	Rank	Average Sew-On	Earliest Sew-On	High Year Of Tenure
Basic Military Training School				
Apprentice Technical School (3-Skill Level)	Amn A1C	6 months 10 months		
Upgrade To Journeyman (5-Skill Level) - RegAF: no minimum/15 month maximum. ARC: no minimum/no maximum - Complete Career Development Course if applicable.	Amn A1C SrA	10 months 3 years	28 months	10 years
Airman Leadership School (ALS) - Must be a SrA with 48 months time in service or be an SSgt Selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).	<u>Trainer</u> - Qualified and certified to perform the task to be trained. - Must attend formal AF Training Course. - Recommended by the supervisor.			
Upgrade To Craftsman (7-Skill Level) - RegAF: no minimum/8 month maximum. ARC: no minimum/no maximum - Complete Career Development Course if applicable. - Attend Craftsman course, if applicable.	SSgt	7.5 years	3 years	20 years
Noncommissioned Officer Academy (NCOA) -Must be a TSgt or TSgt Selectee. -Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt MSgt	12.5 years 16 years	5 years 8 years	22 years 24 years
USAF Senior NCO Academy (SNCOA) -Must be a SMSgt or SMSgt Selectee. -Resident graduation is a prerequisite for SMSgt sew-on (Active Duty Only).	SMSgt	19.2 years	11 years	26 years
Upgrade To Superintendent (9-Skill Level) - Minimum rank of SMSgt.	CMSgt	21.5 years	14 years	30 years

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

- Basic: Wear the basic badge after award of the 5-skill-level
- Senior: Wear the senior badge after award of the 7-skill-level
- Master: Wear the master badge after award of the 9-skill-level

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 AFECD.

10.1.1.1. Knowledge. The following knowledge is mandatory: LOASM aircraft construction features; identification and characteristics of materials; repair of coatings, LOASM 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, LOASM 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. This information is located in the AFECD.

10.1.1.3. Training. For award of AFSC 2A735, completion of the Low Observable Aircraft Structural Maintenance Apprentice course is mandatory.

10.1.1.4. Experience. This information is located in the AFECD.

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 AFECD.

10.2.1.1. Knowledge. The following knowledge is mandatory: LOASM aircraft construction features; identification and characteristics of materials; repair of coatings, LOASM 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, LOASM 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 installing 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. 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 CDC 2A755. Upgrade to the 5-level requires no minimum but a 15 month maximum time requirement for upgrade and retrainees (RegAF). There is no minimum/maximum time requirement for Air Reserve Command (ARC).

10.3. Craftsman Level Training (7-Level):

10.3.1 Specialty Qualification. This information is located in the AFECD.

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 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 corrosion identification, prevention, and repair; applying protective coatings and markings; or fabricating, assembling, and repairing aircraft low observable materials metal, fiberglass, advanced composites, honeycomb, and plastics.

10.3.2. Training Sources and Resources. Completion of 5 and 7 level core tasks represent the resources required for award of the 7-skill level.

10.3.2. Implementation. Upgrade to the 7-level will require completion of all core tasks. Upgrade to the 7-level requires no minimum but a 8 month maximum time requirement for upgrade and retrainees (RegAF). There is no minimum/maximum time requirement for Air Reserve Command (ARC).

10.4. Superintendent Level Training (9-Level):

10.4.1 Specialty Qualification. This information is located in the official specialty description in the AFECD.

10.4.1.1. Knowledge. Knowledge is mandatory of low observable aircraft structural maintenance, aircraft structural maintenance, metals technology, survival equipment, and nondestructive inspection methods; characteristics and identification of aerospace and non-aerospace materials; concepts and application of maintenance directives ; maintenance data reporting; and proper handling, storage, use and disposal of hazardous waste and materials.

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 2A771/72/73 or 75 is mandatory. Also, experience is mandatory managing structural maintenance, metals technology, survival equipment, or nondestructive inspection specialties and functions.

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 manpower/man-year or equipment/resource constraints.

14. Seven-Level Training. There are no manpower/man-year or equipment/resource 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

4. Course Objectives. A detailed listing of initial skills objectives may be obtained by submitting a written request to the AETC Training Manager, 359 TRS Det 1/TRR, 230 Chevalier Field Ave., NAS Pensacola FL, 32508-5142.

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.

5.1. Interactive Courseware (ICW) courses are available from (or under development by) 367 TRS/TRSS, Hill AFB, Utah. 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 A02B	B-2 Composite Repair	372 TRS
J4AMP2A7X5 B02B	B-2 Low Observable Maintenance	372 TRS
J4AMP2A7X5 A27A	F-22 Structural Maintenance Basic Coatings and Hardware	372 TRS
J4AMP2A7X5 B27A	F-22 Structural Maintenance Advanced Coatings and Hardware	372 TRS
J4AMP2A7X5 C27A	F-22 Structural Maintenance Coatings Assessment	372 TRS
J4AMP2A7X5 M28A	F-35 LO Maintenance Basics Interim Transition 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.

6.1. Air Force In-Resident Courses:

COURSE NUMBER	TITLE	OPR
JCABP2A735 048C	Low Observable Aircraft Structural Maintenance Apprentice	359 TRS Det 1
JCAZP2A753 0B1C	Aircraft Metal Bonded Repair	359 TRS Det 1
JCAZP2A753 0C1C	General Advanced Composite Repair	359 TRS Det 1

COURSE NUMBER	TITLE	OPR
J7AZT2A753 0M1B	Corrosion Prevention and Control (MTT)	359 TRS Det 1
J7AZT2A753 0M2B	Basic Repairs to Composites (MTT)	359 TRS Det 1

For further information contact the OPR at:
 359 TRS Det 1/TRR
 230 Chevalier Field Ave.
 NAS Pensacola, FL 32508-5142 DSN
 459-7483

6.2. Career Development Courses (CDC).

COURSE NUMBER	TITLE	OPR
CDC 2A755	Low Observable Aircraft Structural Maintenance Journeyman	359 TRS Det 1

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

6.3. Exportable Courses.

COURSE NUMBER	TITLE	OPR	MEDIA
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

For further information contact the OPRs at:

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

982 MXS/TSU
 912 I Ave Ste 4
 Sheppard AFB, TX 76311-2334
 DSN 736-3001

Section D – MAJCOM-Unique Requirements.

7. For MAJCOM-unique requirements, contact local UTM.

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 in October 2018.

9. Purpose of this STS. As prescribed in AFI 36-2651, *Air Force Training Program*, 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. 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 AFCD/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/Demotion Programs*. 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 36-2651. 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 36-2651. 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 36-2651.

11.1.2. Documenting Career Knowledge. 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 359 TRS/TRR, 230 Chevalier Field Ave, NAS Pensacola FL, 32508-5142, DSN 459-7483. Please reference specific STS paragraphs. 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

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

5 Attachments:

1. Proficiency Code Key
2. General STS
3. Aircraft Specific STS –B-2
4. Aircraft Specific STS –F-22
5. Aircraft Specific STS –F-35

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

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
2.	ATTACHMENT 2, GENERAL STS											
2.1	SECURITY								A	-	-	-
2.2	AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: AFI 91-203, 48-127, 48-137											
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								A	B	-	-
2.2.1.4	Maintain AF Form 55 (Employee Safety and Health Record)								-	-	-	-
2.2.1.5	Maintenance resource management (MRM)								-	-	-	-
2.2.1.6	Contamination control plan (transition plan)								-	-	-	-
2.2.1.7	Housekeeping plan								-	-	-	-
2.3	HAZARDOUS MATERIALS and WASTE HANDLING ACCORDING to ENVIRONMENTAL STANDARDS TR: AFI 91-202, 91-203, 32- 7086; TO 42C-1-12 and State/Local Regulations											
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	-	-
2.4	SUPERVISION and TRAINING TR: AFIs 21-101, 36-2651; TO 1-1-691; AFECD, MAJCOM Guidance, and Applicable TOs											
2.4.1	Perform Wing Corrosion Manager Responsibilities								-	-	-	-
2.4.2	Aircraft Wash Management								-	B	-	-
2.4.3	Train Personnel											
2.4.3.1	Determine training requirements		*						-	-	-	-
2.4.3.2	Assign OJT trainers or supervisors								-	-	-	-
2.4.3.3	Conduct training		*						-	-	-	-
2.4.3.4	Maintain records		*						-	-	-	-
2.4.3.5	Counsel trainees on training progress		*						-	-	-	-
2.4.4	OJT Trainer Requirements											
2.4.4.1	Prepare teaching outlines or task breakdowns		*						-	-	-	-
2.4.4.2	Provide trainee's theory and train on actual equipment		*						-	-	-	-
2.4.4.3	Evaluate trainee's knowledge and abilities		*						-	-	-	-
2.4.4.4	Provide supervisor and trainer feedback on results of training provided and trainees strengths and/or weaknesses		*						-	-	-	-

SPECIALTY TRAINING STANDARD

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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	Tag Start	Tag Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.4.5	Manage Resources TR: AFI 21-101; AFMAN 23-110											
2.4.5.1	Analyze workload requirements		*						-	-	-	-
2.4.5.2	Coordinate with other agencies		*						-	-	-	-
2.4.5.3	Determine or establish priorities		*						-	-	-	-
2.4.5.4	Adjust daily maintenance plans to meet operational commitments								-	-	-	-
2.4.5.5	Direct maintenance activities								-	-	-	-
2.4.5.6	Maintain equipment accountability								-	-	-	-
2.4.5.7	Plan and schedule maintenance								-	-	-	-
2.4.6	Determine Authorized Materials With: TR: AFI 21-101, AFMAN 23-110; TOs 00-5-1, 00-25-107, 1-1-8, 1-1-690, 1-1-691, 1-1-694											
2.4.6.1	Technical orders	*							-	B	-	-
2.4.6.2	Qualified products listings (QPLs)		*						-	A	-	-
2.4.6.3	Qualified products database (QPD)		*						-	A	-	-
2.4.6.4	Mil Specs								-	B	-	-
2.4.7	Supplies TR: AFI 21-101, AFMAN 23-110, to 00-35D-54											
2.4.7.1	Issue								-	-	-	-
2.4.7.2	Establish levels								-	-	-	-
2.4.7.3	Maintain levels								-	-	-	-
2.4.7.4	Shelf life program	*							A	B	-	-
2.4.7.5	Deficiency reporting program	*							-	-	-	-
2.4.7.6	Initiate deficiency reports		*						-	-	-	-
2.4.7.7	Depot level repairable (DLR)											
2.4.7.7.1	Identify								-	-	-	-
2.4.7.7.2	Process								-	-	-	-
2.5	TOOLS and EQUIPMENT TR: AFI 21-101; TOs 1-1A-8, 1-1-690, 1-1-691, 1-1-694, 32-1-101, Applicable -32, -33, -34 Series TOs, and Equipment Manuals											
2.5.1	Composite Tool Kits (CTKs)											
2.5.1.1	Inventory	*							2b	-	-	-
2.5.1.2	Manage		*						-	-	-	-
2.5.1.3	Use tool accountability software		*						-	-	-	-
2.5.1.4	Report lost tools	*							a	-	-	-
2.5.1.5	Conduct lost tool investigation								-	-	-	-
2.5.2	Use Hand Tools	*							2b	b	-	-

SPECIALTY TRAINING STANDARD

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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	Trg Start	Trg Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.5.3	Maintain Tools	*							-	-	-	-
2.5.4	Maintain Shop Equipment	*							-	b	-	-
2.5.5	Use Shop Equipment											
2.5.5.1	Arbor press								-	-	-	-
2.5.5.2	Band saw								2b	a	-	-
2.5.5.3	Weld band saw blades								-	-	-	-
2.5.5.4	Shrinking and stretching machine								-	-	-	-
2.5.5.5	Slip roll former								-	-	-	-
2.5.5.6	Stationary sander								2b	a	-	-
2.5.5.7	Dimpling machine								-	-	-	-
2.5.5.8	Drill press								1a	a	-	-
2.5.5.9	Stationary grinder								2b	a	-	-
2.5.5.10	Rotary (turret) punch								1a	-	-	-
2.5.5.11	Brakes											
2.5.5.11.1	Box and pan								1a	a	-	-
2.5.5.11.2	Cornice								1a	a	-	-
2.5.5.11.3	Power								-	-	-	-
2.5.5.11.4	Press								-	-	-	-
2.5.5.12	Shears											
2.5.5.12.1	Foot								2b	a	-	-
2.5.5.12.2	Power								2b	a	-	-
2.5.5.12.3	Scroll								2b	a	-	-
2.5.5.12.4	Throatless								2b	a	-	-
2.5.6	Coating Application Equipment											
2.5.6.1	Use film gauge, dry								-	b	-	-
2.5.6.2	Use film gauge, wet								2b	b	-	-
2.5.6.3	Paint booth								-	-	-	-
2.5.6.4	Paint shaker (agitator)								2b	b	-	-
2.5.6.5	Recovery still (chemical distillation)								-	-	-	-
2.5.6.6	Spray gun cleaning unit								1a	B	-	-
2.5.6.7	Spray equipment troubleshooting								B	B	-	-
2.5.6.8	Spray pattern defects								B	B	-	-
2.5.6.9	Sempens								A	A	-	-
2.5.6.10	Brushes								A	A	-	-
2.5.6.11	Use rollers								2b	b	-	-
2.5.6.12	High volume low pressure											
2.5.6.12.1	Use	*							2b	b	-	-
2.5.6.12.2	Maintain	*							2b	b	-	-
2.5.6.13	Pneumatic compactor								-	-	-	-

SPECIALTY TRAINING STANDARD

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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	Tag Start	Tag Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.5.6.14	Pressure pots											
2.5.6.14.1	Fundamentals								A	B	-	-
2.5.6.14.2	Use								-	-	-	-
2.5.6.14.3	Maintain								-	-	-	-
2.5.7	Use Composite Equipment											
2.5.7.1	Heat gun								-	-	-	-
2.5.7.2	Hot air gun (nitrogen)	*							2b	b	-	-
2.5.7.3	Hot bonder											
2.5.7.3.1	Program hot bonder								2b	b	-	-
2.5.7.3.2	Weld thermocouples								2b	a	-	-
2.5.7.4	Oven											
2.5.7.4.1	Curing								-	b	-	-
2.5.7.4.2	Vacuum system								-	-	-	-
2.5.8	Use Tubing Equipment											
2.5.8.1	Flaring machines											
2.5.8.1.1	Single								-	-	-	-
2.5.8.1.2	Double								-	-	-	-
2.5.8.2	Tube benders											
2.5.8.2.1	Computer numeric control (CNC)								-	-	-	-
2.5.8.2.2	Hand								-	-	-	-
2.5.8.2.3	Hydraulic								-	a	-	-
2.5.8.2.4	Production tubing bender								a	a	-	-
2.6	TECHNICAL PUBLICATIONS ELECTRONIC and/or MANUAL TR: 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, and -3, -4,-6, -23 Series											
2.6.1	Use	*							2b	b	-	-
2.6.2	Maintenance	*							2b	b	-	-
2.6.3	Illustrated Parts Breakdown								2b	b	-	-
2.6.4	TO Improvement Procedures								-	b	-	-
2.7	AIRCRAFT CONSTRUCTION FAMILIARIZATION TR: Applicable Aircraft TOs											
2.7.1	Conventional (Metal)								A	A	-	-
2.7.2	Low Observable (LO) Aircraft								A	B	-	-
2.8	STRUCTURAL INSPECTION TR: TOs 1-1-690, 1-1-691, 1-1-694, and -3, - 6 and -23 Series TOs											
2.8.1	Perform Inspection for Corrosion and Structural Damage											

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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
2.8.1.1	Surface								2b	b	-	-
2.8.1.2	Internal structures								2b	b	-	-
2.8.1.3	Optical micrometer								-	-	-	-
2.8.1.4	Pit depth gauge	*							2b	b	-	-
2.8.1.5	Perform tap test								-	-	-	-
2.8.2	Classify Damage											
2.8.2.1	Metal structures	*							1a	b	-	-
2.8.2.2	Composites	*							1a	b	-	-
2.8.2.3	Transparent plastics								-	b	-	-
2.8.2.4	Determine repair procedures		*						-	b	-	-
2.9	DOCUMENTATION TR: AFMAN 23-110; TO 00-5-1, 00-20-1 and -7, 34-1-3											
2.9.1	Use Forms											
2.9.1.1	Documents aircraft maintenance (electronic and/or manual)	*							2b	b	-	-
2.9.1.2	AFTO 95								-	a	-	-
2.9.1.3	AFTO 244 series	*							2b	b	-	-
2.9.1.4	AFTO 350	*							2b	b	-	-
2.9.1.5	DD 1577 series								-	-	-	-
2.9.2	Process Control Automated Management Systems (PCAMS)								-	-	-	-
2.9.3	Use Integrated Maintenance Data System (IMDS) TR: AFCSM 21 Series; TO 00-20 Series, and Applicable -6 TOs											
2.9.3.1	Open discrepancies								-	-	-	-
2.9.3.2	Close discrepancies								-	-	-	-
2.9.3.3	Access applicable IMDS menus and data screens								-	-	-	-
2.9.3.4	Use IMDS supply interface (SBSS)								-	-	-	-
2.10	CORROSION PREVENTION and CONTROL TR: AFOSH STDs 91-17, 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 AFI 21-101											
2.10.1	Corrosion principles											
2.10.1.1	Theory								B	B	-	-
2.10.1.2	Types								B	B	-	-
2.10.1.3	Factors affecting corrosion								B	B	-	-
2.10.2	Corrosion Prevention Compounds								A	B	-	-

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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	Trg Start	Trg Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC	
2.10.3	Corrosion Treatment												
2.10.3.1	Apply passivation chemicals								2b	a	-	-	
2.10.3.2	Remove corrosion (mechanical)	*							2b	a	-	-	
2.10.3.3	Remove corrosion (chemical)								-	a	-	-	
2.10.4	Protective Coating (Non-LO)												
2.10.4.1	Score support equipment coating								-	-	-	-	
2.10.4.2	Scoring fundamentals								A	A	-	-	
2.10.4.3	Prepare surface	*							2b	b	-	-	
2.10.4.4	Prepare coating	*							2b	b	-	-	
2.10.4.5	Apply coating	*							2b	b	-	-	
2.10.4.6	Apply tapes, boots, and protective films								-	-	-	-	
2.10.4.7	Remove tapes, boots, and protective films								-	-	-	-	
2.10.5	Remove Coating (Non-LO)												
2.10.5.1	Dry abrasive blasting								2b	b	-	-	
2.10.5.2	Mechanical sanding	*							2b	b	-	-	
2.10.5.3	Chemicals removal								-	b	-	-	
2.10.5.4	Media blasting booth								2b	b	-	-	
2.10.5.5	Media blasting cabinet								2b	b	-	-	
2.10.5.6	Sanding booth								-	-	-	-	
2.10.6	Structural Sealing												
2.10.6.1	Prepare sealants	*							1a	a	-	-	
2.10.6.2	Use sealants	*							1a	a	-	-	
2.10.7	Aircraft Markings												
2.10.7.1	Stencils												
2.10.7.1.1	Manufacture								-	b	-	-	
2.10.7.1.2	Apply								-	b	-	-	
2.10.7.2	Decals												
2.10.7.2.1	Manufacture								-	b	-	-	
2.10.7.2.2	Apply								-	b	-	-	
2.10.7.2.3	Remove								-	b	-	-	
2.11	REPAIR, MODIFY, and FABRICATE METAL PARTS and ASSEMBLIES of AIRFRAME STRUCTURES TR: TOs 1-1A-1,1-1A-8, 1-1A- 9,1-1-691, and Applicable Structural Repair and Corrosion Control TOs												
2.11.1	Identify Metals								1a	b	-	-	
2.11.2	Characteristics of Metals								B	A	-	-	
2.11.3	Interpret Drawings/Blueprints								1a	a	-	-	
2.11.4	Develop Layout for Repairs								2b	b	-	-	

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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	Trg Start	Trg Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.11.5	Develop Layout for Parts								2b	b	-	-
2.11.6	Calculate Shop Mathematics								2b	b	-	-
2.11.7	Cut Sheet Metal								1a	b	-	-
2.11.8	Form Metal Parts											
2.11.8.1	Machine form parts								1a	b	-	-
2.11.8.2	Hand form parts								-	-	-	-
2.11.9	Advanced Repair Concepts											
2.11.9.1	Design molds								-	-	-	-
2.11.9.2	Form blocks								-	-	-	-
2.11.9.2.1	Design								-	-	-	-
2.11.9.2.2	Manufacture								-	-	-	-
2.11.10	Install and Remove Fasteners											
2.11.10.1	Hole preparation	*							2b	b	-	-
2.11.10.2	Blind rivets, pull thru								2b	a	-	-
2.11.10.3	Blind rivets, friction lock								-	-	-	-
2.11.10.4	Blind rivets, mechanical lock								2b	a	-	-
2.11.10.5	Composi-Lok II								-	a	-	-
2.11.10.6	Eddie bolt								-	a	-	-
2.11.10.7	Hi-lok								2b	a	-	-
2.11.10.8	Hi-shear rivets								-	-	-	-
2.11.10.9	Hi-tique								-	-	-	-
2.11.10.10	Huckrimp								-	-	-	-
2.11.10.11	Jo-bolt								-	a	-	-
2.11.10.12	Straight shank								-	a	-	-
2.11.10.13	Mechanical lock blind bolt								2b	a	-	-
2.11.10.14	Solid rivets								2b	a	-	-
2.11.10.15	Microshave rivets								2b	a	-	-
2.11.10.16	Turnlock fasteners											
2.11.10.16.1	Airlock								-	-	-	-
2.11.10.16.2	Camloc								-	-	-	-
2.11.10.17	Nut plates											
2.11.10.17.1	Riveted	*							2b	b	-	-
2.11.10.17.2	Bonded	*							-	a	-	-
2.11.10.17.3	Cold worked nut plates								-	a	-	-
2.11.10.18	Aircraft bolts								-	a	-	-
2.11.10.19	Aircraft nuts								-	a	-	-
2.11.11	Remove Defective Screws	*							1a	b	-	-
2.11.12	Perform Metal Repairs											
2.11.12.1	Stop drill cracks								a	a	-	-

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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	Tag Start	Tag Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.11.12.2	Cold work holes								1a	b	-	-
2.11.12.3	Non-flush								2b	a	-	-
2.11.12.4	Flush								-	a	-	-
2.11.12.5	Sealed structural								2b	a	-	-
2.11.12.6	Combination substructural member								-	a	-	-
2.11.12.7	Reshape/blend damaged areas								2b	b	-	-
2.11.12.8	Apply aerodynamic smoothing compound								-	a	-	-
2.11.13	Trim and fit aircraft skins								-	-	-	-
2.11.14	Install access doors											
2.11.14.1	Latches								-	-	-	-
2.11.14.2	Hinges								-	-	-	-
2.11.14.3	Trim and fit access panels								-	-	-	-
2.12	AIRCRAFT TUBING ASSEMBLIES TR: TO 1-1A-8, and Applicable Aircraft TOs and NAVAIR TO 42E1-1-1											
2.12.1	Select Components											
2.12.1.1	Material								a	a	-	-
2.12.1.2	Hardware								a	a	-	-
2.12.2	Fabricate Aircraft Tubing Assembly								a	a	-	-
2.12.3	MS (Military Standard) Flare Less Fittings								a	-	-	-
2.12.4	AN (Army Navy) Flared Fittings								a	-	-	-
2.12.5	Repair											
2.12.5.1	Permalite								a	a	-	-
2.12.5.2	Dynatube								a	a	-	-
2.12.5.3	Permaswage								a	a	-	-
2.12.5.4	Ryngloc								a	a	-	-
2.12.5.5	Visually inspect and evaluate tubing damage								a	b	-	-
2.13	COMPOSITES REPAIR FUNDAMENTALS TR: TO 1-1-690, Applicable Aircraft TOs											
2.13.1	Identification of Composite Materials	*							A	B	-	-
2.13.2	Characteristics of Composites								A	B	-	-
2.13.3	Develop Layout for Composite Repairs								1b	a	-	-
2.13.4	Drilling and Countersinking of Composites	*							1b	b	-	-
2.13.5	Potted Fastener Hole Repair								1b	b	-	-
2.13.6	Trim and Fit Replacement Components								-	a	-	-
2.13.7	Perform Bonded Fiberglass Panel Honeycomb Core Repair								1b	b	-	-
2.13.8	Solid Laminate								-	b	-	-
2.13.9	Scarf Repair								1b	b	-	-

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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	Trg Start	Trg Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.13.10	Step Repair								-	-	-	-
2.13.11	Overlap Repair								-	b	-	-
2.13.12	Integral Blade Repair (L Angle)								-	-	-	-
2.13.13	Integral Hat Repair								-	-	-	-
2.13.14	Cut Materials								1b	a	-	-
2.13.15	Drying								1b	a	-	-
2.13.16	Ply Orientation								1b	a	-	-
2.13.17	Vacuum Bagging	*							1b	b	-	-
2.13.18	Prepare Liquid Matrix								1b	b	-	-
2.13.19	Storage and Handling								1b	b	-	-
2.13.20	Use Prepreg Materials								1b	b	-	-
2.14	GENERAL MAINTENANCE/ PRODUCTION TEAM TASKS TR: Applicable Aircraft TOs											
2.14.1	Aircraft Safe for Maintenance	*							a	a	-	-
2.14.2	Inspect/Use Ground Maintenance Stands	*							-	-	-	-
2.15	LOW OBSERVABLE (LO) FAMILIARIZATION TR: TO 1-1-694 and Applicable Aircraft TOs											
2.15.1	LO Definition	*							B	B	-	-
2.15.2	LO Signature Sources	*							B	B	-	-
2.15.3	Radar Definition	*							B	B	-	-
2.15.4	Radar Cross Sections	*							B	B	-	-
2.15.5	Signature Reduction Techniques	*							B	B	-	-
2.15.6	Inspection Principles	*							B	B	-	-
2.15.7	Radar Absorbing Structure (RAS)	*							B	B	-	-
2.16	LOW OBSERVABLE MATERIALS IDENTIFICATION TR: TO 1-1-694 and Applicable Aircraft TOs											
2.16.1	Sealants								B	B	-	-
2.16.2	Radar Absorbing Material (RAM)								B	B	-	-
2.16.3	Fairing								B	B	-	-
2.16.4	R-Card								B	B	-	-
2.16.5	Filler								B	B	-	-
2.16.6	Conductive								B	B	-	-
2.16.7	Non-Conductive								B	B	-	-
2.16.8	Infrared								B	B	-	-

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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	Tag Start	Tag Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC	
2.17	WEAPON SYSTEM PROGRAM SECURITY TR: DOD 5200.1-R; AFI 21- 109, 31-401, 33-201; AFP 100-46; AF Security Classification Guide												
2.17.1	Communications Security (COMSEC)								-	-	-	-	
2.17.2	Security Procedures for Special Access Programs								-	-	-	-	
2.17.3	Special Handling/Storage/Destruction of Classified Materials								-	-	-	-	
2.18	IDENTIFY LO DEFECTS												
2.18.1	Sealants								a	b	-	-	
2.18.2	RAM												
2.18.2.1	Spray								a	b	-	-	
2.18.2.2	Sheet								a	b	-	-	
2.18.3	Fairing								a	b	-	-	
2.18.4	R-Card								a	b	-	-	
2.18.5	Filler								a	b	-	-	
2.18.6	Conductive								a	b	-	-	
2.18.7	Non-Conductive								a	b	-	-	
2.18.8	Infrared								a	b	-	-	
2.18.9	Edge Moldings								a	b	-	-	
2.18.10	Top Coat								a	b	-	-	
2.19	REMOVE LO COATINGS TR: 1-1-694 and Applicable Aircraft TOs												
2.19.1	Race Tracking								2b	b	-	-	
2.19.2	Planform Alignment	*							2b	b	-	-	
2.19.3	RAM Removal												
2.19.3.1	Manual								2b	b	-	-	
2.19.3.2	Pneumatic								-	-	-	-	
2.20	LO COATING APPLICATION TR: 1-1-694 and Applicable Aircraft TOs												
2.20.1	Layout												
2.20.1.1	Use templates								2b	b	-	-	
2.20.1.2	Use straight edge for cutting RAM								2b	b	-	-	
2.20.1.3	Use protractor for proper repair angles								2b	b	-	-	
2.20.1.4	Conduct planform alignment	*							2b	b	-	-	
2.20.2	Prepare Surfaces												
2.20.2.1	Non-metallic								2b	b	-	-	
2.20.2.2	Metallic								-	b	-	-	
2.20.3	Apply Material												

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		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Trg Start	Trg Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
2.20.3.1	Primer								2b	b	-	-
2.20.3.2	Conductive								2b	b	-	-
2.20.3.3	RAM											
2.20.3.3.1	Adhesive								2b	b	-	-
2.20.3.3.2	Sheet								2b	b	-	-
2.20.3.3.3	Spray								-	-	-	-
2.20.3.3.4	Edge mold								-	b	-	-
2.20.3.3.5	Paste/caulk								2b	-	-	-
2.20.3.4	Fillers											
2.20.3.4.1	Gaps								2b	b	-	-
2.20.3.4.2	Fastener								2b	b	-	-
2.20.3.4.3	Fairing materials								2b	b	-	-
2.20.3.5	Cure materials											
2.20.3.5.1	Contact								2b	b	-	-
2.20.3.5.2	Noncontact								2b	b	-	-
2.20.3.6	Apply top coat								2b	b	-	-
2.21	CONDUCT LO PROCESS VERIFICATION TR: 1-1-694 and Applicable Aircraft TOs											
2.21.1	Visual		*						2b	b	-	-
2.21.2	Step		*						2b	b	-	-
2.21.3	Gap		*						2b	b	-	-
2.21.4	Aerodynamic smoothness		*						2b	b	-	-
2.21.5	Point inspection								a	b	-	-
2.21.6	Zonal radar imaging								a	b	-	-
2.22	GAP FILLING COMPOUNDS TR: 1-1-694 and Applicable Aircraft TOs											
2.22.1	Removal Procedures								2b	b	-	-
2.22.2	Surface Preparation								2b	b	-	-
2.22.3	Application								2b	b	-	-
2.22.4	Skiving								2b	b	-	-
2.22.5	Smoothness Verification								2b	b	-	-
2.23	FAIRING COMPOUNDS TR: 1-1-694 and Applicable Aircraft TOs											
2.23.1	Use Fairing Compounds								2b	b	-	-
2.23.2	Removal Procedures								2b	b	-	-
2.23.3	Surface Preparation								2b	b	-	-
2.23.4	Apply Fairing Compounds								2b	b	-	-
2.23.5	Verify Smoothness								2b	b	-	-

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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	Tag Start	Tag Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
3	ATTACHMENT 3, B-2											
3.1	GAP FILLING COMPOUNDS TR: 1B-2A-2-51GS											
3.1.1	Use Conductive Caulk	*							-	-	-	-
3.1.2	Use Silicone	*							-	-	-	-
3.1.2.1	Silicone surface preparation	*							-	-	-	-
3.1.3	Use caulk	*							-	-	-	-
3.1.4	Evaluate Damage	*							-	-	-	-
3.1.5	Removal Procedures	*							-	-	-	-
3.1.6	Prepare Surface	*							-	-	-	-
3.1.7	Apply	*							-	-	-	-
3.1.8	Skiving	*							-	-	-	-
3.1.9	Verify Smoothness	*							-	-	-	-
3.1.10	Use Resistive Materials	*							-	-	-	-
3.2	FAIRING COMPOUNDS TR: TO 1-1-694 and Applicable Aircraft TOs											
3.2.1	Use Fairing Compounds	*							-	-	-	-
3.2.2	Removal Procedures	*							-	-	-	-
3.2.3	Surface Preparation	*							-	-	-	-
3.2.4	Apply Fairing Compounds	*							-	-	-	-
3.2.5	Verify Smoothness	*							-	-	-	-
3.3	CONDUCTIVE TAPES TR: 1B-2A-51GS											
3.3.1	Evaluate Damage	*							-	-	-	-
3.3.2	Remove Tape	*							-	-	-	-
3.3.3	Prepare Surface	*							-	-	-	-
3.3.4	Apply Adhesive	*							-	-	-	-
3.3.5	Align Tape	*							-	-	-	-
3.3.6	Apply PSA Tape	*							-	-	-	-
3.3.7	Apply Permanent Tape	*							-	-	-	-
3.3.8	Cure Tape	*							-	-	-	-
3.3.9	Apply Thin Tape	*							-	-	-	-
3.3.10	Perform Injection Repair	*							-	-	-	-
3.3.11	Perform Uplifted Edge Repair	*							-	-	-	-
3.4	SPECIALIZED COATINGS TR: TO 1-1-8, 1-1-24, 1B-2A-2- 14GS											
3.4.1	Evaluate Damage	*							-	-	-	-
3.4.2	Removal Procedures/Racetracking	*							-	-	-	-
3.4.3	IR Primer Application	*							-	-	-	-

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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	Trg Start	Trg Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
3.4.4	Roll Masking	*							-	-	-	-
3.4.5	Conductive Coatings											
3.4.5.1	Conductivity Reading Requirements	*							-	-	-	-
3.4.5.2	Application Procedures	*							-	-	-	-
3.4.5.3	Smoothness Requirements	*							-	-	-	-
3.4.5.4	Spray Equipment Troubleshooting	*							-	-	-	-
3.4.5.5	Evaluate Damage	*							-	-	-	-
3.4.6	Anti-Static Coatings											
3.4.6.1	Apply	*							-	-	-	-
3.4.6.2	Smoothness Requirements								-	-	-	-
3.4.6.3	Evaluate Damage	*							-	-	-	-
3.4.6.4	Conductivity Reading Requirements								-	-	-	-
3.4.7	Rain Erosion Coating											
3.4.7.1	Apply								-	-	-	-
3.4.7.2	Smoothness Requirements								-	-	-	-
3.4.7.3	Evaluate Damage	*							-	-	-	-
3.5	RADAR ABSORBING STRUCTURE (RAS) TR: TO 1-1-690, 1B-2A-2-51GS											
3.5.1	Evaluate Damage								-	-	-	-
3.5.2	Remove Damage								-	-	-	-
3.5.3	Repair Lay-up								-	-	-	-
3.5.4	Inspect Repair		*						-	-	-	-
3.6	HOT TRAILING EDGE (HTE)/EXHAUST LIP CERAMIC MATRIX COMPOUND (CMC) TILE TR: TO 1B-2A-2-57GS											
3.6.1	Evaluate Tile Damage	*							-	-	-	-
3.6.2	Remove HTE Tile	*							-	-	-	-
3.6.3	Apply Adhesive for HTE Tile								-	-	-	-
3.6.4	Install HTE Tile	*							-	-	-	-
3.6.5	Cure HTE Tile								-	-	-	-
3.6.6	Repair HTE Tile		*						-	-	-	-
3.6.7	Remove CMC Tile								-	-	-	-
3.6.8	Apply Adhesive for CMC Tile	*							-	-	-	-
3.6.9	Install CMC Tile	*							-	-	-	-
3.6.10	Cure CMC tile	*							-	-	-	-
3.6.11	Repair CMC Using Tile Putty	*							-	-	-	-
3.6.12	Repair CMC Tile		*						-	-	-	-
3.6.13	Evaluate CMC/HTE Bond Line		*						-	-	-	-

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		5 Level	7 Level	Tag Start	Tag Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
3.6.14	Stub Seal Removal/Replacement	*							-	-	-	-
3.7	TAIL PIPE TR: TO 16W14-7-2, 1B-2A-2- 14GS											
3.7.1	Evaluate Damage	*							-	-	-	-
3.7.2	Remove Damage								-	-	-	-
3.7.3	Prepare Material								-	-	-	-
3.7.4	Apply Material								-	-	-	-
3.7.5	Verify Repair		*						-	-	-	-
3.7.6	Evaluate Bond Arc Coating								-	-	-	-
3.7.7	Repair Bond Arc Coating								-	-	-	-
3.8	SUPPORT EQUIPMENT TR: TO 1B-2A-2-50GS, 1B-2A- 2-51GS, 33A-1-8-90-1											
3.8.1	AOD Jar Mill								-	-	-	-
3.8.2	MAPPER/LOMPT	*							-	-	-	-
3.8.3	Gloss Meter								-	-	-	-
3.8.4	Loristta Meter								-	-	-	-
3.8.5	Magnetic Stirrer								-	-	-	-
3.8.6	Measurement Shrouds								-	-	-	-
3.8.7	Radial Lock Gun								-	-	-	-
3.8.8	Tape Cutting Machine	*							-	-	-	-
3.8.9	Portable Compressed Hot Air System (PCHAS)	*							-	-	-	-
3.8.10	Vacuum Heat Table								-	-	-	-
3.9	SEAL REPLACEMENT TR: Applicable Aircraft TOs											
3.9.1	Trim/Fit Seal								-	-	-	-
3.9.2	Align/Drill Fastener Holes								-	-	-	-
3.9.3	Install Fasteners								-	-	-	-
3.10	LIGHTNING STRIKE PATCH TR: TO 1B-2A-2-57GS											
3.10.1	Familiarization	*							-	-	-	-
3.10.2	Damage Evaluation	*							-	-	-	-
3.10.3	Repair								-	-	-	-
3.10.4	Removal								-	-	-	-
3.10.5	Application								-	-	-	-
3.11	PREPARE ENGINEER SUPPORT REQUEST (ESR)								-	-	-	-
3.12	PERFORM LO COATING ASSESSMENT											
3.12.1	Low Observable Critical Item (OCI)								-	-	-	-
3.12.2	Low Observable Critical Procedure (OCP)								-	-	-	-

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		5 Level	7 Level	Tag Start	Tag Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
3.12.3	Hardness Critical Items (HCI)								-	-	-	-
3.12.4	Hardness Critical Procedure (HCP)								-	-	-	-
3.13	KAPTON TR: TO 1B-2A-2-57GS											
3.13.1	Evaluate Damage	*							-	-	-	-
3.13.2	Removal Procedures								-	-	-	-
3.13.3	Surface Preparation								-	-	-	-
3.13.4	Application Procedures								-	-	-	-
3.13.5	Resistivity Inspection		*						-	-	-	-
3.14	ADVANCED HIGH FREQUENCY MATERIAL (AHFM)											
3.14.1	Evaluate Damage	*							-	-	-	-
3.14.2	Removal Procedures	*							-	-	-	-
3.14.3	Surface Preparation	*							-	-	-	-
3.14.4	Application Procedures	*							-	-	-	-
3.15	IRON FILLED ELASTOMER TR: TO 1B-2A-2-57GS											
3.15.1	Evaluate Damage	*							-	-	-	-
3.15.2	Removal Procedures	*							-	-	-	-
3.15.3	Surface Preparation	*							-	-	-	-
3.15.4	Application Procedures	*							-	-	-	-
3.16	B-2 SIGNATURE VERIFICATION TIERS TR: TO 1B-2A-2-50GS											
3.16.1	Signature Diagnostic Systems											
3.16.1.1	Inspection management system (IMS)								-	-	-	-
3.16.1.2	Close out defects								-	-	-	-
3.16.1.3	Upload new defects								-	-	-	-
3.16.1.4	Generate reports								-	-	-	-
3.16.1.5	Load/evaluate Tier 1 TOMIS inspection data								-	-	-	-
3.16.1.6	Upload Tier 2 data								-	-	-	-
3.16.1.7	Download lookup data for logger tool								-	-	-	-
3.16.1.8	Process Tier 2 data								-	-	-	-
3.16.1.9	Defect analyzer								-	-	-	-
3.16.1.10	Upload Tier 3 data								-	-	-	-
3.16.1.11	Upload Tier 4 data								-	-	-	-
3.16.1.12	Read and interpret zone images (Tier 2)		*						-	-	-	-
3.16.2	Perform LO Coating Assessment	*							-	-	-	-
3.17	TAIL PIPE INSPECTION PROCESS – TECHNICAL ORDER EXPANSION (TIP TOE II) TR: TO 1B-2A-2-50GS											

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		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
3.17.1	Inputting Data								-	-	-	-
3.17.2	Recording Data Results								-	-	-	-
3.18	TIER ONE MATERIAL INSPECTION SYSTEM (TOMIS) TR: TO 1B-2A-2-50GS											
3.18.1	General Information								-	-	-	-
3.18.2	Equipment Setup	*							-	-	-	-
3.18.3	Perform Annual Anritsu Calibration								-	-	-	-
3.18.4	Use Reflectometer	*							-	-	-	-
3.18.5	Use Paint Probe	*							-	-	-	-
3.18.6	Use VHF Probe	*							-	-	-	-
3.18.7	Restoration								-	-	-	-
3.19	DIAGNOSTIC RADAR SYSTEM (DRS) TR: TO 33D7-44-377-1, 1B-2A-2-50GS, -00-1 and Owner's Manual											
3.19.1	Operate Genie Lift								-	-	-	-
3.19.2	Service Genie Lift								-	-	-	-
3.19.3	Band 1 Assembly								-	-	-	-
3.19.4	Band 2 Assembly								-	-	-	-
3.19.5	Band 3 Assembly								-	-	-	-
3.19.6	Band 1 Calibration								-	-	-	-
3.19.7	Band 2 Calibration								-	-	-	-
3.19.8	Band 3 Calibration								-	-	-	-
3.19.9	DRS Inspection Setup								-	-	-	-
3.19.10	DRS Data Collection								-	-	-	-
3.20	AIRCRAFT DOCUMENTATION											
3.20.1	AF Form 781A								-	-	-	-
3.20.2	AF Form 781K								-	-	-	-
3.20.3	Prepare Engineer Support Request (ESR)		*						-	-	-	-
3.21	REPAIR, MODIFY, and FABRICATE METAL PARTS and ASSEMBLIES OF AIRFRAME STRUCTURES TR: TOs 1-1A-1, 1-1A-8, 1-1A-9,1-1-691, and Applicable Structural Repair and Corrosion Control TOs											
3.21.1	Identify Metals	*							-	-	-	-
3.21.2	Characteristics of Metals	*							-	-	-	-
3.21.3	Interpret Drawings/Blueprints	*							-	-	-	-
3.21.4	Develop Layout for Repairs	*							-	-	-	-
3.21.5	Develop Layout for Parts	*							-	-	-	-

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		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Tag Start	Tag Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
4	ATTACHMENT 4, F-22											
4.1	LO DESIGN FEATURES TR: TO 1-1-164; F-22 TOD											
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: TO 1-1-694, F-22 TOD											
4.2.1	Evaluate Damage	*							-	-	-	-
4.2.2	Locate Panel Perimeter Location/Zip Cord	*							-	-	-	-
4.2.3	Remove	*							-	-	-	-
4.2.4	Mask	*							-	-	-	-
4.2.5	Apply	*							-	-	-	-
4.2.6	Smooth Surface	*							-	-	-	-
4.2.7	Cure	*							-	-	-	-
4.2.8	Structural Adhesives											
4.2.8.1	Apply								-	-	-	-
4.2.8.2	Smooth Surface								-	-	-	-
4.2.8.3	Cure								-	-	-	-
4.3	RADAR ABSORBING MATERIALS (RAM) TR: TO 1-1-694, F-22 TOD											
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	*							-	-	-	-
4.3.1.6	Perform RAM disposal	*							-	-	-	-
4.3.2	RAM, Spray											
4.3.2.1	Application procedures	*							-	-	-	-
4.3.2.2	Curing procedures	*							-	-	-	-
4.3.2.3	Spray dielectric 5PTMRL21 Type I, Form I											
4.3.2.3.1	Application limitation								-	-	-	-
4.3.2.3.2	Application procedures								-	-	-	-

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		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Trg Start	Trg Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
4.3.2.3.3	Handling procedures								-	-	-	-
4.3.2.3.4	Sanding procedures								-	-	-	-
4.3.2.3.5	Cure procedures								-	-	-	-
4.3.3	Specialized Coatings											
4.3.3.1	Removal procedures/racetracking	*							-	-	-	-
4.3.3.2	Roll masking								-	-	-	-
4.4	PASTES TR: TO 1-1-694, F-22 TOD											
4.4.1	Type B/MTB, Form 2											
4.4.1.1	Application limitations	*							-	-	-	-
4.4.1.2	Application procedures	*							-	-	-	-
4.4.1.3	Sanding procedures	*							-	-	-	-
4.4.1.4	Cure procedures	*							-	-	-	-
4.4.2	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	Cure procedures	*							-	-	-	-
4.4.3	Type D, Form 2											
4.4.3.1	Application limitation								-	-	-	-
4.4.3.2	Application procedures								-	-	-	-
4.4.3.3	Handling procedures								-	-	-	-
4.4.3.4	Sanding procedures								-	-	-	-
4.4.3.5	Cure procedures								-	-	-	-
4.4.4	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	Cure procedures	*							-	-	-	-
4.4.5	Dielectric paste 5PTMRL21 Type I, Form II											
4.4.5.1	Application limitation								-	-	-	-
4.4.5.2	Application procedures								-	-	-	-
4.4.5.3	Handling procedures								-	-	-	-
4.4.5.4	Sanding procedures								-	-	-	-
4.4.5.5	Cure procedures								-	-	-	-
4.5	PRIMERS TR: TO 1-1-694, F-22 TOD											
4.5.1	High Temperature Primer											
4.5.1.1	Application procedures								-	-	-	-
4.5.1.2	Curing procedures								-	-	-	-

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		5 Level	7 Level	Tag Start	Tag Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
4.5.2	Waterborne Epoxy Primer											
4.5.2.1	Application procedures								-	-	-	-
4.5.2.2	Curing procedures								-	-	-	-
4.5.3	Non-Chromated Epoxy Primer											
4.5.3.1	Application procedures	*							-	-	-	-
4.5.3.2	Cure procedures	*							-	-	-	-
4.5.4	Flexible Polyurethane Primer											
4.5.4.1	Application procedures	*							-	-	-	-
4.5.4.2	Cure procedures	*							-	-	-	-
4.5.5	Silicone Primers											
4.5.5.1	Application procedures								-	-	-	-
4.5.5.2	Curing procedures								-	-	-	-
4.5.6	Silicone Adhesive Primer											
4.5.6.1	Application procedures								-	-	-	-
4.5.6.2	Curing procedures								-	-	-	-
4.5.7	Chromate Epoxy Primer											
4.5.7.1	Application procedures	*							-	-	-	-
4.5.7.2	Curing procedures	*							-	-	-	-
4.5.8	Aeroglaze Wash Primer Type 1											
4.5.8.1	Application procedures								-	-	-	-
4.5.8.2	Curing procedures								-	-	-	-
4.6	CONDUCTIVE COATING (SPTMRL04, TYPE I) TR: TO 1-1-694, F-22 TOD											
4.6.1	Mask	*							-	-	-	-
4.6.2	Application Procedures	*							-	-	-	-
4.6.3	Curing Procedures	*							-	-	-	-
4.7	TOPCOATS TR: TO 1-1-694, F-22 TOD											
4.7.1	IR Polyurethane Topcoat											
4.7.1.1	Application procedures	*							-	-	-	-
4.7.1.2	Curing procedures	*							-	-	-	-
4.7.2	Anti-Static Topcoat (Type I, II, III)											
4.7.2.1	Application procedures								-	-	-	-
4.7.2.2	Curing process								-	-	-	-
4.7.3	High Temperature Topcoat											
4.7.3.1	Application procedures	*							-	-	-	-
4.7.3.2	Curing procedures	*							-	-	-	-
4.7.4	Teflon Filled Topcoat											
4.7.4.1	Application procedures	*							-	-	-	-

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		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
4.7.4.2	Curing procedures	*							-	-	-	-
4.7.5	Rain Erosion Topcoats (Type 1 and Type 2 Materials)											
4.7.5.1	Application procedures	*							-	-	-	-
4.7.5.2	Curing procedures	*							-	-	-	-
4.7.6	Exterior Canopy Coating											
4.7.6.1	Application procedures								-	-	-	-
4.7.6.2	Curing procedures								-	-	-	-
4.8	CANOPY TR: TO 1-1-694, F-22 TOD											
4.8.1	Evaluate Damage	*							-	-	-	-
4.8.2	Film Repair	*							-	-	-	-
4.8.3	FX-345 Canopy Repair	*							-	-	-	-
4.8.4	Silicone Adhesive											
4.8.4.1	Application procedures	*							-	-	-	-
4.8.4.2	Curing procedures	*							-	-	-	-
4.9	SUPPORT EQUIPMENT TR: F-22 TOD; User's guide											
4.9.1	Turbo Spray Coating Equipment											
4.9.1.1	Operate	*							-	-	-	-
4.9.1.2	Maintain	*							-	-	-	-
4.9.1.3	Troubleshoot equipment	*							-	-	-	-
4.9.1.4	Spray pattern defect	*							-	-	-	-
4.9.2	Boot/Washer Cutter Kit											
4.9.2.1	Operate								-	-	-	-
4.9.2.2	Maintain								-	-	-	-
4.9.3	Boot Hole Cutter Kit											
4.9.3.1	Operate								-	-	-	-
4.9.3.2	Maintain								-	-	-	-
4.10	OUTER MOLD LINE INSPECTION TR: OML Marking Guide; F-22 TOD											
4.10.1	Perform OML Inspection	*							-	-	-	-
4.10.2	OML Damage Marking	*							-	-	-	-
4.10.2.1	Inspect form-in-place air gap tolerance	*							-	-	-	-
4.10.3	Enter Damages											
4.10.3.1	Manual	*							-	-	-	-
4.10.3.2	Automated (handheld)	*							-	-	-	-
4.11	AUDIT INSPECTION TR: OML Marking Guide; F-22 TOD											
4.11.1	Perform Audit Inspection		*						-	-	-	-

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		5 Level	7 Level	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC	
4.11.2	Verify Damages		*							-	-	-	-
4.12	INTEGRATED MAINTENANCE INFORMATION SYSTEM (IMIS) TR: User's Guide												
4.12.1	Functions of IMIS												
4.12.1.1	Forms	*								-	-	-	-
4.12.1.2	Illustrated parts breakdown (IPB)									-	-	-	-
4.12.1.3	Parts manager									-	-	-	-
4.12.1.4	Technical order data (TOD)	*								-	-	-	-
4.12.2	General												
4.12.2.1	Portable maintenance aid (PMA)												
4.12.2.1.1	Operate	*								-	-	-	-
4.12.2.1.2	Maintain									-	-	-	-
4.12.2.1.3	Security procedures									-	-	-	-
4.12.2.2	Maintenance support workcenter (MSW)												
4.12.2.2.1	Operate	*								-	-	-	-
4.12.2.2.2	Maintain									-	-	-	-
4.12.2.2.3	Security procedures									-	-	-	-
4.12.3	Signature Assessment System (SAS)												
4.12.3.1	View signature									-	-	-	-
4.12.3.2	Evaluate damages									-	-	-	-
4.12.3.3	Input damages									-	-	-	-
4.12.3.4	View priority screen									-	-	-	-
4.13	SAS MANAGEMENT TR: OML Marking Guide; F-22 TOD												
4.13.1	Build Reduction Packages									-	-	-	-
4.13.2	SAS Reporting									-	-	-	-
4.13.3	SAS Growth									-	-	-	-
4.14	SPECIAL FASTENERS/HARDWARE												
4.14.1	Solid Rivets									-	-	-	-
4.14.2	Microshave Rivets									-	-	-	-
4.14.3	Eddie Bolts	*								-	-	-	-
4.14.4	Cold Work Nutplates	*								-	-	-	-
4.14.5	Permalite	*								-	-	-	-
4.14.6	Ryngloc	*								-	-	-	-
4.15	REPAIR, MODIFY, and FABRICATE METAL PARTS and ASSEMBLIES of AIRFRAME STRUCTURES TR: TO 1-1A-1, 1-1A-8, 1-1A-9, 1-1-691, and Applicable Structural Repair and Corrosion Control TOs												

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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
4.15.1	Identify Metals								-	-	-	-
4.15.2	Interpret Drawing/Blueprints								-	-	-	-
4.15.3	Develop Layout for Repairs								-	-	-	-
4.15.4	Develop Layout for Parts								-	-	-	-
4.15.5	Calculate Shop Mathematics								-	-	-	-
4.15.6	Cut Sheet Metal								-	-	-	-
4.15.7	Perform Metal Repairs											
4.15.7.1	Stop drill cracks								-	-	-	-
4.15.7.2	Sealed structural								-	-	-	-
4.15.7.3	Reshape/blend damaged areas								-	-	-	-
4.16	COMPOSITE REPAIR FUNDAMENTALS TR: TO 1-1-690; Applicable Aircraft TOs											
4.16.1	Develop Layout for Composite Repairs								-	-	-	-
4.16.2	Overlap Repair								-	-	-	-
4.16.3	Prepare Liquid Matrix								-	-	-	-

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		A	B	A	B	C	D	E	A 3-Skill Level	B 5-Skill Level	C 7-Skill Level	
		5 Level	7 Level	Trg Start	Trg Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
5	ATTACHMENT 5, F-35											
5.1	LO DESIGN FEATURES TR: TO 1-1-694; Applicable JTD											
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: TO 1-1-694; Applicable JTD											
5.2.1	Non-Conductive Filler: Polythioether Sealing Compound											
5.2.1.1	Damage evaluation	*							-	-	-	-
5.2.1.2	Removal procedures	*							-	-	-	-
5.2.1.3	Masking procedures	*							-	-	-	-
5.2.1.4	Mixing procedures	*							-	-	-	-
5.2.1.5	Application procedures	*							-	-	-	-
5.2.1.6	Surface smoothness requirements	*							-	-	-	-
5.2.1.7	Curing procedures	*							-	-	-	-
5.2.1.8	Moldable plastic shim (EA- 9377)											
5.2.1.8.1	Application procedures								-	-	-	-
5.2.1.8.2	Surface smoothness requirements								-	-	-	-
5.2.1.8.3	Cure procedures								-	-	-	-
5.2.2	Conductive Filler: Form 1, Type 2 Gap filler											
5.2.2.1	Damage evaluation	*							-	-	-	-
5.2.2.2	Removal procedures	*							-	-	-	-
5.2.2.3	Masking procedures	*							-	-	-	-
5.2.2.4	Mixing procedures	*							-	-	-	-
5.2.2.5	Application procedures	*							-	-	-	-
5.2.2.6	Surface smoothness requirements	*							-	-	-	-
5.2.2.7	Curing procedures	*							-	-	-	-
5.2.2.8	Moldable plastic shim (EA- 9377)											
5.2.2.8.1	Application procedures								-	-	-	-
5.2.2.8.2	Surface smoothness requirements								-	-	-	-
5.2.2.8.3	Cure procedures								-	-	-	-
5.3	FILLED ELASTOMERIC SHEET (BOOT) TR: TO 1-1-694; Applicable JTD											

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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	Tag Start	Tag Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
5.3.1	Damage Evaluation	*							-	-	-	-
5.3.2	Removal Procedures	*							-	-	-	-
5.3.3	Layout and Cutting Procedures	*							-	-	-	-
5.3.4	Low Temp											
5.3.4.1	Application/bonding procedures	*							-	-	-	-
5.3.4.2	Curing procedures	*							-	-	-	-
5.3.5	Moderate Temp											
5.3.5.1	Application/bonding procedures	*							-	-	-	-
5.3.5.2	Curing procedures	*							-	-	-	-
5.3.6	Filled Elastomeric PSA Tape											
5.3.6.1	Removal	*							-	-	-	-
5.3.6.2	Application	*							-	-	-	-
5.4	PASTES (LOW TEMP and MODERATE TEMP) TR: TO 1-1-694; Applicable JTD											
5.4.1	Application Procedures	*							-	-	-	-
5.4.2	Sanding Procedures	*							-	-	-	-
5.4.3	Curing Procedures	*							-	-	-	-
5.5	PRIMERS TR: TO 1-1-694; Applicable JTD											
5.5.1	High Temperature Primer											
5.5.1.1	Application procedures								-	-	-	-
5.5.1.2	Curing procedures								-	-	-	-
5.5.2	Waterborne Epoxy Primer											
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	Adhesion Promoter											
5.5.5.1	Application procedures	*							-	-	-	-
5.5.5.2	Curing procedures	*							-	-	-	-
5.5.6	Silicone Sealant Primer											
5.5.6.1	Application procedures	*							-	-	-	-
5.5.6.2	Curing procedures	*							-	-	-	-
5.6	FIBERMAT TR: TO 1-1-694; Applicable JTD											

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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	Trg Start	Trg Complete	Traine Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
5.6.1	Removal								-	-	-	-
5.6.2	Sheet Repair Procedures								-	-	-	-
5.6.3	Curing Procedures								-	-	-	-
5.6.4	Paste Repair Procedures	*							-	-	-	-
5.6.5	Evaluate Damage								-	-	-	-
5.7	TOPCOATS TR: TO 1-1-694; Applicable JTD											
5.7.1	Anti-Static Topcoat											
5.7.1.1	Application procedures	*							-	-	-	-
5.7.1.2	Curing procedures	*							-	-	-	-
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	Class 3C Polyurethane Rain Erosion (Base Coat)											
5.7.4.1	Application procedures	*							-	-	-	-
5.7.4.2	Curing procedures	*							-	-	-	-
5.7.5	Class 2 Rain Erosion (Tiecoat)											
5.7.5.1	Application procedures	*							-	-	-	-
5.7.5.2	Curing procedures	*							-	-	-	-
5.7.6	Type 1 Non-IR Polyurethane Topcoat											
5.7.6.1	Application procedures	*							-	-	-	-
5.7.6.2	Curing procedures	*							-	-	-	-
5.7.7	Corrosion Resistant Topcoat											
5.7.7.1	Roll/brush application procedures	*							-	-	-	-
5.7.7.2	Curing procedures	*							-	-	-	-
5.8	TRANSPARENCY TR: TO 1-1-694; applicable JTD											
5.8.1	Canopy Transparency											
5.8.1.1	Inspection/damage evaluation	*							-	-	-	-
5.8.1.2	Repair application limitations								-	-	-	-
5.8.1.3	Repair application procedures								-	-	-	-
5.8.1.4	Curing procedures								-	-	-	-
5.8.2	Light Lens											
5.8.2.1	Inspection/damage evaluation	*							-	-	-	-
5.8.2.2	Repair application limitations								-	-	-	-
5.8.2.3	Repair application procedures								-	-	-	-

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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
5.8.2.4	Curing procedures								-	-	-	-
5.9	PORTABLE MAINTENANCE AID (PMA) TR: TO 1-1-694; Applicable JTD											
5.9.1	Operation	*							-	-	-	-
5.9.2	Maintenance	*							-	-	-	-
5.10	FASTENER FILLER TR: TO 1-1-694; Applicable JTD											
5.10.1	Hot Melt											
5.10.1.1	Visual inspection	*							-	-	-	-
5.10.1.2	Removal	*							-	-	-	-
5.10.1.3	Application	*							-	-	-	-
5.10.2	Fastener Filler Fairing Repair Paste											
5.10.2.1	Visual inspection	*							-	-	-	-
5.10.2.2	Removal	*							-	-	-	-
5.10.2.3	Application	*							-	-	-	-
5.11	SPECIALIZED TOOLING TR: TO 1-1-694; Applicable JTD											
5.11.1	Tool Set Edge, Seal Hole Cutter Kit								-	-	-	-
5.11.2	Permalite	*							-	-	-	-
5.11.3	Revolving Head Mixer	*							-	-	-	-
5.11.4	Hot Melt Irons	*							-	-	-	-
5.11.5	Tier 2 Zonal Imaging Tool								-	-	-	-
5.11.6	Eddie Bolts	*							-	-	-	-
5.12	BOOT GASKET/SEALS TR: TO 1-1-694; applicable JTD											
5.12.1	Use Low Temp								-	-	-	-
5.12.2	Perform Damage Evaluation								-	-	-	-
5.12.3	Removal Procedures								-	-	-	-
5.12.4	Application/bonding procedures								-	-	-	-
5.12.5	Curing procedures								-	-	-	-
5.13	AUTONOMIC LOGISTIC INFORMATION SYSTEM (ALIS) NAVIGATION/USE TR: 1-1-694; and JTD											
5.13.1	Initiate AR's in CRM		*						-	-	-	-
5.13.2	Computer Managed Maintenance System											
5.13.2.1	Create work order	*							-	-	-	-
5.13.2.2	Create solution	*							-	-	-	-
5.13.2.3	Create maintenance action	*							-	-	-	-
5.13.2.4	Complete work order	*							-	-	-	-
5.13.2.5	Complete maintenance action	*							-	-	-	-
5.13.2.6	Order parts/materials	*							-	-	-	-

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		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
5.13.3	Operate Low Observable Health Assessment System (LOHAS) TR: TO 1-1-694 ; Applicable JTD											
5.13.3.1	Evaluate and input outer mold line damages	*							-	-	-	-
5.13.3.2	Generate CMMS work orders	*							-	-	-	-
5.13.3.3	Navigate LODEM screens	*							-	-	-	-
5.13.3.4	Navigate LOMMM screens	*							-	-	-	-
5.14	REPAIR VERIFICATION RADAR (RVR) TR: 1-1-694; and JTD											
5.15	MAINTAIN ENVIRONMENTAL CONDITIONS TR: 1-1-694; and JTD											
5.15.1	Maintainer Fabricated Enclosure (MFE)											
5.15.1.1	Assemble								-	-	-	-
5.15.1.2	Disassemble								-	-	-	-
5.15.2	Local Enclosure (LE)											
5.15.2.1	Assemble								-	-	-	-
5.15.2.2	Disassemble								-	-	-	-
5.15.3	Environmental Control Unit (ECU)											
5.16	AUDIT INSPECTION											
5.16.1	Perform Audit Inspection		*						-	-	-	-
5.16.2	Verify Damages		*						-	-	-	-