

AFSC 2A7X2

NONDESTRUCTIVE INSPECTION



CAREER FIELD EDUCATION AND TRAINING PLAN

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NONDESTRUCTIVE INSPECTION SPECIALTY
AFSC 2A7X2
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**CAREER FIELD EDUCATION AND TRAINING PLAN
NONDESTRUCTIVE INSPECTION SPECIALTY
AFSC 2A7X2**

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 2A7X2, Nondestructive Inspection, 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 CFETP, go to e Pubs.

<http://www.e-publishing.af.mil/>

The CFETP consists of two parts. Supervisors will use both parts to plan, manage, and control training.

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

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

3. Using guidance provided in the CFETP will ensure individuals in this specialty receive effective and efficient training at the appropriate point in their career.

ABBREVIATIONS/TERMS EXPLAINED

Advanced Training (AT). 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. Supervisors use the AFJQS to document task qualifications. The tasks of 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 (3rd Party Certifier). A person the commander assigns to determine an individual's ability to perform a task to required standards.

Continuation Training. This is additional training that exceeds minimum upgrade requirements and has an emphasis on present or future duty assignments.

Contract Training. 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. A task that the Air Force Career Field Manager (AFCFM) identifies as minimum qualification requirements within an Air Force Specialty regardless of duty position. Only a percentage of critical tasks for each system are listed as mandatory core tasks. This gives units needed flexibility to manage their workforce training.

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

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

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

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

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

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.

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., A-10, F-16, C-130).

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 train 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 skill/knowledge training required to do the job.

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

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

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

Training by Other Government Agencies. 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).

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

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

Web Site Links:

| | |
|---------|---|
| ADLS | https://golearn.csd.disa.mil/kc/login/login.asp |
| CCAF | http://www.au.af.mil/au/ccaf/ |
| CAF | https://afkm.wpafb.af.mil/ASPs/CoP/OpenCoP.asp?Filter=OO-TE-AC-42 |
| MCL | |
| ETCA | https://etca.randolph.af.mil/ |
| HQ | https://afkm.wpafb.af.mil/ASPs/CoP/OpenCoP.asp?Filter=OO-LG-AF-35 |
| USAF/A4 | |
| LF | |
| MAF | https://afkm.wpafb.af.mil/ASPs/docman/DOCMain.asp?Tab=0&FolderID=OO-ED-AM-91-2&Filter=OO-ED-AM-91 |
| MCL | |
| 367 TRS | https://367trss.hill.af.mil |
| 982 | https://www.my.af.mil/gcss-af/USAF/ep/globalTab.do?command=org&channelPageId=s6925EC134F0A0FB5E044080020E329A9 |
| MXS/LG | |
| MS | |

Section A - General Information

1. Purpose of the CFETP. This CFETP provides the information necessary for Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective career field training program. This plan outlines the training that individuals in AFSC 2A7X2 should receive to develop and progress throughout their career. This CFETP identifies initial skill, upgrade, qualification, advanced, and proficiency training. Initial skills training is the AFSC 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-, 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, such as:

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

1.2. Identifies tasks 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. Lists training courses that are available in the specialty and identifies sources of training and the training delivery method.

1.4. Identifies major resource constraints which impact full implementation of the desired career field training process.

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

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

2.2. MFMs will ensure their training programs complement the CFETP mandatory initial, upgrade, and proficiency requirements. OJT, resident training, contract training, or exportable courses can satisfy these identified requirements. MAJCOM developed training, to support this

AFSC, must be identified for inclusion in this plan and must not duplicate other available training resources.

2.3. Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.

3. Coordination and Approval of the CFETP. The AFCFM is the approval authority. The AETC training manager for AFSC 2A7X2 will initiate an annual review of this document by AETC and MFM to ensure currency and accuracy. The using MAJCOM representatives and AETC training personnel will identify and coordinate on the career field training requirements. Use the list of courses in Part II to 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. Nondestructive inspection is a process technique used to evaluate the integrity of a material component or structure without damaging or impairing its serviceability. Inspects aircraft components and support equipment for structural integrity using nondestructive inspection methods and analyzes engine oil for wear metal debris. Related DoD Occupational Subgroup: 176000

4.2. Duties and Responsibilities. Refer to Air Force Enlisted Classification Directory (AFECD) <https://gum-crm.csd.disa.mil/app/home> , and enter search key word “AFECD”.

4.2.1. Determines NDI test methods using applicable technical orders; prepares parts for inspection; interprets and evaluates indications on aircraft and support equipment using magnetic particle, ultrasonic, eddy current, radiographic, liquid penetrant and other emerging technologies. Prepares engine samples for wear metal analysis and evaluates test results. Handles, labels and disposes of hazardous materials and waste according to federal, state and local environmental standards.

4.2.2. Plans and schedules NDI activities. Interprets technical publications and inspection results to resolve problems on aircraft systems and support equipment. Establishes priorities for completion of maintenance tasks and provides assistance in solving maintenance, supply and personnel issues. Provides training, feedback and task qualification for skill level advancement. Establishes performance standards and improves work methods. Supervises and evaluates job performance and maintenance techniques. Ensures maintenance and safety policy compliance for all NDI activities. Maintains and documents equipment, supply, certification, training, and aircraft forms. Evaluates requirements and prepares quality deficiency reports.

4.2.3. Plans, organizes, and directs aircraft fabrication maintenance activities. Manages maintenance and staff functions for NDI, aircraft metals technology, aircraft structural maintenance and low observable aircraft structural maintenance. Establishes production controls. Interprets directives and publications pertaining to fabrication maintenance. Analyzes

maintenance management reports. Interprets and evaluates directives and publications, inspection findings, records, and reports to recommend corrective actions. Establishes safety and training guidelines. Plans, organizes, directs and controls troubleshooting and repair activities of fabrication personnel. Manages and controls fabrication flight resources including personnel facilities, funds, supplies and equipment. Manages handling, labeling, and disposal of hazardous materials and waste according to federal, state and local environmental standards.

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 2A7X2 career field table identify the skill/career progression.

5.1. Apprentice (3) Level. Following Basic Military Training, initial skills training will be provided in a resident course at 359th Training Squadron, Detachment 1, Naval Air Station, Pensacola, Florida. Upon completion of this initial-skills course, graduates are awarded the 3-skill level (AFSC 2A732). The course provides a foundation for additional training at the graduate's first duty assignment where trainees work with a trainer to increase knowledge and skills. Trainees utilize the career development course (CDC), task qualification training, and other exportable courses to progress in their career field. Once the trainee has met all requirements for the task, the trainee may perform the task unsupervised.

5.2. Journeyman (5) Level. Upgrade training to the 5-skill level includes task and knowledge training. After award of the 3-skill level, trainees are enrolled in 5-level CDC. Additionally, trainees must complete 5-skill level, upgrade training requirements (core tasks) identified in the STS. Once upgraded to the 5-level, the journeyman will enter into continuation training to broaden their experience base by increasing their knowledge and skill in troubleshooting and solving more complex problems. Five-levels will be considered for appointment as unit trainers. Individuals will use their CDCs to prepare for Weighted Airman Promotion System (WAPS) testing. They should also consider continuing their education toward a Community College of the Air Force (CCAF) degree.

5.3. Craftsman (7) Level. For award of the 7-skill level, an individual must successfully complete all required 7-level training identified in this CFETP and meet 7-level minimum upgrade requirements in AFI 36-2101 *Classifying Military Personnel (Officer and Enlisted)* and Air Force Enlisted Classification Directory (AFECD). Completion of CDC 2AX7X, Aerospace Maintenance Craftsman Course is required for 7-level upgrade. Exportable MDS specific courses and MAJCOM/unit directed courses are also available. A 7-level should take courses or obtain added knowledge in management of resources and personnel. Continued academic education through CCAF and higher degree programs is encouraged.

5.4. Superintendent (9) Level. For award of the 9-skill level, individuals must hold the rank of SMSgt. 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 AFSC is also recommended.

6. Training Decisions. The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Nondestructive Inspection career field. The spectrum includes a strategy for when, where, and how to meet these training requirements. The strategy must ensure we develop affordable training, eliminate duplication, and prevent a fragmented approach to training. The following training decisions were made at the career field utilization and training workshop held at Naval Air Station, Pensacola, Florida from 25-28 Feb 2013.

6.1. Core Tasks. During the review of the CFETP, 5-level core tasks were reduced from sixty to forty nine and 7-level core tasks remain at six. 33 additional tasks will require Third Party Certification for 5-levels and two additional tasks will require Third Party Certification at the 7-skill level. Third Party Certification items are identified by a bold border around the core task asterisk.

6.2. Initial Skills. The decision was made to eliminate the training requirement for Career Field Progression, Duties of the AFSC, Levels of Maintenance, and Inspection Systems. Training was reduced for Film Selection and Fundamentals of data automation. Additions included Maintenance Resource Management (MRM), Use microscope and magnifier, inspect parts using through-transmission and pulse methods, and corrosion identification. Time savings were applied to Eddy Current (2hrs), Basic metallurgy (2 hrs.) and fundamentals of ultrasonics (1 hr.). These changes will result in only minor changes to the apprentice course.

6.3. Supplemental Courses. Ultrasonic and Impedance Plane Inspection course was reviewed and meets requirements. No changes were recommended.

6.4. Five Level CDCs. All four 2A752 volumes were reviewed and minor changes will be necessary.

6.5. Seven-Level Upgrade Requirements. No Seven-Level Upgrade Requirements were changed.

6.6. Continuation Training. Any additional knowledge and skill requirements that 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 position. MAJCOMs develop a proficiency training program that ensures individuals in the Nondestructive Inspection 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). CCAF is one of several federally chartered degree-granting institutions and the only 2-year institution serving only military enlisted personnel. The college is a multi-campus institution and is regionally accredited through Air University by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) to award AAS degrees designed for specific Air Force occupational specialties. The college offers 68 technical degree programs serving more than 321,000 students at more than 100 worldwide affiliated technical training schools. Enrollment in CCAF occurs upon completion of basic military training. CCAF provides the opportunity to obtain an Associate in Applied Sciences technical degree.

7.1. CCAF Degree Requirements. All enlisted 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..... | 15 |
| | Total: 64 |

7.1.1. Technical Education. (24 Semester Hours): Completion of the career field 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.

7.1.2. Leadership, Management, and Military Studies. (6 Semester Hours): Enlisted Professional Military Education (EPME) and/or civilian management courses.

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

7.1.4. 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.

7.1.5. 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.

7.2. Professional Certifications. Certifications assist the professional development of our Airmen by broadening their knowledge and skills. Additionally, specific certifications may be awarded collegiate credit by CCAF and civilian colleges, saving time and Air Force tuition

assistance funds. It also helps airmen to be better prepared for transition to civilian life. To learn more about professional certifications and certification programs offered by CCAF, visit <http://www.au.af.mil/au/ccaf/certifications.asp>. In addition to its associate degree program, CCAF offers the following certification programs and resources:

7.2.1. Federal Aviation Administration (FAA) Airframe and Powerplant (A&P)

Certification. Air Force aircraft maintenance technicians are eligible to pursue FAA A&P certification based on training and experience in accordance with Federal Aviation Regulation Part 65. The DoD established the Joint Service Aviation Maintenance Technician Certification Council (JSAMTCC) to standardize the eligibility and certification process for the military and provide direction and resources necessary to fill the gaps within military training and experience. Completing the Air Force A&P Certification Program, managed by CCAF, will fill training and experience gaps, ensuring FAA eligibility. The program consists of three Air University Online A&P Specialized Courses, OJT and experience requirements contained in a Qualification Training Package (QTP). Technicians may enroll in the program once they have been awarded the 5-skill level. To learn more, visit CCAF at <http://www.au.af.mil/au/ccaf/certifications.asp>. CCAF awards 30 semester hours for FAA A&P certification and 18 semester hours for FAA Airframe or Powerplant certification.

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

7.2.3. 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 CIC is a professional credential that recognizes the instructor's extensive faculty development training, education and qualification required to teach a CCAF course, and formally acknowledges the instructor's practical teaching experience.

7.2.4. CCAF Instructional Systems Development (ISD) Certification Program. CCAF offers the ISD Certification Program for qualified curriculum developers and managers who are formally assigned at CCAF affiliated schools to develop and manage CCAF collegiate courses. The ISD Certification is a professional credential that recognizes the curriculum developer's or manager's extensive training, education, qualifications and experience required to develop and manage CCAF courses. The certification also recognizes the individual's ISD qualifications and experience in planning, developing, implementing and managing instructional systems.

7.2.5. CCAF Professional Manager Certification (PMC). CCAF offers the PMC Program for qualified Air Force NCO's. The PMC is a professional credential awarded by CCAF that formally recognizes an individual's advanced level of education and experience in leadership and management, as well as professional accomplishments. The program provides a structured professional development track that supplements Enlisted Professional Military Education (EPME) and Career Field Education and Training Plan (CFETP).

7.2.6. CCAF Credentialing and Education Research Tool (CERT). CCAF implemented CERT to increase awareness of professional development opportunities applicable to Air Force occupational specialties. It is a valuable resource for Air Force enlisted personnel and provides information related to specific AFSCs, such as: AFSC description; civilian occupation equivalencies (US Department of Labor); CCAF degree programs; national professional certifications; certifying agencies; and professional organizations.

7.2.7. 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. Enlisted Career Path. Table 8.1 identifies career milestones for the 2A7X2 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 16 months | | |
| Upgrade To Journeyman (5-Skill Level) - Minimum 12 months OJT - Minimum 9 months OJT for retrainees - Complete all 5-level core tasks - Complete appropriate CDC if/when available | Amn A1C SrA | 6 months 16 months 3 years | 22 months BTZ 28 months | 8 years |
| Airman Leadership School (ALS) - Must be a SrA with 48 months time in service or be a SSgt Selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only). | <u>Trainer</u> -Trained and qualified to perform the task to be trained -Must attend the Air Force Training Course (AFTC) <u>Certifier</u> -Minimum rank of SSgt with a 5-skill level, or civilian equivalent, capable of evaluating the task being certified, and have completed the AFTC. | | | |
| Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt - Minimum 12 Months OJT - Minimum 6 Months OJT for retrainees - Complete all 5- and 7-level core tasks - Complete appropriate CDC if/when available | SSgt | 4.5 years | 3 years | 15 years |
| Noncommissioned Officer Academy (NCOA) - Must be a TSgt, MSgt Selectee, or MSgt - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only) | TSgt MSgt | 9.7 years 15.9 years | 5 years 8 years | 20 years 24 years |
| Upgrade to Superintendent (9-Skill Level) - Minimum rank of SMSgt USAF Senior NCO Academy (SNCOA) - Must be a MSgt, SMSgt, or SMSgt Selectee - Resident graduation is a prerequisite for SMSgt sew-on (Active Duty Only) | SMSgt | 19.5 years | 11 years | 26 years |
| Chief Enlisted Manger (CEM) | CMSgt | 22.8 years | 14 years | 30 years |

Section C - Skill Level Training Requirements

9. Purpose. Skill level training requirements in the 2A7X2 career field are defined in terms of tasks and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in broad, general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific tasks and knowledge training requirements are identified in Part II, Section E, Specialty Training Standard (STS).

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:

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

10.1.1.1. Knowledge. To perform duties at the 3-skill level, an individual must possess basic knowledge of the following: characteristics of metal identification; wear metals identification and content; metal discontinuity and flaw detection; operation and maintenance of nondestructive test and oil analysis equipment; safety directives and practices; radiological safety and radiation monitoring procedures; technical orders and directives; and proper handling, use, and disposal of hazardous waste and materials IAW applicable federal, state and local directives.

10.1.1.2. Education. For entry into this specialty, completion of high school with courses in mathematics, chemistry, industrial technology, physics, and shop is desirable. Also, completion of computer knowledge courses is desirable.

10.1.1.3. Training. For award of AFSC 2A732, completion of the Nondestructive Inspection Apprentice course is mandatory.

10.1.1.4. Experience. None.

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

10.1.3. Implementation. Upon graduation from Basic Military Training (BMT), completion of the Nondestructive Inspection 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:

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

10.2.1.1. Knowledge. In addition to the 3-level qualifications, a 5-skill level must be able to understand and apply knowledge of the following: characteristics of metals identification; wear metals identification and content; metal discontinuity and flaw detection; operation and maintenance of nondestructive test and oil analysis equipment; safety directives and practices; radiological safety and radiation monitoring procedures; technical orders and directives; and proper handling, use, and disposal of hazardous waste and materials IAW applicable federal, state and local directives.

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 2A752, 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 2A732. Also, experience in flaw detection process controls, equipment calibration and maintenance, safety directives, and hazardous waste and materials. Completion of all 5-level core tasks identified in the STS is mandatory.

10.2.2. Training Sources and Resources. A minimum of 12 months (9 months for retrainees) on-the-job training, completion of the 2A752 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 2A752, completion of all core tasks, and 12 months upgrade training.

10.3. Craftsman Level Training:

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

10.3.1.1. Knowledge. A 7-level must possess advanced skills and knowledge of the following: characteristics of metals identification; wear metals identification and content; metal discontinuity and flaw detection; operation and maintenance of nondestructive test and oil analysis equipment; safety directives and practices; radiological safety and radiation monitoring procedures; technical orders and directives; and proper handling, use, and disposal of hazardous waste and materials IAW applicable federal, state and local directives.

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

10.3.1.3. Training. Completion of the mandatory 2AX7X CDC and 7-level core tasks is mandatory for upgrade to 2A772.

10.3.1.4. Experience. Qualification in and possession of AFSC 2A752. Completion of all 5- and 7-level core tasks identified in the STS is mandatory.

10.3.2. Training Sources and Resources. A minimum of 12 months (6 months for retrainees) on-the-job training, completion of CDC 2AX7X, and -5 and -7 level core tasks represent the resources required for award of the 7-skill level.

10.3.3. Implementation. Upgrade to the 7-level will require completion of all AF core tasks, 12 months OJT and 7-level 2AX7X CDC.

10.4. Superintendent Level Training:

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

10.4.1.1. Knowledge. Knowledge of the following is mandatory: aircraft structural maintenance, low observable aircraft structural maintenance, metals technology, and nondestructive inspection methods; maintenance data reporting; and proper handling, storage, use, and disposal of hazardous waste and materials IAW applicable federal, state and local directives.

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

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

10.4.1.4. Experience. For award of AFSC 2A790, qualification in and possession of AFSC 2A771, 2A772, 2A773, or 2A775 is mandatory. Also, experience is mandatory managing aircraft structural maintenance, low observable aircraft structural maintenance, aircraft metals technology, corrosion control 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. Three-Level Training: No 3-level resource constraints were identified by the U&TW.

13. Five-Level Training: No 5-level resource constraints were identified by the U&TW.

14. Seven-Level Training: No 7-level resource constraints were identified by the U&TW.

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 students so they know what is expected of them to successfully complete training on each task. Each objective is comprised of a condition, behavior, and standard that states what is expected of the student for each task. The condition is the setting in which the training takes place. 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 that 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's 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. Most task performance is taught to the "2b" or "3c" proficiency level. The "2b" means the student **can do most parts of the task**, but does need assistance on the hardest parts of the task (**partially proficient**). The student can also determine step-by-step procedures for doing the task. The "3c" means the student **can do all parts of the task** but may need a spot check of completed work (**competent**). The student should be able to identify why and when the task must be done and why each step is needed.

4. Course Objectives. If you require detailed course descriptions and objectives, please provide a written request to the AETC Training Manager, 359 TRS Det 1, 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. ETCA can be accessed at <https://etca.randolph.af.mil>.

5.1. Interactive Courseware (ICW) courses are available from (or under development by) 367 TRS/TRSS, Hill AFB, Utah. Their course catalog is available on the Internet at <https://367trss.hill.af.mil>. Questions should be referred to the customer service number at DSN 586-4014

5.2. The Air Force NDI Office is the central point of contact for the NDI community. This information can be found at <https://www.my.af.mil/gcss-af/USAF/ep/globalTab.do?channelPageId=s6925EC1338750FB5E044080020E329A9> .

Section C - Training Course Index

6. Purpose. This section of the CFETP identifies Air Force resident, Air Force Institute for Advanced Distributed Learning (ADLS), and exportable courses used to support training for the 2A7X2 Nondestructive Inspection specialty. Refer to the Air Force Education and Training Course Announcements (ETCA) <https://etca.randolph.af.mil/> for information on AETC formal courses listed below. For further information on the following courses, contact the OPR at:

359 TRS Det 1/TRR
230 Chevalier Field Ave
NAS Pensacola, FL 32580-2142
DSN 459-7477

7. Air Force In-Resident Courses:

| COURSE NUMBER | COURSE TITLE | OPR |
|----------------------|--|---------------|
| JCABP2A732 048B | Nondestructive Inspection Apprentice | 359 TRS Det 1 |
| JCAZP2A752 0U1A | Ultrasonic Inspection and Impedance Plane Analysis | 359 TRS Det 1 |

8. Air Force Advanced Distributed Learning Service (ADLS) Courses:

| COURSE NUMBER | COURSE TITLE | OPR |
|----------------------|--------------------------------------|---------------|
| CDC 2A752 | Nondestructive Inspection Journeyman | 359 TRS Det 1 |
| CDC 2AX7X | Aerospace Maintenance Craftsman | 362 TRS |

9. Exportable Courses.

| COURSE NUMBER | COURSE TITLE | OPR |
|----------------------|----------------------------|------------|
| J6AZW2AXXX 0Q1A | Quality Assurance Aircraft | 362 TRS |

For further information contact the OPR at:

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

Interactive Courseware (ICW) courses are available from or are under development by 367 TRS/TRSS at Hill AFB, Utah and 982 MXS/LGMS at Sheppard AFB, Texas.

For further information contact the OPRs at:

367 TRS/TRSS
6058 Aspen Ave
Hill AFB, UT 84056-5805
DSN 586-4014

<https://367trss.hill.af.mil>

982 MXS/LGMS
912 I Ave Ste 4
Sheppard AFB, TX 76311-2334
DSN 736-3834

<https://www.my.af.mil/gcss-af/USAF/ep/globalTab.do?command=org&channelPageId=s6925EC134F0A0FB5E044080020E329A9>

Section D- MAJCOM Unique Requirements.

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

Combat Air Force (CAF):

<https://afkm.wpafb.af.mil/ASPs/CoP/OpenCoP.asp?Filter=OO-TE-AC-42>

Mobility Air Force (MAF):

<https://afkm.wpafb.af.mil/ASPs/docman/DOCMain.asp?Tab=0&FolderID=OO-ED-AM-91-2&Filter=OO-ED-AM-91>

Air Education and Training Command (AETC)/A4M CoP:

<https://wwd.my.af.mil/afknprod/ASPs/CoP/EntryCoP.asp?Filter=AE-ED-03-50>

Section E - Specialty Training Standard

11. Implementation. This STS will be used for technical training provided by Air Education and Training Command for the apprentice class beginning 4 Oct 2013 and graduating 16 Dec 2013.

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

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

12.2. Identifies in column 2 (Core Tasks) by asterisk (*), specialty-wide training requirements. MAJCOM Functional Managers, commanders, and supervisors may designate additional critical tasks as necessary. When designated, certify these core tasks using normal core task certification procedures. **AFCFM has identified 36 tasks that require third-party certification.** These tasks are identified with a bold border around the core task asterisk. Exemptions:

12.2.1. 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). Note: Five-levels can be qualified on 7-level core tasks at any point of the career ladder.

12.2.2. For units with more than one mission design (e.g. A-10, C-130) 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.

12.2.3. Unit's that use the GO81 maintenance data collection system do not need to complete IMDS Computer Based Training (CBT) core tasks. However, these units must be capable of training IMDS related CBT core tasks for deployment preparation. This capability ensures GO81 users are capable of operating IMDS prior to deploying to IMDS using units.

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

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

12.5. Is a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the Airman 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.

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

14. Job Qualification Standard. Becomes a job qualification standard (JQS) for on-the-job training when placed in AF Form 623, **Individual Training Record**, and used according to AFI

36-2201. For OJT, the tasks in column 1 are trained and qualified to the go/no go level. "Go" means the individual can perform the task without assistance and meets local requirements for accuracy, timeliness, and correct procedures. When used as a JQS, the following requirements apply:

14.1. Documentation. Document and certify completion of training IAW AFI 36-2201. Automated records, utilizing TBA reflecting this STS is mandatory.

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

15. Recommendations: Report unsatisfactory performance of individual course graduates to the AETC training manager at 359 TRS Det 1/TRR, 230 Chevalier Field Ave, NAS Pensacola FL 32508-5142, DSN 459-7477. Reference specific STS paragraphs. A customer service information line (CSIL) has 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 CSIL, DSN 736-5236, any time, day or night.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

JUDITH A FEDDER
Lieutenant General, USAF
DCS, Logistics, Installation and Mission Support

3 Attachments

1. Proficiency Code Key
2. Specialty Training Standard (STS)
3. 2AX7X CDC Training Standard

PROFICIENCY CODE KEY

CFETP 2A7X2, 1 October 2010

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

QUALITATIVE REQUIREMENTS

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

Explanations:

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

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

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

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



This mark is used to indicate third party certification requirements identified by the Career Field Manager.

SPECIALTY TRAINING STANDARD

CFETP 2A7X2, 1 October 2010

| 1. Tasks, Knowledge And Technical References | 2. Core Tasks | | 3. Certification For OJT | | | | | 4. Proficiency Codes Used to Indicate Training/Information Provided (See Atch 1) | | | | |
|---|---|---|--------------------------|----------|------------------|------------------|--------------------|--|----------|---|--------------------|--|
| | A | B | A | B | C | D | E | A 3 Skill Level | B CDC | | C 7 Skill Level | |
| | 5 | 7 | Tng Start | Tng Comp | Trainee Initials | Trainer Initials | Certifier Initials | Course | 5 | 7 | Course | |
| ATTACHMENT 2 | | | | | | | | | | | | |
| NOTE 1: Items in column 2A/2B marked with an asterisk (*) identify core tasks. | | | | | | | | | | | | |
| NOTE 2: All tasks and knowledge identified as training requirements in column 4A will be taught during wartime. | | | | | | | | | | | | |
| NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision. | | | | | | | | | | | | |
| NOTE 4: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 459-7477. | | | | | | | | | | | | |
| A1.1. | CAREER LADDER PROGRESSION TR: Air Force Enlisted Classification Directory (AFECD) | | | | | | | | | | | |
| A1.1.1. | Progression in Career Ladder 2A7X2 | | | | | | | - | B | - | - | |
| A1.1.2. | Duties of 2A732/2A752 | | | | | | | - | B | - | - | |
| A1.2. | OPERATIONS SECURITY VULNERABILITIES OF AFSC 2A7X2 TR: AFI 10-1101 | | | | | | | A | - | - | - | |
| A1.3. | AIR FORCE OCCUPATIONAL SAFETY AND HEALTH TR: AFI 91-203, 21-101 | | | | | | | | | | | |
| A1.3.1. | Hazards of AFSC 2A7X2 | | | | | | | A | B | - | - | |
| A1.3.2. | AFOSH Standard for AFSC 2A7X2 | | | | | | | - | B | - | - | |
| A1.3.3. | Maintenance Resource Management | | | | | | | A | - | - | - | |
| A1.4. | HAZARDOUS MATERIALS AND WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS TR: AFI 91-203 | | | | | | | | | | | |
| A1.4.1. | Types of Hazardous Materials/Fluids | | | | | | | B | A | - | - | |
| A1.4.2. | Handling Procedures | | | | | | | B | A | - | - | |
| A1.4.3. | Storage and Labeling | | | | | | | B | A | - | - | |
| A1.4.4. | Proper Disposal | | | | | | | B | A | - | - | |
| A1.5. | TECHNICAL PUBLICATIONS TR: AFPD 21-3; TO 00-5-1, Applicable -36 TOs; 33B-series TOs | | | | | | | | | | | |
| A1.5.1. | Technical Order Familiarization | | | | | | | - | B | - | - | |
| A1.5.2. | Use Technical Orders to Perform Nondestructive Inspections | | * | | | | | 2b | b | - | - | |
| A1.5.3. | Maintain Technical Order Files | | | | | | | - | b | - | - | |
| A1.6. | SUPPLY MANAGEMENT TR: AFMAN 23-110 ; Allowance Standards 002, 285, 455, 460; Fed Log; AFCSM 21-563 | | | | | | | | | | | |
| A1.6.1. | Special requisitions | | | | | | | - | A | - | - | |
| A1.6.2. | Issue slips | | | | | | | - | A | - | - | |
| A1.6.3. | Turn-in slips | | | | | | | - | A | - | - | |

SPECIALTY TRAINING STANDARD

CFETP 2A7X2, 1 October 2010

| 1. Tasks, Knowledge And Technical References | 2. Core Tasks | | 3. Certification For OJT | | | | | 4. Proficiency Codes Used to Indicate Training/Information Provided (See Atch 1) | | | |
|---|---------------|---|--------------------------|-------------|---------------------|---------------------|-----------------------|--|----------|---|-----------------------|
| | A | B | A | B | C | D | E | A 3 Skill Level | B CDC | | C 7 Skill Level |
| | 5 | 7 | Tng Start | Tng Comp | Trainee Initials | Trainer Initials | Certifier Initials | Course | 5 | 7 | Course |
| A1.6.4. Equipment Authorizations | | | | | | | | - | A | - | - |
| A1.6.5. Maintain Supply Documentation | | | | | | | | - | - | - | - |
| A1.6.6. Use IMDS/GO81 Supply Interface (SBSS) | | | | | | | | - | - | - | - |
| A1.6.7. Manage Resources | | | | | | | | | | | |
| A1.6.7.1. Maintain equipment accountability | | | | | | | | - | - | - | - |
| A1.6.7.2. Supplies | | | | | | | | | | | |
| A1.6.7.2.1. Issue | | | | | | | | - | - | - | - |
| A1.6.7.2.2. Establish levels | | | | | | | | - | - | - | - |
| A1.6.7.2.3. Maintain levels | | | | | | | | - | - | - | - |
| A1.7. SUPERVISION AND TRAINING TR: Air Force Enlisted Classification Directory (AFECD); AFI 21-101 | | | | | | | | | | | |
| A1.7.1. Supervise Personnel | | | | | | | | | | | |
| A1.7.1.1. Determine personnel requirements | | | | | | | | - | - | - | - |
| A1.7.1.2. Orient new personnel | | | | | | | | - | - | - | - |
| A1.7.1.3. Interpret/implement policies, directives or procedures for subordinates | | | | | | | | - | - | - | - |
| A1.7.2. Train Personnel | | | | | | | | | | | |
| A1.7.2.1. Determine training requirements | | | | | | | | - | - | - | - |
| A1.7.2.2. Assign OJT trainers or supervisors | | | | | | | | - | - | - | - |
| A1.7.2.3. Maintain records | | | | | | | | - | - | - | - |
| A1.7.2.4. OJT Trainer Requirements | | | | | | | | | | | |
| A1.7.2.4.1. Prepare teaching outlines or task breakdowns | | | | | | | | - | - | - | - |
| A1.7.2.4.2. Provide trainees theory and train on actual equipment | | | | | | | | - | - | - | - |
| A1.7.2.4.3. Provide feedback on training provided | | | | | | | | - | - | - | - |
| A1.7.2.5. OJT Task Certifier Requirements | | | | | | | | | | | |
| A1.7.2.5.1. Develop methods of evaluation to determine trainee knowledge/ qualification and training effectiveness | | | | | | | | - | - | - | - |
| A1.7.2.5.2. Use appropriate method of evaluation and effectively determine trainee's ability | | | | | | | | - | - | - | - |
| A1.7.2.5.3. Provide supervisor and trainer feedback on results of training provided, and trainee's strengths and/or weaknesses | | | | | | | | - | - | - | - |
| A1.7.3. Plan/Schedule Maintenance and Repair Work | | | | | | | | | | | |

SPECIALTY TRAINING STANDARD

CFETP 2A7X2, 1 October 2010

| 1. Tasks, Knowledge And Technical References | 2. Core Tasks | | 3. Certification For OJT | | | | | 4. Proficiency Codes Used to Indicate Training/Information Provided (See Atch 1) | | | |
|--|---------------|---|--------------------------|-------------|---------------------|---------------------|-----------------------|--|----------|---|-----------------------|
| | A | B | A | B | C | D | E | A 3 Skill Level | B CDC | | C 7 Skill Level |
| | 5 | 7 | Tng Start | Tng Comp | Trainee Initials | Trainer Initials | Certifier Initials | Course | 5 | 7 | Course |
| A1.7.3.1. Analyze workload requirements | | | | | | | | - | - | - | - |
| A1.7.3.2. Coordinate with other agencies | | | | | | | | - | - | - | - |
| A1.7.3.3. Determine/Establish priorities | | | | | | | | - | - | - | - |
| A1.7.3.4. Adjust daily maintenance plans to meet operational commitments | | | | | | | | - | - | - | - |
| A1.8. MAINTENANCE AND INSPECTION TR: AFI 21-101; AFI 21-202; TO 00-20 series; TO 00-35D-54 | | | | | | | | | | | |
| A1.8.1. Maintenance Levels | | | | | | | | - | B | - | - |
| A1.8.2. Inspection Systems | | | | | | | | - | B | - | - |
| A1.8.3. Scheduled/Special Inspection Requirements TR: -6 series TOs | | | | | | | | - | B | - | - |
| A1.8.4. Quality Deficiency Reporting System | | | | | | | | - | B | - | - |
| A1.8.5. Maintenance Information Systems (MIS) | | | | | | | | | | | |
| A1.8.5.1. Integrated Maintenance Data Systems (IMDS) | | | | | | | | - | B | - | - |
| A1.8.5.2. GO81 | | | | | | | | - | B | - | - |
| A1.8.6. IMDS TR: AFCSM 21 series; TO 00-20 series | | | | | | | | | | | |
| A1.8.6.1. Open/Create discrepancies | * | | | | | | | - | - | - | - |
| A1.8.6.2. Close discrepancies | * | | | | | | | - | - | - | - |
| A1.8.6.3. Access applicable IMDS menus and data screens for Backshop | * | | | | | | | - | - | - | - |
| A1.8.6.4. Access applicable IMDS menus and data screens for Supervisors | * | * | | | | | | - | - | - | - |
| A1.8.7. GO 81 TR: 80-81/SBSS Systems Interface Users Guide, TO 00-20 series | | | | | | | | | | | |
| A1.8.7.1. Open/Create discrepancies | * | | | | | | | - | - | - | - |
| A1.8.7.2. Close discrepancies | * | | | | | | | - | - | - | - |
| A1.8.7.3. Access applicable IMDS menus and data screens for Backshop | * | | | | | | | - | - | - | - |
| A1.8.7.4. Access applicable IMDS menus and data screens for Supervisors | | * | | | | | | - | - | - | - |
| A1.8.8. Process Control Automated Maintenance System (PCAMS)TR: TO 33B-1-1 | | | | | | | | - | A | - | - |
| A1.8.9. Use AFTO Form 244 TR: TO 00-20-1 | | | | | | | | - | B | - | - |

SPECIALTY TRAINING STANDARD

CFETP 2A7X2, 1 October 2010

| 1. Tasks, Knowledge And Technical References | 2. Core Tasks | | 3. Certification For OJT | | | | | 4. Proficiency Codes Used to Indicate Training/Information Provided (See Atch 1) | | | | |
|--|---------------|---|--------------------------|----------|------------------|------------------|--------------------|--|----------|---|--------------------|--|
| | A | B | A | B | C | D | E | A 3 Skill Level | B CDC | | C 7 Skill Level | |
| | 5 | 7 | Tng Start | Tng Comp | Trainee Initials | Trainer Initials | Certifier Initials | Course | 5 | 7 | Course | |
| A1.8.10. Composite Tool Kit (CTK) Management TR: AFI 21-101 and applicable supplements | | | | | | | | | | | | |
| A1.8.10.1. Use/maintain hand tools | | | | | | | | - | - | - | - | |
| A1.8.10.2. CTK procedures and documentation | | | | | | | | - | - | - | - | |
| A1.8.10.3. Use of tool accountability system TR: AFI 21-101 | | | | | | | | - | - | - | - | |
| A1.8.11. Probability of Detection (POD) fundamentals | | | | | | | | - | A | - | - | |
| A1.9. AEROSPACE CONSTRUCTION FEATURES TR: Applicable -3 and -36 TOs | | | | | | | | | | | | |
| A1.9.1. Major Components | | | | | | | | A | B | - | - | |
| A1.9.2. Reference Line Definitions | | | | | | | | A | B | - | - | |
| A1.9.3. Aircraft Markings | | | | | | | | A | B | - | - | |
| A1.10. BASIC METALLURGY TR: TOs 1-1A-1, 1-1A-9, 33B-1-1 | | | | | | | | | | | | |
| A1.10.1. Properties of Metal | | | | | | | | | | | | |
| A1.10.1.1. Physical | | | | | | | | A | B | - | - | |
| A1.10.1.2. Mechanical | | | | | | | | A | B | - | - | |
| A1.10.2. Classification of Metals | | | | | | | | A | B | - | - | |
| A1.10.3. Types of Discontinuities | | | | | | | | | | | | |
| A1.10.3.1. Manufacturing | | | | | | | | A | B | - | - | |
| A1.10.3.2. Service | | | | | | | | A | B | - | - | |
| A1.11. OPTICAL EVALUATION TR: Equipment manuals; Applicable TOs for aircraft assigned | | | | | | | | | | | | |
| A1.11.1. Use Optical Equipment | | | | | | | | | | | | |
| A1.11.1.1. Stereo zoom microscope | * | | | | | | | 2b | b | - | - | |
| A1.11.1.2. Magnifier | * | | | | | | | 2b | b | - | - | |
| A1.11.2. Operator Maintenance | | | | | | | | A | B | - | - | |
| A1.12. LIQUID PENETRANT INSPECTION METHOD TR: Equipment Manuals; Mil Standards; TO 33B-1-1; 33B-1-2; -9 Series TO , -36 Series TO; Applicable equipment TOs | | | | | | | | | | | | |
| A1.12.1. Fundamentals of Liquid Penetrant Inspection | | | | | | | | | | | | |
| A1.12.1.1. Method A | | | | | | | | B | A | - | - | |
| A1.12.1.2. Method B | | | | | | | | B | A | - | - | |

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|--|---------------|---|--------------------------|----------|------------------|------------------|--------------------|--|----------|---|--------------------|
| | A | B | A | B | C | D | E | A 3 Skill Level | B CDC | | C 7 Skill Level |
| | 5 | 7 | Tng Start | Tng Comp | Trainee Initials | Trainer Initials | Certifier Initials | Course | 5 | 7 | Course |
| A1.12.1.3. Method C | | | | | | | | B | B | - | - |
| A1.12.1.4. Method D | | | | | | | | B | B | - | - |
| A1.12.2. Inspect Parts Using | | | | | | | | | | | |
| A1.12.2.1. Method A | | | | | | | | - | | - | - |
| A1.12.2.2. Method B | | | | | | | | - | - | - | - |
| A1.12.2.3. Method C | * | | | | | | | 2b | b | - | - |
| A1.12.2.4. Method D | * | | | | | | | 2b | b | - | - |
| A1.12.3. Interpret indications | * | | | | | | | 2b | b | - | - |
| A1.12.4. Perform Process Control | * | | | | | | | 2b | b | - | - |
| A1.12.5. Operator maintenance | | | | | | | | A | B | - | - |
| A1.13. MAGNETIC PARTICLE INSPECTION METHOD TR: Equipment Manuals; Mil Standards; TO 33B-1-1; 33B-1-2; -9 Series TOs, -36 Series TOs; Applicable equipment TOs | | | | | | | | | | | |
| A1.13.1. Fundamentals of Magnetic Particle Inspection | | | | | | | | B | B | - | - |
| A1.13.2. Inspect Parts | | | | | | | | | | | |
| A1.13.2.1. Use circular magnetism | * | | | | | | | 2b | b | - | - |
| A1.13.2.2. Using longitudinal magnetism | * | | | | | | | 2b | b | - | - |
| A1.13.2.3. Demagnetize part | * | | | | | | | 2b | b | - | - |
| A1.13.3. Interpret indications | * | | | | | | | 2b | b | - | - |
| A1.13.4. Perform Process Control | * | | | | | | | 2b | b | - | - |
| A1.13.5. Operator maintenance | | | | | | | | A | B | - | - |
| A1.14. EDDY CURRENT INSPECTION METHOD TR: Equipment Manuals; Mil Standards; TO 33B-1-1; 33B-1-2; -9 Series TO, -36 Series TO; Applicable equipment TOs | | | | | | | | | | | |
| A1.14.1. Fundamentals of eddy current inspection | | | | | | | | B | B | - | - |
| A1.14.2. Use standards | * | | | | | | | 2b | b | - | - |
| A1.14.3. Principles of Impedance Plane Analysis | | | | | | | | B | B | - | - |
| A1.14.4. Inspect parts using | | | | | | | | | | | |
| A1.14.4.1 Rotary Fastener Scanner | * | | | | | | | 2b | b | - | - |
| A1.14.4.2. Impedance testing | | | | | | | | 2b | b | - | - |
| A1.14.4.3. Conductivity testing | * | | | | | | | 2b | b | - | - |

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|---|---------------|---|--------------------------|----------|------------------|------------------|--------------------|--|----------|---|--------------------|
| | A | B | A | B | C | D | E | A 3 Skill Level | B CDC | | C 7 Skill Level |
| | 5 | 7 | Tng Start | Tng Comp | Trainee Initials | Trainer Initials | Certifier Initials | Course | 5 | 7 | Course |
| A1.14.4.4. Impedance Plane Analysis | * | | | | | | | 2b | b | - | - |
| A1.14.5. Interpret indications using | | | | | | | | | | | |
| A1.14.5.1. Rotary Fastener Scanner | * | | | | | | | 2b | b | - | - |
| A1.14.5.2. Impedance testing | | | | | | | | 2b | b | - | - |
| A1.14.5.3. Impedance Plane Analysis | * | | | | | | | 2b | b | - | - |
| A1.14.6. Operator Maintenance | | | | | | | | A | B | - | - |
| A1.15. ULTRASONIC INSPECTION METHOD TR: Equipment Manuals; Mil Standards; TO 33B-1-1; 33B-1-2; -9 Series TO, -36 Series TO; Applicable equipment TOs | | | | | | | | | | | |
| A1.15.1. Fundamentals of Ultrasonics | | | | | | | | B | B | - | - |
| A1.15.2. Use Standards | * | | | | | | | 2b | b | - | - |
| A1.15.3. Inspect Parts Using: | | | | | | | | | | | |
| A1.15.3.1. Longitudinal wave | * | | | | | | | 2b | b | - | - |
| A1.15.3.2. Shear wave | * | | | | | | | 2b | b | - | - |
| A1.15.3.3. Surface wave | | | | | | | | - | a | - | - |
| A1.15.4. Interpret Indications | * | | | | | | | 2b | B | - | - |
| A1.15.5. Operator Maintenance | | | | | | | | A | B | - | - |
| A1.15.6. Perform Process Control | * | | | | | | | 2b | b | - | - |
| A1.16. BOND TESTING METHOD TR: Equipment manuals; Equipment TOs; TO 33B-1-1; -36 Series TO; Applicable equipment TOs | | | | | | | | | | | |
| A1.16.1. Fundamentals of Bond Testing | | | | | | | | B | B | - | - |
| A1.16.2. Use Standards | * | | | | | | | 2b | b | - | - |
| A1.16.3. Inspect Parts Using: | | | | | | | | | | | |
| A1.16.3.1. Tap test | | | | | | | | - | b | - | - |
| A1.16.3.2. Through transmission | * | | | | | | | 2b | b | - | - |
| A1.16.3.3. Pulse echo | * | | | | | | | 2b | B | - | - |
| A1.16.3.4. Mechanical Impedance Analysis (MIA) | * | | | | | | | 2b | b | - | - |
| A1.16.3.5. Resonance | * | | | | | | | 2b | b | - | - |
| A1.16.3.6. Pitch-Catch | * | | | | | | | 2b | b | - | - |
| A1.16.4. Interpret Indications | * | | | | | | | 2b | b | - | - |
| A1.16.5. Operator Maintenance | | | | | | | | A | B | - | - |

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|--|---------------|---|--------------------------|----------|------------------|------------------|--------------------|--|----------|---|--------------------|--|
| | A | B | A | B | C | D | E | A 3 Skill Level | B CDC | | C 7 Skill Level | |
| | 5 | 7 | Tng Start | Tng Comp | Trainee Initials | Trainer Initials | Certifier Initials | Course | 5 | 7 | Course | |
| A1.17. COMPOSITE COMPONENT INSPECTION METHOD TR: Mil Stds; TO 33B-1-1; -36 Series TO; Applicable equipment TOs | | | | | | | | | | | | |
| A1.17.1. Fundamentals of Composite Structures | | | | | | | | B | B | - | - | |
| A1.17.2. Use Standards | * | | | | | | | 2b | b | - | - | |
| A1.17.3. Inspect Parts Using: | | | | | | | | | | | | |
| A1.17.3.1. Pulse echo | * | | | | | | | 2b | b | - | - | |
| A1.17.3.2. Through transmission | * | | | | | | | 2b | b | - | - | |
| A1.17.4. Interpret Indications | * | | | | | | | 2b | b | - | - | |
| A1.18. RADIOGRAPHIC INSPECTION METHOD TR: Applicable AFIs; TO 33B-1-1; 33B-1-2; -36 TOs; Applicable equipment TOs | | | | | | | | | | | | |
| A1.18.1. Fundamentals of Radiography | | | | | | | | B | B | - | - | |
| A1.18.2. Radiation Safety | | | | | | | | | | | | |
| A1.18.2.1. Shielded operation | | | | | | | | | | | | |
| A1.18.2.1.1. Personnel exposure levels | | | | | | | | B | B | - | - | |
| A1.18.2.1.2. Use radiation detection devices | * | | | | | | | 2c | c | - | - | |
| A1.18.2.1.3. Protection requirements | | | | | | | | B | B | - | - | |
| A1.18.2.1.4. Use radiation hazard markings/warning devices | * | | | | | | | 2c | c | - | - | |
| A1.18.2.2. Unshielded operations | | | | | | | | | | | | |
| A1.18.2.2.1. Personnel exposure levels | | | | | | | | B | B | - | - | |
| A1.18.2.2.2. Use radiation detection devices | * | | | | | | | 2c | c | - | - | |
| A1.18.2.2.3. Protection requirements | | | | | | | | B | B | - | - | |
| A1.18.2.2.4. Use radiation hazard markings/warning devices | * | | | | | | | 2c | c | - | - | |
| A1.18.3. Fundamentals of Silver Recovery | | | | | | | | A | B | - | - | |
| A1.18.4. Precious Metals Recovery Program | | | | | | | | A | B | - | - | |
| A1.18.5. Inspect Parts | | | | | | | | | | | | |
| A1.18.5.1. Set up equipment/film | * | | | | | | | 2b | b | - | - | |
| A1.18.5.2. Film Selection | | | | | | | | A | B | - | - | |
| A1.18.5.3. Use image quality indicators | | | | | | | | 2b | b | - | - | |
| A1.18.5.4. Use image quality enhancers | | | | | | | | 2b | b | - | - | |
| A1.18.5.5. Make exposure corrections | | | | | | | | 2b | b | - | - | |
| A1.18.5.6. Develop film | * | | | | | | | 2b | b | - | - | |
| A1.18.5.7. Perform exposures | * | | | | | | | 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 Atch 1) | | | |
|---|---------------|---|--------------------------|----------|------------------|------------------|--------------------|--|----------|---|--------------------|
| | A | B | A | B | C | D | E | A 3 Skill Level | B CDC | | C 7 Skill Level |
| | 5 | 7 | Tng Start | Tng Comp | Trainee Initials | Trainer Initials | Certifier Initials | Course | 5 | 7 | Course |
| A1.18.6. Interpret Indications | | | | | | | | | | | |
| A1.18.6.1 Cracks | * | | | | | | | 2b | a | - | - |
| A1.18.6.2 Water Entrapment | * | | | | | | | 2b | a | - | - |
| A1.18.6.3 Foreign Objects | * | | | | | | | 2b | a | - | - |
| A1.18.6.4 Corrosion | * | | | | | | | B | A | - | - |
| A1.18.6.5 Weld Certification Specimens Ref TO 00-25-252 | | * | | | | | | - | a | - | - |
| A1.18.7. Operator Maintenance | | | | | | | | A | B | - | - |
| A1.18.8. Perform Process Control | * | | | | | | | 2b | b | - | - |
| A1.19. COMPUTED RADIOGRAPHY | | | | | | | | | | | |
| A1.19.1. Fundamentals | | | | | | | | A | B | - | - |
| A1.19.2. Operate Equipment | * | | | | | | | - | b | - | - |
| A1.19.3. Interpret Indications | | | | | | | | | | | |
| A1.19.3.1. Cracks | * | | | | | | | - | a | - | - |
| A1.19.3.2. Water Entrapment | * | | | | | | | - | a | - | - |
| A1.19.3.3. Foreign Objects | * | | | | | | | - | a | - | - |
| A1.19.3.4. Corrosion | * | | | | | | | - | a | - | - |
| A1.19.3.5. Weld Certification Specimens Ref TO 00-25-252 | | * | | | | | | - | a | - | - |
| A1.19.4. Operator Maintenance | | | | | | | | - | - | - | - |
| A1.19.5. Perform Process Control | * | | | | | | | - | b | - | - |
| A1.19.6. OTHER INSPECTION METHODS | | | | | | | | | | | |
| A1.19.6.1. Infrared Thermography | | | | | | | | - | A | - | - |
| A1.19.6.2. Shearography | | | | | | | | - | A | - | - |
| A1.19.6.3. Magneto Optic Inspection (MOI) | | | | | | | | - | A | - | - |
| A1.19.6.4. Mobile Automated Scanner Systems (MAUSS) | | | | | | | | - | A | - | - |
| A1.20. TECHNIQUE DEVELOPMENT TR: TO 33B-1-1, AFTO 242 | | | | | | | | | | | |
| A1.20.1. Select Inspection Method | | * | | | | | | - | b | - | - |
| A1.20.2. Develop Inspection Method | | * | | | | | | - | b | - | - |
| A1.20.3. Record Inspection Technique | | * | | | | | | - | b | - | - |
| A1.21. SPECTROMETRIC OIL ANALYSIS TR: AF1 21-124; TOs 33-1-37, applicable equipment TOs | | | | | | | | | | | |
| A1.21.1. Aircraft Engine Familiarization | | | | | | | | - | - | - | - |
| A1.21.2. Fundamentals of Oil Analysis | | | | | | | | B | B | - | - |

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|---|---------------|---|--------------------------|----------|------------------|------------------|--------------------|--|----------|---|--------------------|
| | A | B | A | B | C | D | E | A 3 Skill Level | B CDC | | C 7 Skill Level |
| | 5 | 7 | Tng Start | Tng Comp | Trainee Initials | Trainer Initials | Certifier Initials | Course | 5 | 7 | Course |
| A1.21.3. Standardize Atomic Emission (AE) Spectrometer | * | | | | | | | 2b | b | - | - |
| A1.21.4. Operate Atomic Emission (AE) Spectrometer | * | | | | | | | 2b | b | - | - |
| A1.21.5. Evaluate Trends | * | | | | | | | 2b | b | - | - |
| A1.21.6. Fundamentals of Data Automation | | | | | | | | A | B | - | - |
| A1.21.7. Perform Operator Maintenance on Atomic Emission (AE) Spectrometer | * | | | | | | | 2b | b | - | - |
| A1.21.8. Fundamentals of the Correlation Program | | | | | | | | B | B | - | - |
| A1.21.9. Analyze Correlation Samples | * | | | | | | | - | b | - | - |
| A1.21.10. Prepare Correlation Results | * | | | | | | | - | b | - | - |
| A1.21.11. Analyze Deployment Kits | * | | | | | | | - | b | - | - |
| A1.21.12. Certification Program TR: TOs 33-1-37-1 and 33-1-37-2 | | | | | | | | B | B | - | - |
| A1.21.13 SEM/EDX Equipment TR: TO 33D4-6-802-CD-1 (JetSCAN); TO 33D4-6-804-1-CD-1 (ASPEX) | | | | | | | | | | | |
| A1.21.13.1. SEM/EDX Fundamentals TR: TO 33D4-6-802-CD-1 (JetSCAN); TO 33D4-6-804-1-CD-1 (ASPEX) | | | | | | | | - | A | - | - |
| A1.21.13.2. Operate JetSCAN | * | | | | | | | - | - | - | - |
| A1.21.13.3. Operate ASPEX | * | | | | | | | - | - | - | - |
| A1.21.13.4. JetSCAN Operator Maintenance | * | | | | | | | - | - | - | - |
| A1.21.13.5. ASPEX Operator Maintenance | * | | | | | | | - | - | - | - |
| A2.22. GENERAL MAINTENANCE/ PRODUCTION TEAM TASKS TR: Applicable Aircraft TOs | | | | | | | | | | | |
| A2.22.1. Flightline/Safety/Precautions/Security | | | | | | | | - | - | - | - |
| A2.22.2. Introduction to Aircraft/Airframe Familiarization/Egress | | | | | | | | - | - | - | - |
| A2.22.3. Inspect/Use Ground Maintenance Stand | | | | | | | | - | - | - | - |
| A2.22.4. Dropped Object Prevention Program (DOPP) | | | | | | | | - | - | - | - |
| A2.22.5. Defensive System (DS) familiarization (on applicable aircraft) | | | | | | | | - | - | - | - |
| A2.22.6. Statically Ground Aircraft | | | | | | | | - | - | - | - |
| A2.22.7. Inspect/Operate Portable External Electrical Power Unit | | | | | | | | - | - | - | - |

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|--|---------------|---|--------------------------|-------------|---------------------|---------------------|-----------------------|--|----------|---|-----------------------|
| | A | B | A | B | C | D | E | A 3 Skill Level | B CDC | | C 7 Skill Level |
| | 5 | 7 | Tng Start | Tng Comp | Trainee Initials | Trainer Initials | Certifier Initials | Course | 5 | 7 | Course |
| A2.22.8. Apply/Disconnect External Electrical Power | | | | | | | | - | - | - | - |
| A2.23. TOW AIRCRAFT | | | | | | | | | | | |
| A2.23.1. Perform Wing/Tail Walker Duties | | | | | | | | - | - | - | - |
| A2.23.2. Brake Operator | | | | | | | | - | - | - | - |
| A2.24. PERFORM REFUEL/DEFUEL TEAM MEMBER DUTIES | | | | | | | | | | | |
| A2.24.1. Fireguard | | | | | | | | - | - | - | - |
| A2.24.2. Panel Operator | | | | | | | | - | - | - | - |
| A2.24.3. Open and Close Engine Cowling | | | | | | | | - | - | - | - |
| A2.24.4. Remove/Install Aircraft Maintenance Access Panels | | | | | | | | - | - | - | - |
| A2.24.5. Use Aircraft Interphone System | | | | | | | | - | - | - | - |
| A2.24.6. Perform Aircraft Marshaling Procedures | | | | | | | | - | - | - | - |
| A2.25. AIRCRAFT SAFE FOR MAINTENANCE | | | | | | | | - | - | - | - |
| A2.26 WEAPONS SAFETY | | | | | | | | - | - | - | - |

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2AX7X Specialty Training Standard

AEROSPACE MAINTENANCE CRAFTSMAN

| 1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES | 4. Proficiency Codes Used To Indicate Training/Information Provided (See Note) | | | |
|--|---|-----------------------|--------------------|------------|
| | A 3 Skill Level | B 5 Skill Level | C 7 Skill Level | |
| | (1) Crse | (1) CDC | (1) Crse | (2) CDC |
| NOTE 1: Users are responsible for annotating training references to identify current references pending STS revision. | | | | |
| NOTE 2: This attachment is to be used in conjunction with other attachments in applicable CFETPs. | | | | |
| NOTE 3: Personnel must complete CDC requirements on all MDSs/attachments. | | | | |
| NOTE 4: This attachment is to be used as a correlation document for the 2AX7X 7-level Aerospace Maintenance Craftsman CDC's. | | | | |
| NOTE 5: All items are SUBJECT KNOWLEDGE LEVELS only and require no certification on this STS. | | | | |
| AA.1. | MAINTENANCE PHILOSOPHY AND POLICY | | | |
| AA.1.1. | Aircraft and Equipment Readiness TR: AFI 21-101 and Repair Enterprise 21 Fact Sheet (https://acc.dau.mil/CommunityBrowser.aspx?id=32781) | | | A |
| AA.1.2. | Maintenance Concept TR: AFI 21-101 and AFI 21-129 | | | A |
| AA.1.3. | Reliability and Maintainability (R&M) TR: AFI 21-101, AFI 21-118 and TO 00-35D-54. | | | A |
| AA.1.4. | Operating Instructions (OI) TR: AFI 21-101 and AFI 33-360 | | | A |
| AA.1.5. | Support Agreements (SA) TR: AFI 21-101 and AFI 25-201 | | | A |
| AA.1.6. | Modification and Configuration Management TR: AFI 21-101 | | | A |
| AA.1.7. | Maintenance Information Systems (MIS) TR: AFI 21-101, AFI 21-116, AFCSM 21-556 volume 2, and TO 00-20-2 | | | B |
| AA.1.8. | Maintenance Performance Indicator Metrics and Health of the Fleet TR: AFI 21-101 and AFI 21-103 | | | B |
| AA.1.9. | Personnel Utilization TR: AFI 21-101 | | | A |
| AA.1.10. | Maintenance Repair Priorities TR: AFI 21-101 | | | A |
| AA.1.11. | Minimum Essential System Listing (MESL) TR: AFI 21-101 and AFI 21-103 | | | A |
| AA.1.12. | Status of Resources and Training System (SORTS), and AEF Reporting Tool (ART) TR: AFI 10-201, AFI 10-244 and https://aefcenter.afpc.randolph.af.mil/ | | | A |
| AA.1.13. | Historical Aircraft and Equipment Records TR: AFI 21-101 and T.O. 00-20-1 | | | A |
| AA.1.14. | Maintenance Scheduling Effectiveness TR: AFI 21-101 | | | A |
| AA.2. | MAINTENANCE ORGANIZATION KEY LEADER RESPONSIBILITIES | | | |
| AA.2.1. | Wing Commander (WG/CC) TR: AFI 21-101 and AFI 38-101 | | | A |
| AA.2.2. | Wing Vice Commander (WG/CV) TR: AFI 21-101 and AFI 38-101 | | | A |
| AA.2.3. | Maintenance Group Commander (MXG/CC) TR: AFI 21-101 and AFI 38-101 | | | A |
| AA.2.4. | Maintenance Group Deputy Commander (MXG/CD) TR: AFI 21-101 | | | A |
| AA.2.5. | MXG Superintendent (SUPT) TR: AFI 21-101 | | | A |

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| 1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES | | 4. Proficiency Codes Used To Indicate Training/Information Provided (See Note) | | | |
|--|---|--|--------------------|--------------------|------------|
| | | A 3 Skill Level | B 5 Skill Level | C 7 Skill Level | |
| | | (1) Crse | (1) CDC | (1) Crse | (2) CDC |
| AA.2.6. | Squadron Commander (SQ/CC) Responsibilities TR: AFI 21-101 | | | | A |
| AA.2.7. | Operations Officer and Maintenance Superintendent (MX SUPT) Responsibilities TR: AFI 21-101 | | | | A |
| AA.2.8. | Flight Commander/Flight Chief TR: AFI 21-101 | | | | A |
| AA.2.9. | AMU OIC/Superintendent (SUPT) TR: AFI 21-101 | | | | A |
| AA.2.10. | Section NCOIC TR: AFI 21-101 | | | | A |
| AA.2.11. | Production Superintendent (Pro Super) TR: AFI 21-101 | | | | A |
| AA.2.12. | Expediter TR: AFI 21-101 | | | | B |
| AA.3. | FUNCTIONS OF MAINTENANCE OPERATIONS SQUADRON (MOS) TR: AFI 21-101 and AFI 38-101 | | | | |
| AA.3.1. | Maintenance Operations Flight (MOF) TR: AFI 21-101 | | | | A |
| AA.3.2. | Maintenance Training Flight (MTF) TR: AFI 21-101 and AFI 36-2232 | | | | A |
| AA.3.3. | Programs and Resources Flight TR: AFI 21-101 | | | | A |
| AA.3.4. | Quality Assurance (QA) Flight TR: AFI 21-101 | | | | A |
| AA.4. | FUNCTIONS OF AIRCRAFT/HELICOPTER MAINTENANCE SQUADRON (AMXS/HMXS) TR: AFI 21-101 and AFI 38-101 | | | | |
| AA.4.1. | Aircraft Maintenance Unit (AMU) TR: AFI 21-101 | | | | A |
| AA.4.2. | Aircrew and Maintenance Debrief Section TR: AFI 21-101 | | | | A |
| AA.4.3. | Aircraft Section TR: AFI 21-101 | | | | A |
| AA.4.4. | Specialist Section TR: AFI 21-101 | | | | A |
| AA.4.5. | Weapons Section TR: AFI 21-101 | | | | A |
| AA.4.6. | Plans, Scheduling and Documentation Section (PS&D) TR: AFI 21-101 | | | | A |
| AA.4.7. | Support Section TR: AFI 21-101 | | | | A |
| AA.5. | FUNCTIONS OF MAINTENANCE SQUADRON (MXS) TR: AFI 21-101 and AFI 38-101 | | | | |
| AA.5.1. | Accessories Flight TR: AFI 21-101 | | | | A |
| AA.5.2. | Aerospace Ground Equipment (AGE) Flight TR: AFI 21-101 | | | | A |
| AA.5.3. | Armament Flight TR: AFI 21-101 | | | | A |
| AA.5.4. | Avionics Flight TR: AFI 21-101 | | | | A |
| AA.5.5. | Fabrication Flight TR: AFI 21-101 | | | | A |

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|--|--|--|--------------------|--------------------|------------|
| | | A 3 Skill Level | B 5 Skill Level | C 7 Skill Level | |
| | | (1) Crse | (1) CDC | (1) Crse | (2) CDC |
| AA.5.6. | Maintenance Flight TR: AFI 21-101 | | | | A |
| AA.5.7. | Munitions Flight TR: AFI 21-101 and AFI 21-201 | | | | A |
| AA.5.8. | Propulsion Flight TR: AFI 21-101 | | | | A |
| AA.5.9. | Test, Measurement, and Diagnostic Equipment (TMDE) Flight TR: AFI 21-101 | | | | A |
| AA.6. | AIR FORCE MATERIEL COMMAND RESPONSIBILITIES | | | | |
| AA.6.1. | Air Logistics Centers (ALC) TR: AFMCMC (Mission Directives) 406, 407 and 410. Located at: https://www.afmc-mil.wpafb.af.mil/pdl/afmc/md.htm , OO-ALC Brochure located at: http://www.hill.af.mil/main/index.html , WR-ALC: http://www.robins.af.mil/units/402mw.asp and OC-ALC: http://www.tinker.af.mil/units/ | | | | A |
| AA.6.2. | Air Force Flight Test Center/Air Armament Center TR: AFMCMC 404 located at: https://www.afmc-mil.wpafb.af.mil/pdl/afmc/md.htm and Flight Test Center Fact Sheet locate at: http://www.edwards.af.mil/library/factsheets/factsheet_print.asp?fsID=6573&page=1 | | | | A |
| AA.6.3. | Aerospace Maintenance and Regeneration Center (AMARC) TR: AFMCMC 415 located at: https://www.afmc-mil.wpafb.af.mil/pdl/afmc/md.htm and http://www.dm.af.mil/units/amarc.asp | | | | A |
| AA.7. | MAINTENANCE TRAINING | | | | |
| AA.7.1 | Types of Training TR: AFI 36-2232 and the ETCA site located at: https://etca.randolph.af.mil/ | | | | A |
| AA.7.2. | Training Documentation TR: AFI 36-2232, AFI 21-101, and AFI 36-2201 | | | | A |
| AA.7.3. | Special Certification Rosters TR: AFI 21-101 | | | | A |
| AA.7.4. | Maintenance Qualification Program (MQP) TR: AFI 36-2232, AFI 21-101 and AFD 10-9. | | | | A |
| AA.7.5. | Training Forecast / Request TR: AFI 36-2232 and AFI 21-101 | | | | A |
| AA.7.6. | Training Development Process TR: AFI 36-2232, AFI 21-101, and AETCI 36-2601 | | | | A |
| AA.8. | PERSONNEL RESOURCE MANAGEMENT | | | | |
| AA.8.1. | Capability Based Manpower Standard and Logistics Composite Model (LCOM) TR: AFMAN 38-208 Volume 3, AFI 38-201, AFI 21-101 and AFTTP 3-21.1 | | | | A |
| AA.8.2. | Unit Manpower Document (UMD) and Unit Personnel Manpower Roster (UPMR) TR: AFI 38-201, AFTTP 3-21.1 and AFI 36-2110 | | | | A |
| AA.9. | MAINTENANCE SUPPLY | | | | |
| AA.9.1. | Logistics Readiness Squadron (LRS) Supply Support TR: AFI 21-101, AFMAN 23-110 (vol. 1) and AFTTP 3-21.1 | | | | A |
| AA.9.2. | Readiness Spares Packages TR: AFMAN 23-110, AFI 21-101 and AFTTP 3-21.1 | | | | A |
| AA.9.3. | Consumables Management TR: AFI 21-101, AFTTP 3-21.1 and AFMAN 23-110 | | | | A |
| AA.9.4. | Equipment Items TR: AFI 21-101, AFMAN 23-110 and AFMAN 23-220 | | | | A |

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|--|---|--|--------------------|--------------------|------------|
| | | A 3 Skill Level | B 5 Skill Level | C 7 Skill Level | |
| | | (1) Crse | (1) CDC | (1) Crse | (2) CDC |
| AA.9.5. | Special Purpose Recoverable Authorized Maintenance (SPRAM) Assets TR: AFI 21-101, AFMAN 23-110 and AFI 21-103 | | | | A |
| AA.9.6. | Supply Assets Requiring Functional Check, Calibration, or Operational Flight Programming TR: AFI 21-101 and AFMAN 23-110 | | | | A |
| AA.9.7. | Precious Metals Recovery Program TR: AFMAN 23-110 and AFI 21-101 | | | | A |
| AA.9.8. | Supply Points TR: AFI 21-101 and AFMAN 23-110 | | | | A |
| AA.9.9. | Local Manufacture TR: AFI 21-101 | | | | A |
| AA.9.10. | Repair Cycle Assets / Supply Management Products TR: AFI 23-110 and AFI 21-101 | | | | A |
| AA.9.11. | Tail Number Bins (TNB) TR: AFI 21-101 | | | | A |
| AA.9.12. | Maintenance Repair / Supply Delivery Priorities TR: AFI 21-101 | | | | A |
| AA.9.13. | Classified Assets TR: AFI 21-101 and TO 00-20-1 | | | | A |
| AA.9.14. | Hazardous Materials TR: AFI 90-821, AFI 32-7086 and AFI 21-101 | | | | A |
| AA.9.15. | Supply Deficiency and Discrepancy Reporting TR: AFI 23-110 and AFI 21-101 | | | | B |
| AA.10. | TECHNICAL ORDER POLICY TR: TO 00-5-1, AFI 21-101, AFI 21-303 | | | | |
| AA.10.1. | Use of Technical Orders (TO), TO Supplements and Publications TR: AFI 21-101, 21-303 and AFTTP 3-21.1 | | | | A |
| AA.10.2. | Technical Order Change Process TR: AFI 21-303 | | | | A |
| AA.10.3. | Technical Order Waivers TR: AFI 21-303 and AFI 21-101 | | | | A |
| AA.11. | MAINTENANCE REQUIREMENTS AND PROGRAMS | | | | |
| AA.11.1. | Cannibalization Program TR: AFI 21-101 and AFTTP 3-21.1 | | | | A |
| AA.11.2. | Restricted Maintenance Areas TR: AFI 21-101 | | | | A |
| AA.11.3. | Red Ball Maintenance TR: AFI 21-101 and AFTTP 3-21.1 | | | | A |
| AA.11.4. | Aircraft/Equipment Impoundment Program TR: AFI 21-101 | | | | A |
| AA.11.5. | Maintenance Standardization and Evaluation Program (MSEP) Purpose and Inspection Types TR: AFI 21-101 and AFTTP 3-21.1 | | | | B |
| AA.11.6. | Foreign Object Damage (FOD) Program TR: AFI 21-101, AFI 36-2232 and AFTTP 3-21.1 | | | | A |
| AA.11.7. | Dropped Object Prevention (DOP) Program TR: AFI 21-101 | | | | A |
| AA.11.8. | Tool Management TR: AFI 21-101 and AFTTP 3-21.1 | | | | A |
| AA.11.9. | Tool Accountability TR: AFI 21-101 and AFTTP 3-21.1 | | | | A |
| AA.11.9.1. | Marking and Tool Identification TR: AFI 21-101 | | | | A |

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| | (1) Crse | (1) CDC | (1) Crse | (2) CDC |
| AA.11.9.2. Locally Manufactured, Developed, or Modified Tools and Equipment TR: AFI 21-101 | | | | A |
| AA.11.9.3. Lost Item/Tool Procedures TR: AFI 21-101 | | | | A |
| AA.11.10. Maintenance Recovery Team TR: AFI 21-101 | | | | A |
| AA.11.11. Aging Aircraft / Equipment Issues TR: AFI 21-101, DoD 5010.12-M and DMSMS Guide Book (SD-22) | | | | A |
| AA.11.12. Quality Assurance Evaluators TR: AFI 21-101 and AFTTP 3-21.1 | | | | A |
| AA.11.13. Computer Applications TR: AF Portal, AF E-Publishing site, AF IT E-Learning site, Advanced Distributed Learning Services (ADLS) site, AF Center of Excellence for Knowledge Management (AFKM) site, Defense Travel System (DTS) training site, Air & Space Expeditionary Force Center site and the AF Center for Electronic Distribution of Systems (AFCEDS) site | | | | A |
| AA.11.14. Mobility TR: AFTTP 3-21.1, AFI 10-403, AFI 21-101, and the AFMAN 10-100 (Airman's Manual) | | | | A |
| AA.11.15. Crashed Damaged or Disabled Aircraft Recovery (CDDAR) Program TR: AFI 21-101 | | | | A |