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CFETP 2R0X1  
Parts I and II  
1 Aug 2021

Corrective Action  
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**AFSC 2R0X1**

**MAINTENANCE MANAGEMENT  
ANALYSIS SPECIALTY**

**CAREER FIELD EDUCATION  
AND TRAINING PLAN**

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**RELEASABILITY:** There are no releasability restrictions on this publication.

## ***SUMMARY OF CHANGES***

This publication has been substantially revised and must be completely reviewed in its entirety. Significant changes include the addition of the 2R0X1 Enlisted Career Path, additional supplemental courses and post graduate opportunities. Part II changes include the removal of obsolete IMDS tasks, the addition of data visualization and statistical programming tools, changing from the 12-step analysis process to the eight step problem solving method, and specific Excel features.

## ***CORRECTIVE ACTIONS***

This corrective action corrects the course numbers and implementation in Part II, paragraph 14. Additionally, training references were added to tasks. Task 9.1.23, Mean Time Between Critical Failure was removed and Task 9.1.24, Mean Time Between Maintenance Actions was renamed to Mean Time Between Maintenance Events. Tasks 9.2.12 – 9.2.14, and 12.2.13.6. were deleted and DB Query replaced LAF/FIQ in Task 12.2.13.8. Lastly, tasks were renumbered and regrouped as necessary.

CAREER FIELD EDUCATION AND TRAINING PLAN  
MAINTENANCE MANAGEMENT ANALYSIS SPECIALTY  
AFSC 2R0X1

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**CAREER FIELD EDUCATION AND TRAINING PLAN  
MAINTENANCE MANAGEMENT ANALYSIS SPECIALTY  
AFSC 2R0X1**

**PART I**

*Preface*

1. This Career Field Education and Training Plan (CFETP) for AFSC 2R0X1, Maintenance Management Analysis Specialty is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources, and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and will instill rigor in all aspects of career field training. A copy of the current CFETP is available for review/download at <http://www.e-publishing.af.mil/>. This CFETP was developed in accordance with the requirements in AFI 36-2670, *Total Force Development*. This publication is applicable to the entire Department of the Air Force (DAF), including all uniformed members of the Regular Air Force, the United States Space Force, the Air Force Reserve, and the Air National Guard.

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

2. The CFETP consists of two parts; supervisors 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. Some examples are funds, manpower, equipment, and facilities.

2.2. Part II includes the following: Section A contains the course objective list and training standards supervisors use to determine if Airmen have satisfied Air Education and Training Command (AETC) training requirements. Section B identifies available support materials. An example is a Qualification Training Package (QTP) developed to support proficiency training. Section C identifies a training course index supervisors use to determine resources available to support training; included here are both mandatory and optional courses. Section D identifies MAJCOM unique training requirements supervisors use to determine additional training requirement unique to the MAJCOM. Section E identifies the Specialty Training Standard (STS) and includes duties, tasks, and technical references to support training; AETC conducted training; wartime course requirements; core tasks; and correspondence course requirements.

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. At unit level, supervisors and trainers will use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

## ***ABBREVIATIONS / TERMS EXPLAINED***

**Advanced Training (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. 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, eliminate duplication, and ensure this training is budget defensible.

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

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

**Continuation Training:** Additional training exceeding requirements with emphasis on present or future duty assignments.

**Core Task:** A task Air Force Career Field Managers (AFCFMs) identify as a minimum qualification requirement within an Air Force Specialty regardless of duty position.

**Course Objective List (COL):** A publication identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3-, 5-, and 7-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations in accordance with AFI 36-2670, *Total Force Development*.

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

**Critical Task:** Additional tasks, identified by MAJCOM Functional Managers, commanders, and supervisors as being required for skill-level upgrade training. When designated, certify these core tasks using normal core task certification procedures.

**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):** 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 resident course, which 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.

**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 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, and 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 the Air Education and Training Command and the functional user to show which of the overall training requirements for an Air Force Specialty Code are taught in formal schools, career development courses, and exportable courses.

**Training Business Area (TBA):** Automated training records management system used by the AF/A4 community.

**Upgrade Training (UGT):** A mixture of mandatory courses, task qualification, QTPs, and CDCs required for award of the 3-, 5-, 7-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.

## ***Section A - General Information***

**1. Purpose of the CFETP.** This CFETP provides information necessary for 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 2R0X1 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. Normally, this training is conducted by AETC at one or more of the technical training wings. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 3-, 5-, 7-, 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 and knowledge required to do the job. Advanced training is formal specialty training for selected Airmen. Proficiency training is additional training, either in-residence, 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.** 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 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.** Lists training courses available in the specialty, 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.** The CFETP 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, field 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 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 training to support this AFS is identified for inclusion into 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 lists of courses in Part II will be used as a reference to support training.



**3. Coordination and Approval.** The AFCFM is the approval authority. MAJCOM representatives and AETC training personnel will identify and coordinate on the career field training requirements. The AETC training manager for this specialty will initiate an annual review of this document by AETC and MFMs to ensure currency and accuracy. Use the list of courses in Part II to eliminate duplicate training.

### ***Section B – Air Force Specialty Progression and Information***

#### **4 Specialty Description.**

**4.1. Specialty Summary.** Central Agency for monitoring and developing strategies for aircraft and equipment management to sustain the health of the fleet. Initiates studies and investigations, and performs statistical analysis. Provides findings and recommendations to managers and senior leaders. Presents information to help senior leadership assess the health of the units' weapon systems and equipment. Informs managers of significant factors affecting the mission and unit readiness. Manages and operates maintenance management information systems (MIS).

Related DoD Occupational Subgroup: 155800.

**4.2. Duties and Responsibilities.** Refer to the Air Force Enlisted Classification Directory (AFECD).

Analyzes deficiencies in areas such as equipment performance, materiel consumption, scheduling, management, and resources; their impact on the maintenance mission; and results of corrective actions. Collects and maintains maintenance information system data for use in analysis reports, studies, and problem identification. Periodically audits source data for accuracy, timeliness, and compliance with directives. Uses statistical techniques, interprets findings from data, identifies trends and significant deviations, and recommends corrective action. Coordinates with maintenance agencies on fleet health issues (*i.e.*, PS&D, MOC, Engine Management). Prepares visual media for analysis studies. Prepares written reports and special studies, and presents recommendations and briefings to senior leaders.

**4.2.1.** Controls, manages, and maintains MISs. Coordinates, develops, and schedules MIS products, retrievals, and other programs. Identifies problems and corrective actions related to MIS operation and maintenance. Coordinates with appropriate information management and processing centers to ensure automated systems capability and compatibility with customer requirements are met. Focal point to validate and track MIS requirements and enhancements for higher headquarters approval.

#### **5 Skill/Career Progression**

**5.1.** 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 for everyone involved in training to do his or her 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 2R0X1 Career Field tables identify the skill/career progression.

**5.2. Apprentice (3) Level.** Following Basic Military Training, initial skills training will be provided to members in a resident course at the 82d Training Wing, Sheppard AFB TX. The course will lay the foundation for additional training at the graduate's first duty assignment. Trainees will utilize the Career Development Course (CDC), and task qualification training to progress in their career field. Upon completion of CDC 2R051 and Air Force core task qualifications, the trainee should complete other available duty position training.

**5.3 Journeyman (5) Level.** Once upgraded to the 5-level, the journeyman will enter into continuation training that will broaden their experience base by increasing their knowledge and skill in troubleshooting and solving more complex problems. Journeymen may be assigned job positions such as maintenance management analyst (MMA), database manager (DBM), aircraft maintenance unit (AMU) analyst, wing analyst, Cyber/Space/Communication Systems analyst and various staff positions. They will attend Airman Leadership School (ALS) to enhance their Professional Military Education (PME). After attending the Air Force Training course, 5-levels can be considered for appointment as trainers. Trainers must be qualified to perform the task to be trained. CDC study is continued to prepare for Weighted Airman Promotion testing. Airmen should also consider continuing their formal education by pursuing a Community College of the Air Force (CCAF) degree.

**5.4. Craftsman (7) Level.** A craftsman can expect to fill various supervisory and management positions such as maintenance management analyst, wing database manager, NCOIC database management, wing analyst, AMU analyst, NCOIC AMU Analysis, NCOIC Wing Analysis, element chief, Cyber/Space/Communication Systems analyst and various staff positions. Exportable courses, MAJCOM, and unit directed courses are also available. Seven-levels should take courses or obtain added knowledge of management of resources and personnel, and be thoroughly familiar with all facets of maintenance operations. Continue academic education IAW AFI 36-2670. In addition, individuals will complete the appropriate PME requirements.

**5.5. Superintendent (9) Level.** A 9-level can be expected to fill the position of MAJCOM Functional Manager or Maintenance Operations (MXO) Superintendent, with knowledge of Maintenance Management Analysis, Maintenance Production Management, Engine Management, Supply, Maintenance Training Management, Cyber/Space/Communication, Maintenance Operations Center (MOC), Quality Assurance (QA), Weapons Standardization and Programs. Additional training in the areas of budget, manpower, resources, and personnel management should be pursued through continuing education. Individuals promoted to SMSgt will attend the Senior Noncommissioned Officer Academy IAW AFI36-2670. They should be knowledgeable and possess the ability to apply the AF Tactics, Techniques, and Procedures as outlined in [AFTTP 3-4.21V1, Aircraft Maintenance](#). Additional higher education and completion of courses outside their career AFSC is also recommended.

**6 Training Decisions.** This CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the 2R0X1 Maintenance Management Analysis 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 U&TW held at Sheppard AFB TX from 19-22 October 2020.

**6.1 Initial Skills.** The 3-level resident course provides training in database management and analysis functions. The U&TW working group members revised the 3-level course. The course was changed with a shift to more generic MIS training, expanded training in Excel and data visualization, and removal of obsolete IMDS functions. Overall course length was reduced from 55 to 51 days.

**6.2 Five Level Upgrade Requirements.** To upgrade to the 5-level, personnel must meet educational and training requirements as listed in table A8.1. Enlisted Career Path. There were no significant changes made to the supplemental course. Overall the course length will remain at 20 days.

**6.3 Seven Level Upgrade Requirements.** To upgrade to the 7-level, personnel must meet educational and training requirements and grade requirements as listed in table A8.1. Enlisted Career Path. Seven levels must be a SSgt, complete core task training, complete 7-level CDC, and complete the 7-level resident course at Sheppard AFB Texas for upgrade to the Craftsman level. The U&TW working group made minimal changes to the 7-level course but new additions with higher proficiency codes led to an increase in instructional time. The overall course length increased to 15 days. All students regardless of component will attend the Craftsman course.

**6.4 Continuation Training.** Any additional knowledge and skill requirements, which are 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 2R0X1 Maintenance Management Analysis career field receive 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 offers and awards job-related associate in applied science degrees and other academic credentials that enhance mission readiness, contribute to recruiting, assist in retention and support the career transitions of Air Force enlisted members. The college works with Air Force training centers, regional accrediting agencies, and hundreds of cooperating civilian colleges and universities. The technical nature of most Air Force courses, placed at the same level with college studies, can award Airmen full college credits for most of what they learn through formal coursework and on-the-job training. Enrollment in CCAF occurs upon completion of basic military training. CCAF provides the opportunity to obtain an Associate in Applied Science Degree. In addition to its associate degree program, CCAF offers the following:

**7.1. Occupational Instructor Certification.** Upon completion of instructor qualification training, consisting of the Basic Instructor Course (BIC) and supervised practice teaching, CCAF instructors who possess an associate degree or higher may be nominated by their school commander/commandant for certification as an occupational instructor.

**7.2. Instructor of Technology and Military Science Degree.** Air Force and other service enlisted personnel who are performing duty as full-time CCAF instructors may register in this program. Airmen must hold their career-field-related CCAF degree or equivalent civilian college degree before registration.

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

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

**7.3.1. Technical Education** (24 Semester Hours): Completion of the 2R0X1 training courses satisfies some semester hours of the technical education requirements. A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective courses.

Course	Semester Hours
J3ABR2R031 0A3C .....	15
J3AZR2R0X1 0A1A .....	9
J3ACR2R071 0A7B .....	7

NOTE: These are the approximate hours listed for courses. These hours will change because of revisions being made to courses. CCAF must be contacted to get the correct number of hours for all courses.

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

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

**7.3.4. 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.

**7.3.5. Program Electives** (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 Associate of Applied Science for this specialty.

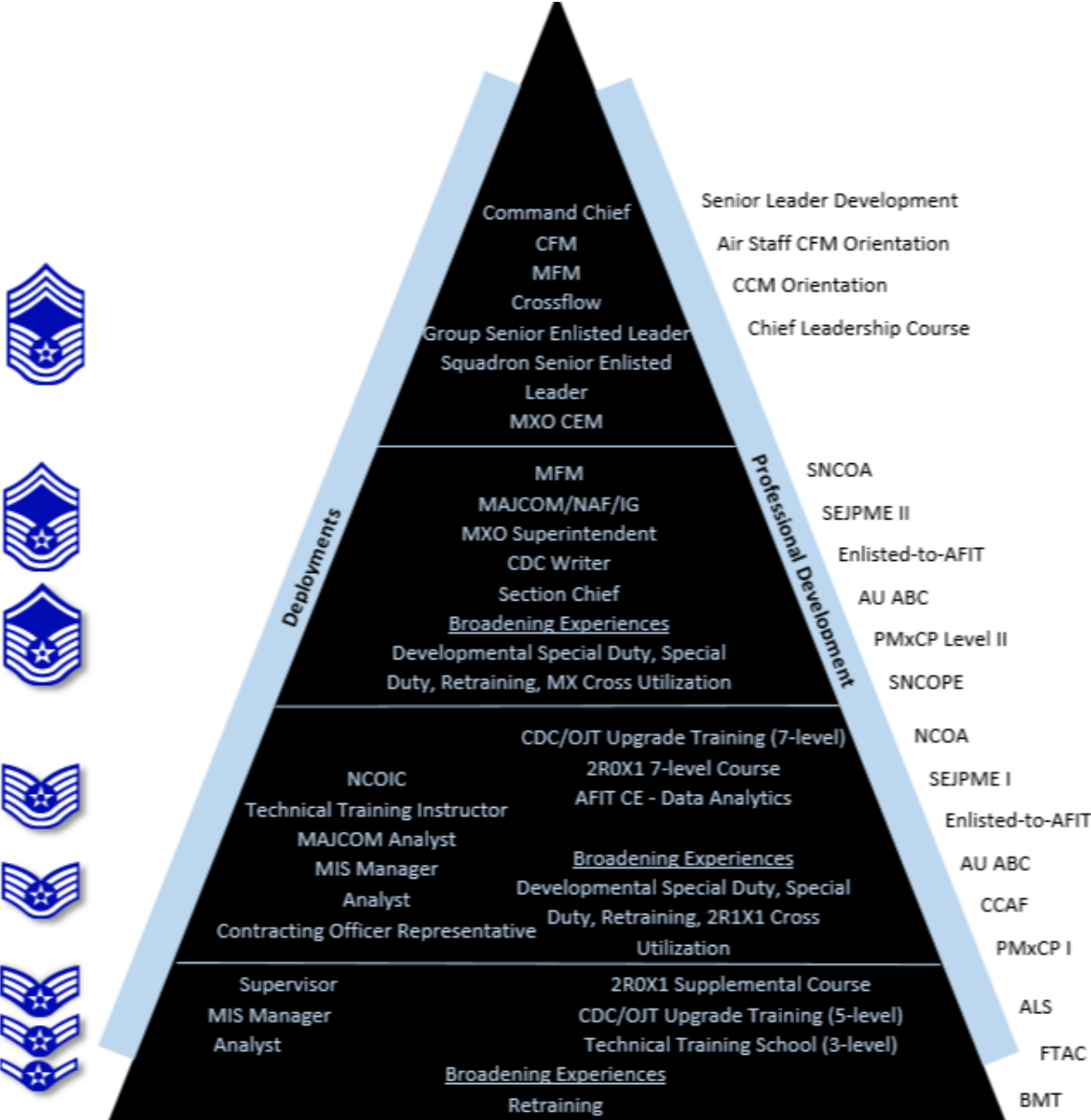
**7.4. AETC Instructor Requirements:** Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an Air Education and Training Command instructor should be actively pursuing an associate degree. A degreed faculty is necessary to maintain accreditation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

## 8 Career Field Path

NOTE: For the latest information, go to <https://myvector.us.af.mil/myvector/>

**8.1.** The Enlisted Development Team (EDT) is the deliberate force development steering group for the Maintenance Management Career Fields. The EDT outlines the training, education, and experience requirements for critical Maintenance Management duty positions, and provides recommendations for the best-qualified SNCOs into these key leadership positions across the Air Force. The EDT also identifies other developmental opportunities for Maintenance Management SNCOs to facilitate their deliberate development. These recommendations or vectors are the EDT’s collective recommendations for experience level, training and/or education opportunity, or position type that a member should be considered and seek out for professional growth. Vectoring will consist of recommendations for identified positions (i.e. development, leadership and strategic positions) within the Maintenance Management construct for which a member should be considered in subsequent assignments, but will not identify a specific location of assignment.

**8.2. Enlisted Career Path.** Figure A8.1 identifies career path for the 2R0X1 Air Force Specialty



<b>Table A8.1. Base/Unit Education and Training Manager Checklist</b>		
<b>Requirements for Upgrade to:</b>	<b>Y</b>	<b>N</b>
<p><b>Journeyman</b></p> <ul style="list-style-type: none"> <li>- Does the apprentice possess the 2R031 AFSC?</li> <li>- Has the apprentice completed mandatory CDCs, if available?</li> <li>- Has the apprentice completed all appropriate 5-level core tasks identified in the CFETP?</li> <li>- Has the apprentice met mandatory requirements listed in specialty description, AFECD, and CFETP?</li> <li>- Has the apprentice been recommended by their supervisor?</li> </ul>		
<p><b>Craftsman</b></p> <ul style="list-style-type: none"> <li>- Does the journeyman possess the 2R051 AFSC</li> <li>- Has the journeyman achieved the rank of SSgt?</li> <li>- Has the journeyman completed mandatory CDCs?</li> <li>- Has the journeyman completed all core tasks identified in the CFETP?</li> <li>- Has the journeyman attended 7-skill level Craftsman Course?</li> </ul> <p><b>Before attending, they must complete:</b></p> <ul style="list-style-type: none"> <li>-- All 7-level training requirements listed in the CFETP.</li> </ul>		

TO: Squadron/CC  
FROM: Squadron Training Manager  
SUBJECT: Upgrade Trainee

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

\_\_\_\_\_  
Training Manager

\_\_\_\_\_  
Supervisor

## ***Section C - Skill Level Training Requirements***

**9. Purpose.** Skill level training requirements in the 2R0X1 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 C and E of this CFETP.

### **10. Specialty Qualification:**

#### **10.1. Apprentice Level Training:**

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

**10.1.1.1. Knowledge.** Knowledge is mandatory of maintenance and operations organizational management and procedures applying to aircraft, missiles, communications-electronics, space systems, or related equipment; applied statistical procedures and analytical data systems design; MIS and desktop computer operation and use; and concepts and application of directives.

**10.1.1.2. Education.** For entry into this specialty, computer literacy and completion of high school with courses in Algebra, English composition, effective writing, and typing are desirable.

**10.1.1.3. Training.** For award of AFSC 2R031, completion of a basic maintenance management analysis course is mandatory.

**10.1.1.4. Experience.** None

**10.1.1.5. Other.** Specialty requires routine access to Secret material or similar environment. For award and retention of AFSC 2R031/51/71, completion of a current National Agency Check, Local Agency Checks and Credit (NACLC) according to AFMAN 16-1405, *Air Force Personnel Security Program*.

**10.1.2. Training Sources and Resources.** The 3-level initial skills course will provide the required knowledge, qualification, and applicable certification. Initial skills training consists of statistical methods of data analysis, computer application software, data retrieval techniques, the operation / maintenance of MIS, the procedures for maintaining and correcting data systems, the interpretation and use of reports from MISs, and the presentation of maintenance data.

**10.1.3. Implementation.** Upon graduation from Basic Military Training (BMT), completion of course J3ABR2R031 0A3C, Maintenance Management Analysis Apprentice, satisfies the knowledge and training resource requirements for award of the 3-skill level for Maintenance Management Analysis trainees.

## **10.2. Journeyman Level Training:**

### **10.2.1. Specialty Qualification.**

**10.2.1.1. Knowledge.** In addition to the 3-level qualifications, a 5-skill level must possess the knowledge and skills necessary to apply statistical, analytical, and presentation techniques and manage/maintain assigned MIS(s). A 5-level must have knowledge of personal computer operations and productivity software (Microsoft PowerBI, Word, Excel, PowerPoint, and Access); using the assigned MIS(s) to extract, manipulate, organize, and analyze maintenance data; assisting users with the utilization of the assigned MIS(s) to document maintenance activities; using Maintenance Data Documentation reference materials; using descriptive statistics; using predictive analysis; computing and interpreting maintenance performance indicators; performing time series analysis; and completing special studies.

**10.2.1.2. Education.** There are no additional education requirements beyond those defined for the apprentice level. However, after upgrade, pursuit of higher levels of academic education is desirable.

**10.2.1.3. Training.** For award of AFSC 2R051, 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 2R031 is mandatory. Also, experience in analysis activities is required.

**10.2.1.5. Other.** None.

**10.2.2. Training Sources and Resources.** Completion of the 2R051 CDC and 5-level core tasks represent the resources needed for award of the 5-skill level. There is no minimum time in training requirement, however for Regular Air Force, the maximum recommended time is 15 months.

**10.2.3. Implementation.** Training to the 5-level is performed by the units utilizing STS, exportable courses, and CDCs. Upgrade to the 5-level requires completion of the CDC and completion of 5 level core tasks. Wear the Basic Maintenance Badge after award of the 5-skill level.

## **10.3. Craftsman Level Training:**

### **10.3.1. Specialty Qualification.**

**10.3.1.1. Knowledge.** In addition to 5-level qualifications, an individual must possess advanced skills and knowledge of theory, concepts, principles and application of statistical, analytical, and presentation techniques; maintaining/operating assigned MIS(s) and evaluating/analyzing MIS data; and Air Force Tactics, Techniques, and Procedures 3-4.21V1. Qualification is required on extracting/manipulating/organizing maintenance data, using the analysis process, developing hypothesis statements, performing parametric/nonparametric tests, performing sampling techniques, and developing control charts.



**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 mandatory CDCs, all 5 and 7-level core tasks, and resident 7-level resident course are mandatory for upgrade to 2R071.

**10.3.1.4. Experience.** Qualification in and possession of AFSC 2R051 is mandatory. Also, experience performing or supervising analysis functions and activities is required.

**10.3.1.5. Other.** Data Analytics courses should be pursued further. Courses are available through Air Force Institute of Technology (AFIT).

**10.3.2. Training Sources and Resources.** Completion of the J3ACR2R071 0A7B course at Sheppard AFB Texas, completion of applicable 7-level CDCs, along with supervisor certification of Air Force directed core tasks represent the resources required for award of the 7- skill level. The requirements listed in Part II list the training provided by the 7-level resident course at Sheppard AFB Texas.

**10.3.3. Implementation.** Upgrade to the 7-level will require completion of all AF core tasks, completion of the 7-level CDCs, and resident 7- level course at Sheppard AFB Texas. There is no minimum time in training requirement, however for Regular Air Force, the maximum recommended time is 8 months. Wear the Senior Maintenance Badge after award of the 7-skill level

#### **10.4. Superintendent Level Training:**

**10.4.1. Specialty Qualification.** Qualification in and possession of AFSC 2R171/2R071. Also, experience managing maintenance scheduling or analysis activities

**10.4.1.1. Knowledge.** Knowledge is mandatory of maintenance analysis, plans, scheduling, documentation, engine management, training management, programs, MOC functions, and familiarization with QA and WSS; maintenance concepts, directives, and organizational structure; Air Force supply procedures and resource management; should be knowledgeable of AFTTP 3-4.21V1, *Aircraft Maintenance* and FB-01, *Theory of Constraints*. In addition to the 7-level qualifications, an individual must possess advanced skills and knowledge of statistical and analytical techniques; maintaining, operating and managing MIS; analyzing deficiencies in areas such as equipment performance, materiel consumption, scheduling, management and resources; deficiency impact on the maintenance mission; and results of corrective actions, and evaluating, analyzing and interpreting MIS data.

**10.4.1.2. Education.** Completion of a CCAF/Associates degree is required and a Bachelor's degree is desirable.

**10.4.1.3. Training.** None.

**10.4.1.4 Experience.** Qualification in and possession of AFSC 2R171/2R071 is mandatory. Also, experience managing maintenance scheduling or analysis activities is required.

**10.4.2 Training Sources and Resources.** Duty position qualifications represent the required resources for upgrade to the 9-skill level.

**10.4.3 Implementation.** The 9-level will be awarded upon promotion to SMSgt. Wear the Master Maintenance Badge after award of the 9-skill level.

***Section D - Resource Constraints***

**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.

There are no resource constraints identified for 2R0X1 training.

## 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 the student so he or she knows what is expected of them to successfully complete training on each task. Each objective consists of a condition, behavior, and standard. The condition is the setting in which the training takes place (i.e. TOs, type of equipment, etc.). The behavior is the observable portion of the objective (i.e. perform an operational check). The standard is the level of performance that is measured to ensure the STS proficiency code level is attained. Each objective uses letter codes(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. “W” indicates a comprehensive written test and is used to measure the subject or task knowledge at the end of a block of instruction. “PC/W” indicates a subject or task knowledge progress check and a separate measurement of both knowledge and performance elements using a written test.

**2. Standard.** The standard for written examinations is 70%. Standards for performance objectives are indicated in the objective and are also indicated on the individual progress check checklist. The checklist is used by the instructor to document each student’s progress on each task. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or part of the behavior until satisfactory performance is attained. Students must satisfactorily complete all PCs prior to taking the written test.

**3. Proficiency Level.** Review column 4A of the STS to determine the proficiency level of a particular task or knowledge item. Review the course objective list to determine which STS item the objective supports. Review the proficiency code key in Part II, Section E of this CFETP for an explanation of the proficiency codes. Most task performance is taught to the “2b” proficiency level which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step by step procedures for doing the task.

**4. Course Objectives.** A detailed listing of initial skills or craftsman course objectives may be obtained by submitting a written request to 363 TRS/TRR, 520 Missile Road, Sheppard AFB TX 76311 or contact the OPR by telephone at DSN 736-8777.

### *Section B - Support Materials*

**5.** Support materials for the 2R0X1 career field are available at the following web sites:

**5.1.** Maintenance Management Community of Practice is available at:

<https://usaf.dps.mil/teams/2R-Sharepoint/SitePages/Home.aspx>.

**5.2.** Interactive Courseware information is available online through the 367th Training Support Squadron. Members must first register before gaining access to this website.

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

5.3. Headquarters Air Force Reserve Command Analysis information is available at: <https://afrc.eim.us.af.mil/sites/a4/a4m/Pages/a4mm.aspx>

5.4 AFTTP 3-4.21V1, *Aircraft Maintenance*. Available at the Air Force Combat Support TTP Repository: <https://usaf.dps.mil/teams/TTP/SitePages/ApprovedAFTTP.aspx>

**Section C - Training Course Index:**

6. **Purpose.** This section of the CFETP identifies training courses available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs. For further information on the following courses, contact the OPR at:

363 TRS/TRR  
 520 Missile Road  
 Sheppard AFB TX 76311-2261  
 DSN 736-8777

**7. Air Force In-Resident Courses.**

COURSE NO.	COURSE TITLE	LOCATION	USER
J3ABR2R031 0A3C	Maintenance Management Analysis Apprentice	Sheppard AFB, TX	USAF
J3AZR2R0X1 0A1A	Maintenance Management Analysis Supplemental	Sheppard AFB, TX	USAF
J3ACR2R071 0A7B	Maintenance Management Analysis Craftsman	Sheppard AFB, TX	USAF

**8. Air Force Career Development Academy (AFCDA) Courses.**

For further information on the following courses, contact the OPR at:

363 TRS/TRR  
 520 Missile Road  
 Sheppard AFB TX 76311-2261  
 DSN 736-8777

COURSE NO.	COURSE TITLE	User
CDC 2R051	Maintenance Management Analysis Journeyman	USAF
CDC 2R071	Maintenance Management Analysis Craftsmen	USAF

**9. Exportable Courses.** For further information on the following exportable courses, contact the OPRs at:

367 TRSS/Catalog  
 6058 Aspen Ave  
 Bldg 1295  
 Hill AFB, UT 84056-  
 5805 DSN 777-5868

COURSE NO.	COURSE TITLE	OPR	User
C6ANU00TVT7506	Combat Sortie Generation	367 TRSS	USAF
C2MDU00TCB7567	Aerospace Vehicle Distribution Officer (AVDO) Reference	367 TRSS	USAF
C3MDU00TCB0002	Maintenance Operations Officer-in-Charge/Superintendent (OIC/SUPT)	367 TRSS	USAF

**10. Other Supplemental Courses.**

Data Analytics and Theory of Constraint courses are available from the AFIT School of Systems and Logistics continuing education website at <https://www.afit.edu/LS/catalog.cfm?t=3>.

Airmen should pursue the Data Analysis skill and Data Scientist career path on the Air Force Digital University website at <https://digitalu.af.mil/>

The Professional Maintenance Certificate Program (PMxCP) is available through the Air Force Logistics Professional Development Program at <https://usaf.dps.mil/teams/10352/sitepages/home.aspx>

**10.1 Postgraduate Education**

Airmen and civilians are eligible to apply for the AFIT graduate Certificate in Data Analytics. Additional information can be found at the program information page at <https://www.afit.edu/EN/programs.cfm?a=view&D=64>

Airmen are eligible to compete annually through the Enlisted-to-AFIT program for the following Master’s degrees: Applied Mathematics, Computer Science, Logistics and Supply Chain Management, and Operations Research. Review admission requirements for full details.

**11. Training Detachment (TD) Courses.**

There are no TD courses for the 2R0X1 career field.

**12. REMIS Courses**

The REMIS training guides are provided by the REMIS PMO and are available at the

following URL: <https://www.my.af.mil/gcss-af/USAF/ep/browse.do?programId=t88B4F00B3EF1A1AA013F5CBF50330BA5&channelPageId=s6925EC1357EF0FB5E044080020E329A9>

### ***Section D - MAJCOM Unique Requirements***

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

### ***Section E - Specialty Training Standard***

**14. Implementation.** This STS will be used for technical training provided by AETC for classes beginning with course J3ABR2R031 0A3C, October 2021 and course J3ACR2R071 0A7C beginning January 2022. Course J3AZR2R0X1 0A1A is not governed by this STS. It has a separate Course Training Standard (CTS) that will be developed, and the new course will begin at a date to be determined.

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

**15.1.** Lists in column 1 the most common tasks, knowledge, and Technical References (TR) necessary for Airman to perform duties in the 3-, 5-, and 7-skill level.

**15.2.** Identifies in column 2 (Core Tasks) by asterisk (\*), specialty-wide training requirements. As a minimum, all AFCFM directed core tasks applicable to this specialty must be completed and signed off for skill level upgrade. Complete all 5-level core tasks associated with assigned MIS per AFI 36-2650. (Note: For units that do not utilize IMDS or G081, IMDS or G081 5-level core tasks are not required.) There is no longer an Air Force requirement for third-party certification of core tasks in this AFSC. However, MAJCOMs, commanders, and work center supervisors still retain the option to designate critical tasks (core or non-core) as requiring third-party certification.

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

**15.4.** 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.

**15.5. 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.

**15.6. Job Qualification Standard.** Individual training will be documented IAW AFI 36-2670.

**15.7. STS.** This STS 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 Occupational Measurement Squadron, by Senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas

judged by test development team members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the WAPS catalog. Individual responsibilities are in AFI 36-2502, *Airman Promotion/Demotion Programs*. WAPS is not applicable to the Air National Guard or Air Force Reserve.

**16. Recommendations.** Report unsatisfactory performance of individual course graduates to the AETC training manager at 363 TRS/TRR, 520 Missile Road, Sheppard AFB TX, 76311-2261, DSN 736-8777, or e-mail to: [camilla.cropper@us.af.mil](mailto:camilla.cropper@us.af.mil). Please reference specific STS paragraphs. For a quick response to problems, call our customer service information line, DSN 736-5236.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

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

2 Attachments

1. Proficiency Code Key
2. Qualitative Requirements



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**PROFICIENCY CODE KEY**

**STS 2R0X1**

<i>This Block Is For Identification Purposes Only</i>		
Name Of Trainee		
Printed Name of Trainee ( <i>Last, First, Middle Initial</i> )	Initials (Written)	SSAN (Last 4 only)
Printed Name Of Training/Certifying Official And Written Initials		
<i>NI</i>	<i>NI</i>	
<i>NI</i>	<i>NI</i>	
<i>NI</i>	<i>NI</i>	
<i>NI</i>	<i>NI</i>	
<i>NI</i>	<i>NI</i>	
<i>NI</i>	<i>NI</i>	
<i>NI</i>	<i>NI</i>	
<i>NI</i>	<i>NI</i>	
<i>NI</i>	<i>NI</i>	
<i>NI</i>	<i>NI</i>	
<i>NI</i>	<i>NI</i>	

**Proficiency Code Key**

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

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

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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 Note)					
			A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level			
	5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC		
NOTE 1: Users are responsible for annotating training references to identify current references, pending STS revision.													
NOTE 2: All items marked with a code in column 4a (1) are trained in resident wartime courses.													
NOTE 3: Items in column 2 marked with an asterisk (*) are core tasks required for upgrade to the 5 or 7-skill level. Seven levels must complete both 5 and 7-level core tasks.													
1	Career Progression TR: AFMAN 36-2100 and Air Force Enlisted Classification Directory (AFECD)												
1.1	MyVector									-	-	-	-
1.2	Purpose of 2R0X1 Career Field									A	-	-	-
1.3	Provide duty description of a 2R0X1									-	-	-	-
2	Technical Publications; TR: T.O. 00-5-1, DAFI 33-360												
2.1	Use Air Force Instructions (AFIs)		*							c	-	-	-
2.2	Use Technical Orders		*							2b	-	-	-
2.3	Use MAJCOM /local instructions									-	-	-	-
2.4	AFTTP 3-4.21V1									A	-	-	-
3	Wing Structure												
3.1	Wing Leadership									-	-	-	-
3.2	Groups in a standard Wing									-	-	-	-
4	Functions within the MXG and how each interface with MMA. TR: AF121-101, AFI 21-103, AFD 21-1, AFCSM 21-series, MAJCOM Directives, T.O. 00-20 series, Commercial Texts												
4.1	Responsibilities of group leadership									A	B	-	-
4.2	Maintenance Operations												
4.2.1	Superintendent									A	B	-	-
4.2.2	Maintenance Management Production									A	B	-	-
4.2.3	Maintenance Management Analysis									A	B	-	-
4.2.4	Maintenance Operations Center (MOC)									A	B	-	-
4.2.5	Engine Management									A	B	-	-

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level		
				5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course
4.2.6	Maintenance Training									A	B	-	-
4.2.7	Programs and Resources									A	B	-	-
4.2.8	Cyber/Space/Communication Complex TR: TO 00-33A-1001									-	B	-	-
4.3	Quality Assurance (QA)												
4.3.1	Responsibilities of the Technical Order distribution Office (TODO)									-	B	-	-
4.3.2	Concept of the Product Improvement Management Section (PIMS)									-	B	-	-
4.3.3	One-Time Inspection (OTI) program									-	B	-	-
4.3.4	Criteria for the FCF/OCF program TR: T.O. 1-1-300 and applicable acft -6 T.O.									-	B	-	-
4.3.5	Weight and Balance (W&B) program TR: T.O. 1-1B-50 and applicable acft -6 T.O.									-	-	-	-
4.3.6	Impoundment program									-	B	-	-
4.3.7	Maintenance Assistance TR: TO-00-25-107									-	B	-	-
4.4	Aircraft Maintenance Squadron (AMXS)												
4.4.1	Maintenance Operations Officer									A	B	-	-
4.4.2	Senior Enlisted Leader									A	B	-	-
4.5	Aircraft Maintenance Unit (AMU)												
4.5.1	AMU Officer in Charge									A	B	-	-
4.5.2	Production Superintendent									A	B	-	-
4.5.3	Expediters									A	B	-	-
4.5.4	Crew Chiefs									A	B	-	-
4.5.5	Specialists (avionics, engines, etc.)									A	B	-	-
4.5.6	Weapons section									A	B	-	-
4.5.7	Supply/Support section									A	B	-	-
4.5.8	Debrief									A	B	-	-
4.6	Maintenance Squadron (MXS) (Represents EMS, CMS and MUNS)												
4.6.1	Accessories Flight									A	B	-	-
4.6.2	Aerospace Ground Equipment (AGE) Flight									A	B	-	-

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level		
				5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course
4.6.3	Armament Flight									A	B	-	-
4.6.4	Avionics Flight									A	B	-	-
4.6.5	Fabrication Flight									A	B	-	-
4.6.6	Maintenance Flight									A	B	-	-
4.6.7	Munitions Flight									A	B	-	-
4.6.8	Propulsion Flight									A	B	-	-
4.7	Missile Maintenance Squadron Intercontinental Ballistic Missile (ICBM) Functions Only TR: AFMAN 21-202												
4.7.1	Missile Maintenance Team (MMT)									-	-	-	-
4.7.2	Electro-Mechanical Team (EMT)									-	-	-	-
4.7.3	Facilities Maintenance Team (FMT)									-	-	-	-
4.7.4	Periodic Maintenance Team (PMT)									-	-	-	-
4.7.5	Survivable System Team (SST)									-	-	-	-
4.7.6	Hardened Inner Cable System (HICS)									-	-	-	-
4.7.8	Communication (COMM)									-	-	-	-
4.7.9	Missile Handling Team (MHT)									-	-	-	-
4.7.10	Depot Team (Rivet Mile)									-	-	-	-
4.7.11	Corrosion Control									-	-	-	-
5.	Maintenance Data Documentation (MDD) TR: T.O. 00-20-1, 00-20-2												
5.1	MDD concept	*								B	B	-	-
5.2.	MDD codes	*								B	B	-	-
5.3	Maintenance Management Principles												
5.3.1	Data Integrity									B	B	-	-
5.3.2	Preventive vs. corrective maintenance									B	A	-	B
5.3.3	Weapons system forms management									A	A	-	B
5.3.4	Technical Order (TO) management									-	A	-	B
5.3.5	Inspection systems TR: TO 00-20 series									A	B	-	-

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level		
		5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC	
6	Supervision TR: AFI 36-2406, AFH 36-2618, AFECD												
6.1	Orient new personnel									-	-	-	-
6.2	Assign personnel to work areas									-	-	-	-
6.3	Plan work assignments and priorities									-	-	-	-
6.4	Schedule work assignments									-	-	-	-
6.5	Establish work methods									-	-	-	-
6.6	Establish work controls									-	-	-	-
6.7	Establish performance standards									-	-	-	-
6.8	Unit self-inspection TR:AFI 90-201									-	-	-	-
6.9	Manpower standards									-	-	-	-
6.10	Unit Manning Document (UMD)		*							-	-	-	-
6.11	Unit Manpower Personnel Roster (UMPR)		*							-	-	-	-
7	OJT Requirements TR: AFI 36-2670; AFECD												
7.1	Prepare Master Training Plan (MTP)									-	-	-	-
7.2	Prepare teaching outlines or task breakdowns									-	-	-	-
7.3	Provide trainees theory and train on actual equipment									-	-	-	-
7.4	Provide feedback on training provided									-	-	-	-
7.5	Maintain training records									-	-	-	-
8	Statistics TR: Commercial texts; MAJCOM implementing instructions												
8.1	Use descriptive statistics (Data distribution, measures of central tendency, and measures of variability)	*								2b	b	-	-
8.2	Develop hypothesis statements	*								-	b	2b	-
8.3	Perform parametric tests (Normality testing – T-test for outliers, Analysis of Variance (ANOVA) – two sample test, testing sample means – t-test for two samples)		*							-	-	2b	b
8.4	Perform non-parametric test (Mann-Whitney U test for comparison of two groups, Kruskal-Wallis H test and Chi-square test)		*							-	-	2b	B

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
				Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
8.5	Statistical Process Control											
8.5.1	Data tools/Process analysis (Charts and Diagrams)								A	B	-	-
8.5.2	Sampling techniques								a	b	-	-
8.5.3	Perform time series analysis	*							2b	b	-	-
8.5.4	Develop control charts	*							2b	b	-	-
8.6	Predictive Analysis and Tools TR: Commercial texts and MAJCOM implementing instructions											
8.6.1	Purpose of predictive analysis								A	B	-	-
8.6.2	Types of predictive analysis								A	B	-	-
8.6.3	Statistical programming tool								-	-	-	B
8.6.4	Perform regression analysis		*						-	2b	-	-
8.6.5	Perform correlation analysis		*						-	2b	-	-
8.6.6	Perform a trend analysis		*						2b	2b	-	-
8.6.7	Perform extrapolation	*							2b	2b	-	-
8.6.8	Calculate probabilities	*							2b	2b	-	-
8.6.9	Forecasting		*						-	-	-	2c
8.7	8 Step Problem Solving TR: AF CPI <a href="https://usaf.dps.mil/teams/cpiportal">https://usaf.dps.mil/teams/cpiportal</a>											
8.7.1	Clarify and Validate Problem		*						a	-	-	-
8.7.2	Breakdown Problem/Identify Performance gaps		*						a	-	-	-
8.7.3	Set Improvement Target		*						a	-	-	-
8.7.4	Determine Root Cause		*						a	-	-	-
8.7.5	Develop Countermeasures		*						a	-	-	-
8.7.6	See Countermeasures through		*						a	-	-	-
8.7.7	Confirm Result and Process		*						a	-	-	-
8.7.8	Standardize Successful Processes		*						a	-	-	-
8.7.9	Apply 8-step process		*						-	b	3c	c



1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
		5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
9	Health Of Fleet (HOF) indicators TR: TO 00-20-2; AFTTP 3-4.21V1; MAJCOM implementing instructions											
9.1	Maintenance Performance Indicators											
9.1.1	System reliability/capability											
9.1.1.1	Purpose and use	*							A	2c	-	-
9.1.1.2	Compute	*							2b	b	-	-
9.1.2	Base repair capability TR: TO 00-20-3											
9.1.2.1	Purpose and use								A	2c	-	-
9.1.2.2	Compute								2b	b	-	-
9.1.3	Maintenance Scheduling Effectiveness (MSE)								A	B	-	-
9.1.4	Maintenance, personnel, airframe, and facilities capability/First Look											
9.1.4.1	Purpose and use	*							A	2c	-	-
9.1.4.2	Compute								-	b	-	c
9.1.5	Aircraft availability											
9.1.5.1	Purpose and use	*							A	2c	-	-
9.1.5.2	Compute	*							2b	b	-	-
9.1.6	Aircraft status rates											
9.1.6.1	Purpose and use	*							A	2c	-	-
9.1.6.2	Compute	*							2b	b	-	-
9.1.7	Maintenance/operations deviation rate											
9.1.7.1	Purpose and use	*							A	2c	-	-
9.1.7.2	Compute	*							2b	b	-	-
9.1.8	Flying schedule effectiveness rate											
9.1.8.1	Purpose and use	*							A	2c	-	-
9.1.8.2	Compute	*							2b	b	-	-
9.1.9	Man-hours per flying hour											

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level		
				Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC	
5	7												
9.1.9.1	Purpose and use	*								A	2c	-	-
9.1.9.2	Compute	*								2b	b	-	-
9.1.10.	Fix rate												
9.1.10.1	Purpose and use	*								A	2c	-	-
9.1.10.2	Compute	*								2b	b	-	-
9.1.11	Break rate												
9.1.11.1	Purpose and use	*								A	2c	-	-
9.1.11.2	Compute	*								2b	b	-	-
9.1.12	Repeat/recur rates												
9.1.12.1	Purpose and use	*								A	2c	-	-
9.1.12.1	Compute	*								2b	b	-	-
9.1.13	Deferred discrepancies												
9.1.13.1	Purpose and use	*								A	2c	-	-
9.1.13.2	Compute	*								2b	b	-	-
9.1.14	Cannibalization rate												
9.1.14.1	Purpose and use	*								A	2c	-	-
9.1.14.2	Compute	*								2b	b	-	-
9.1.15	Ground abort rate												
9.1.15.1	Purpose and use	*								A	2c	-	-
9.1.15.2	Compute	*								2b	b	-	-
9.1.16	Air abort rate												
9.1.16.1	Purpose and use	*								A	2c	-	-
9.1.16.2	Compute	*								2b	b	-	-
9.1.17	Total abort rate												
9.1.17.1	Purpose and use	*								A	2c	-	-
9.1.17.2	Compute	*								2b	b	-	-

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
		5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
9.1.18	USE rates TR: AFI 21-101 AMC Supplement											
9.1.18.1	Purpose and use	*							A	2c	-	-
9.1.18.2	Compute	*							-	b	-	-
9.1.19	Sortie/hourly utilization rates											
9.1.19.1	Purpose and use	*							A	2c	-	-
9.1.19.2	Compute	*							2b	b	-	-
9.1.20	Departure reliability rates											
9.1.20.1	Purpose and use	*							A	2c	-	-
9.1.20.2	Compute	*							2b	b	-	-
9.1.21	Mean Time Between Failure (MTBF)											
9.1.21.1	Purpose and use								-	-	-	-
9.1.21.2	Compute	*							-	b	-	-
9.1.22	Mean Time To Repair (MTTR)											
9.1.22.1	Purpose and use								-	-	-	-
9.1.22.2	Compute	*							-	b	-	-
9.1.23	Mean Time Between Maintenance Events (MTBME)											
9.1.23.1	Purpose and use								-	-	-	-
9.1.23.2	Compute	*							-	b	-	-
9.1.24	Attrition rates											
9.1.24.1	Purpose and use	*							A	2c	-	-
9.1.24.2	Compute attrition rates	*							2b	b	-	-
9.1.25	Spare factor											

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
		5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
9.1.25.1	Purpose and use	*							A	2c	-	-
9.1.25.2	Compute spare factor	*							2b	b	-	-
9.1.26	Prepare Maintenance Summary	*							2b	b	-	-
9.2	Cyber/Space/Communications Systems Performance Indicators TR: T.O. 00-33A-1001, DAFPAM 63-128											
9.2.1	Operational Availability (Ao)								-	B	-	-
9.2.2	Operational Readiness (Or)								-	B	-	-
9.2.3	Mean Down Time (MDT)								-	B	-	-
9.2.4	Mean Repair Time (MRT)								-	B	-	-
9.2.5	Mean Time Between Failure (MTBF)								-	B	-	-
9.2.6	Mean Time Between Critical Failures (MTBCF)								-	B	-	-
9.2.7	Mean Time Between Maintenance (MTBM)								-	B	-	-
9.2.8	Utilization rate								-	B	-	-
9.2.9	Maintenance Labor-Hours per Active Hour (MLH/AH)								-	B	-	-
9.2.10	Operational Dependability (Do)								-	B	-	-
9.2.11	Mean Time To Restore Functions (MTTRF)								-	B	-	-
10	Report Analysis Findings/ Studies											
10.1	Purpose and description								B	-	-	-
10.2	Prepare and present		*						-	b	3c	c
11	Computers TR: Applicable user manuals											
11.1	Computer Fundamentals								a	-	-	-
11.2	Use Software											
11.2.1	Word processing	*							2b	-	-	-
11.2.2	Excel											

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level		
		5	7	Tng Star	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC	
11.2.2.1	Navigate a Workbook	*								2b	-	-	-
11.2.2.2	Excel Fundamentals	*								2b	-	-	-
11.2.2.3	Excel Functions (Formulas)												
11.2.2.3.1	Basic Excel Functions	*								2b	-	-	-
11.2.2.3.2	Advanced Excel Functions	*								2b	-	-	-
11.2.2.4	Pivot Tables	*								2b	-	-	-
11.2.2.5	Charts	*								2b	-	-	-
11.2.2.6	Get and Transform (Power Query)	*								2b	-	-	-
11.2.2.7	Analysis Tool Pack		*							-	-	2b	B
11.2.2.8	Solver/What if Analysis		*							-	-	2b	B
11.2.3	Database systems									2b	-	-	-
11.2.4	Presentation software	*								2b	-	-	-
11.2.5	Data Visualization (Power BI)												
11.2.5.1	Navigate a report	*								2b	-	-	-
11.2.5.2	Get and Transform (Power Query)	*								2b	-	-	-
11.2.5.3	Power BI Functions (Formulas)	*								2b	-	-	-
11.2.5.4	Data visualization	*								2b	-	-	-
11.2.6	Data File Manipulation TR: Application User Manuals												
11.2.6.1	Purpose and description									A	-	-	-
11.2.6.2	Convert data files – Extract, Transform, Load (ETL)									2b	-	-	-
11.2.6.3	Use of file delimiters									2b	-	-	-
11.2.6.4	Use of filters									2b	-	-	-
11.2.6.5	Create reports									-	-	-	-
12	Data Processing TR: AFCSM 21-5XX vol. 2 series; MAJCOM implementing instructions												

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)				
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level		
				Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC	
12.1	Aircraft mishap	*								A	b	-	-
12.2	Integrated Maintenance Data System (IMDS)												
12.2.1	Use Air Force Computer System Manual (AFCSM) 21-XXX series	*								2b	-	-	-
12.2.2	Methods of data processing												
12.2.2.1	Perform online/batch processing	*								2b	B	-	-
12.2.2.2	Upload file (TRIC ZAD, screen 794)									-	B	-	-
12.2.3	Data Management System (DMS) Schema / Subschema and Relational Data Management System (RDMS) Schema												
12.2.3.1	Define DMS / RDMS Schema / Subschema									-	B	-	-
12.2.3.2	Use DMS / RDMS Schema / Subschema									-	b	-	-
12.2.3.3	DMS Area Schematic / RDMS tables									-	B	-	-
12.2.3.4	Use DMS Area Schematic / RDMS tables									-	b	-	-
12.2.4	Subsystem Familiarization												
12.2.4.1	Basic knowledge of subsystems	*								-	B	-	-
12.2.4.2	Subsystem monitor responsibilities									-	B	-	-
12.2.4.3	Assist customers and subsystem monitors with technical problems									-	-	-	-
12.2.4.4	Use Job Data Documentation (JDD) subsystem	*								2b	b	-	-
12.2.5	Monitor System Interfaces TR: AFCSM 21-571, Vol 2												
12.2.5.1	Initiate Interactive Communication (ICI) Interface (TRIC TIS)									-	B	-	-
12.2.5.2	Monitor Reliability and Maintainability Information System (REMIS) interface programs									-	B	-	-
12.2.5.3	Monitor weapons system interface									-	-	-	-
12.2.5.4	Equipment transfer process TR: AFSCM 21-567, Vol 2									-	B	-	-
12.2.6	Aerospace vehicle Configuration management TR: AFCSM 21-576, vol. 2												
12.2.6.1	Purpose									-	B	-	-
12.2.6.2	Identify approved configuration items									-	B	-	-
12.2.6.3	Auditing of configuration records									-	B	-	-

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
		5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
12.2.7	IMDS Administration											
12.2.7.1	Responsibilities of Network Control Center (NCC) and Field Assistance Service (FAS)								A	B	-	-
12.2.7.2	Prepare ITSRD 3215 TR: AFCSM 21-556, Vol 2.								-	b	-	-
12.2.8	Releases											
12.2.8.1	Effects and purposes								A	B	-	-
12.2.8.2	Perform special instructions								-	-	-	-
12.2.8.3	Coordinate								-	-	-	-
12.2.8.4	Difficulty Reports (DIREPs)								A	B	-	-
12.2.9	Heads Up Messages (HUMs)											
12.2.9.1	Purpose of HUMs								A	-	-	-
12.2.9.2	Use of HUMs								-	B	-	-
12.2.10	System Advisory Notices (SANs)											
12.2.10.1	Purpose of SANs								A	-	-	-
12.2.10.2	Use of SANs								-	B	-	-
12.2.11	Coordination (Downtime, special programs)											
12.2.11.1	System administration procedures								-	B	-	-
12.2.11.2	Use checklist to demonstrate notification process								-	-	-	-
12.2.11.3	Monthly utilities								-	A	-	-
12.2.12	IMDS Security TR: AFCSM 21-571, Vol. 2, IMDS CDB Account Management Plan											
12.2.12.1	User-ID security								A	B	-	-
12.2.12.2	Profile Transaction Identifier Code (TRIC) security								A	B	-	-
12.2.12.3	Manage user profiles	*							2b	b	-	-
12.2.12.4	System Authorization Access Request (SAAR) DD Form 2875								A	-	-	-
12.2.13	Database Utilities TR: AFCSM 21-5XX Vol. 2 Series											
12.2.13.1	Monitor JDD Delete History SHM (NFS760)								-	B	-	-

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
		5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
12.2.13.2	Monitor Delete History DLH (NFS120)								-	B	-	-
12.2.13.3	Monitor C-E IMDS CDB/REMIS Reconciliation Program (NFS5B0)								-	B	-	-
12.2.13.4	Monitor TCTO resynchronization (NFS1M0)								-	-	-	-
12.2.13.5	Process/Monitor DVR (NFS540)								-	-	-	-
12.2.13.6	File Update mode MIK (NFSZ70)								-	B	-	-
12.2.13.7	Use DB Query								-	-	-	-
12.2.14	IMDS Reports											
12.2.14.1	Process on-line inquiries	*							2b	B	-	-
12.2.14.2	Process background reports	*							2b	B	-	-
12.2.15	Windows PowerShell/Structured Query Language (SQL)											
12.2.15.1	Windows PowerShell (Cmdlets)	*							-	B	-	-
12.2.15.2	Use TRIC SQL, screen 796	*							-	B	-	-
12.2.15.3	Build a PowerShell/SQL routine	*							-	B	-	-
12.2.15.4	Run a PowerShell/SQL routine	*							-	B	-	-
12.2.15.5	Maintain a PowerShell/SQL routine	*							-	B	-	-
12.3	G081 System TR: Applicable MAJCOM manuals											
12.3.1	Use G081 help screen manual								2b	-	-	-
12.3.2	Login to Production and test (web G081 staging)	*							2b	B	-	-
12.3.3	G081 database structure	*							-	B	-	-
12.3.4	G081 database layout	*							-	B	-	-
12.3.5	Subsystem familiarization								-	B	-	-
12.3.6	Understand MDD programs	*							-	B	-	-
12.3.7	G081 Management											
12.3.7.1	System change request (JIRA)								b	B	-	-
12.3.7.2	Monitor system deficiency reports								-	-	-	-



1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
		5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
12.3.7.3	Coordination (Downtime, special programs)								-	-	-	-
12.3.7.4	Schedule deadline jobs (9029a)	*							2b	B	-	-
12.3.7.5	Printer location control (9072)								-	-	-	-
12.3.8	G081 Security											
12.3.8.1	Maintain User-Id security (9057/9057c)	*							2b	B	-	-
12.3.8.2	Maintain program access security	*							2b	B	-	-
12.3.8.3	System Authorization Access Request (SAAR) DD Form 2875								A	A	-	-
12.3.8.4	User Management and 9046 screen								-	B	-	-
12.3.9	G081 Reports											
12.3.9.1	Execute InfoAssist retrievals	*							a	B	-	-
12.3.9.2	Modify InfoAssist retrievals	*							a	B	-	-
12.3.9.3	Copy InfoAssist retrievals	*							a	B	-	-
12.3.9.4	Batch jobs	*							-	-	-	-
12.3.9.5	Batch job modification	*							-	-	-	-
12.3.9.6	Batch job execution (InfoAssist)	*							-	-	-	-
12.3.10	Global Reach familiarization											
12.3.10.1	Run situational awareness report	*							-	2b	-	-
12.3.10.2	Add/Update/Delete subscription reports	*							-	2b	-	-
12.3.10.3	Run on-demand reports	*							-	2b	-	-
12.3.10.4	Run data integrity reports	*							-	2b	-	-
12.4	Reliability and Maintainability Information System (REMIS) TR: AFCSM 25-524 vol. 1 – 4											
12.4.1	Product Performance Subsystem (PPS)								-	-	-	A
12.4.2	Equipment Inventory Multiple Status Utilization Reporting Subsystem (EIMSURS)								-	-	-	A

1. Tasks, Knowledge And Technical References		2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
				A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
		5	7	Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) CDC	(1) Course	(2) CDC
12.4.3	Generic Configuration Status Accounting System (GCSAS)								-	-	-	A
12.4.4	Process reports								-	-	-	A
12.5	Enterprise Applications											
12.5.1	Logistics, Installations, and Mission Support – Enterprise View (LIMS-EV)	*							1b	A	-	-
12.5.2	LIMS-EV Ad Hoc reporting											
12.5.2.1	Purpose and use								-	B	-	-
12.5.2.2	Create/save reports		*						-	-	-	-
12.5.2.3	Execute/share reports		*						-	-	-	-
12.5.3	Global Decision Support System (GDSS-2)								-	A	-	-
12.6	Integrated Maintenance Information System (IMIS)											
12.6.1	Purpose of IMIS								-	A	-	-
12.6.2	IMIS structure								-	-	-	-
12.7	Autonomic Logistics Information System (ALIS)											
12.7.1	Purpose of ALIS								-	A	-	-
12.7.2	ALIS structure								-	-	-	-