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**CFETP 21AX
Parts I and II
June 2004**

AFSC 21AX

AIRCRAFT MAINTENANCE OFFICER

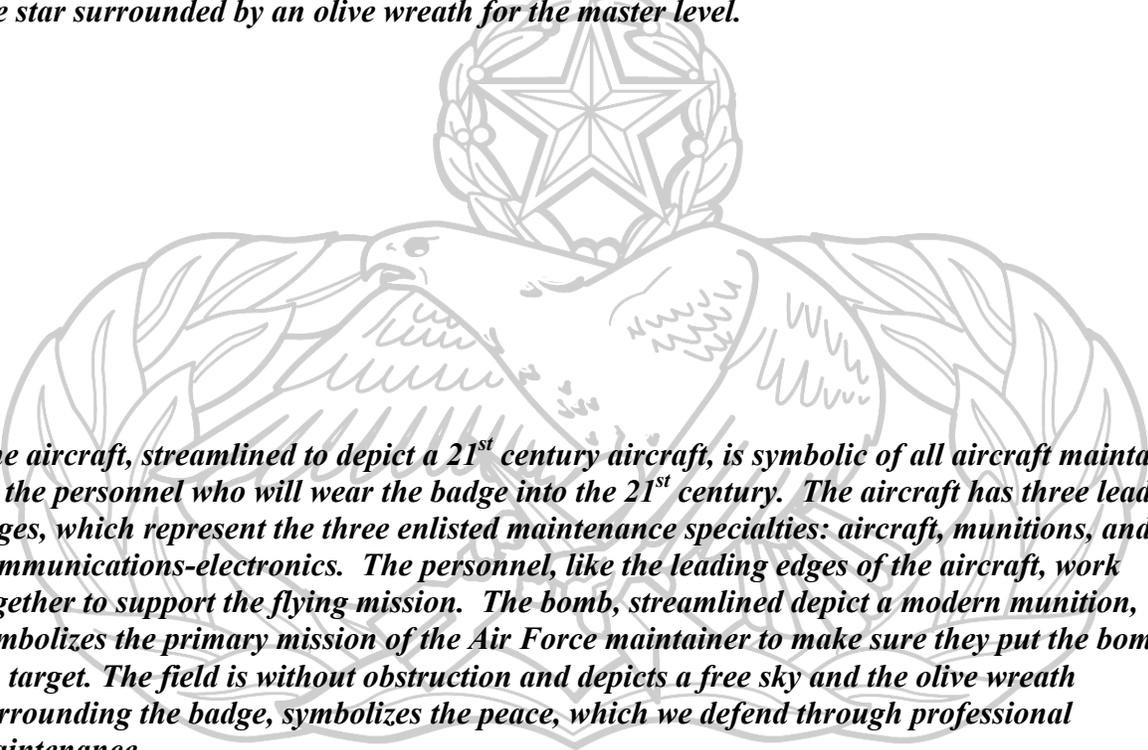


CAREER FIELD EDUCATION AND TRAINING PLAN

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Air Force Maintenance Badge Heraldry

The design of the falcon is a replica of the maintenance falcon located in the National Cathedral at Washington DC. The falcon symbolizes the airborne strength by the Air Force and made possible by the maintenance of aircraft, munitions, and communications-electronics equipment. In its talons, the falcon is holding a bomb and a generic 21st century aircraft. They are crossed to show the interrelationship of the career fields. The three levels of the award are signified by the addition of a star centered above the falcon for the senior level and the star surrounded by an olive wreath for the master level.



The aircraft, streamlined to depict a 21st century aircraft, is symbolic of all aircraft maintained by the personnel who will wear the badge into the 21st century. The aircraft has three leading edges, which represent the three enlisted maintenance specialties: aircraft, munitions, and communications-electronics. The personnel, like the leading edges of the aircraft, work together to support the flying mission. The bomb, streamlined depict a modern munition, symbolizes the primary mission of the Air Force maintainer to make sure they put the bombs on target. The field is without obstruction and depicts a free sky and the olive wreath surrounding the badge, symbolizes the peace, which we defend through professional maintenance.

**AIRCRAFT MAINTENANCE OFFICER
AFSC 21AX CAREER FIELD EDUCATION AND TRAINING PLAN
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AFSC 21AX
CAREER FIELD EDUCATION AND TRAINING PLAN
PREFACE

1. **Highly Trained Aircraft Maintenance Officers.** A highly trained, motivated officer corps is the Air Force's key resource in meeting challenges of the future. The Air and Space Expeditionary Force (AEF) concept is dependent on logistics in general and aircraft maintenance in particular for mission success. Because of this dependency, it is essential the Air Force have a fully trained and qualified Aircraft Maintenance officer corps. The Career Field Education and Training Plan (CFETP) for Aircraft Maintenance Officers provides the framework and guidance necessary for planning, developing, managing, and conducting a career field training program. The plan documents a "training roadmap" for the career field. This roadmap identifies mandatory qualification and training certification requirements officers must receive during their time in aircraft maintenance. This plan applies to members of the Air Reserve Component (ARC); however, specific timeline requirements for certification may be extended to accommodate the unique differences in time availability of ARC members.

1.1. This CFETP is a comprehensive core education and training document, which identifies life-cycle education and training requirements, training support resources, and minimum core task requirements for the Aircraft Maintenance Officer Specialty. CFETP provides a clear career path to success and instills rigor in all aspects of career field training.

2. **The CFETP.** The CFETP consists of two parts that are used to plan, manage, and control training within the 21AX career field.

2.1. Part I is in four sections and provides information necessary for overall management of training in the career field. Section A explains how to use the plan; Section B identifies career progression information, duties and responsibilities, training strategies, and a career field flowchart; Section C associates each skill level with qualifications (knowledge, training, education, experience, etc.); Section D indicates resource constraints in formal/unit training, i.e., funds, manpower, equipment, facilities.

2.2. Part II includes five sections. Section A identifies the Course Training Standards (CTS) and includes duties and tasks to support AETC and unit training requirements; Section B identifies available support materials; Section C contains a follow-on unit training task list that supervisors will use to teach new officers local operating/unit specific procedures and operations, requirements, and common maintenance procedures; Section D contains a training course index supervisors can use to determine resources available to support both mandatory and optional training; Section E can be used to identify MAJCOM unique training requirements. At unit level, supervisors and trainers use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

3. **Using the CFETP.** Commanders and supervisors must use this CFETP to ensure Aircraft Maintenance Officers receive training and skill-enhancing experience at appropriate stages in their development.

ABBREVIATIONS/TERMS EXPLAINED

Advanced Training. A formal course which provides officers who are already fully qualified in their Air Force Specialty Code (AFSC) with additional skills/knowledge to enhance their expertise in the career field. Training is for career officers at the qualified and staff level of an AFSC.

AFCFM. Air Force Career Field Manager.

AFCOMAC. Air Force Combat Ammunition Center.

AFIT. Air Force Institute of Technology. AFIT offers Masters degrees in Logistics Management, Acquisition Logistics, Supply Management, and Transportation Management. Ph.D. programs are also available. AFIT School of Systems and Logistics (AFIT/LS) also provides professional continuing education courses (PCE) such as: WLOG 199, 299, 399, and 499. Refer to Section D.

AMOC. Aircraft Maintenance Officer Course. Course taught by AETC to new Aircraft Maintenance Officer accessions.

AMMOS. Advanced Maintenance and Munitions Officer School. An advanced maintenance officer course taught by Air Combat Command (ACC) to intermediate level Maintenance Officers.

AMWC. Air Mobility Warfare Center. An AMC organization set up to train, test, and educate our forces in all aspects of air mobility.

APDP. Acquisition Professional Development Program. Established to ensure career development within designated acquisition and logistics career fields.

ARC. Air Reserve Component. Combination of Air Force Reserve Command and Air National Guard forces.

ART. Air Reserve Technician. Combination of civil servant and reservist.

BDE. Basic Developmental Education. Specific educational opportunities inside the AF to include but not limited to Squadron Officer School, and the AF Intern Program.

CFETP. Career Field Education and Training Plan. A comprehensive, multipurpose document that encapsulates the entire spectrum of training for a career field or specialty. It outlines a logical growth plan that includes training resources and makes career field training identifiable, eliminates duplication, and is budget defensible. The plan aids in identifying what education/training should be accomplished at what point on your way to becoming an Aircraft Maintenance Officer.

Continuation Training. Follow-on unit training.

Core Task. Tasks Air Force specialty functional managers identified as minimum qualification requirements within an Air Force specialty or duty position. These tasks exemplify the essence of the career field—the foundation for mission performance.

CTS. Course Training Standard. A specialized publication that identifies the training standard required to achieve a skill level(s) within an officer AFSC. It standardizes and controls the quality of officer training.

DAU. Defense Acquisition University. Provides mandatory, assignment-specific, and continuing education courses for military and civilian acquisition personnel within the Department of Defense.

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

FEQ. Field Evaluation Questionnaire. FEQs are designed to solicit feedback from supervisors and/or graduates to determine if the graduates were trained as specified in the training standard.

GAS. Graduate Assessment Survey. The GAS is used to gather customer feedback on any AF graduate (to include Air Force Reserve and Air National Guard (ANG)) of initial skill Types 3, 4, 5 courses.

ILS. Integrated Logistics Support.

IQT. Initial Qualification Training. A formal resident course, which results in award of the entry skill level, i.e., the basic Aircraft Maintenance Officer Course (AMOC).

IPZ. In the promotion zone. e.g., primary zone.

IDE. Intermediate Development Education. Specific educational opportunities inside and outside the AF to include but not limited to Air Command and Staff College, and identified advanced academic degree programs.

LPDP. Logistics Professional Development Program. A series of professional continuing education courses for officers, NCOs, and civilians in all logistics disciplines.

MCOC. Maintenance Course Operational Commanders

MFM. MAJCOM Functional Manager

MMC. Munitions Maintenance Officer Course. Course taught by AETC to munitions maintenance officer accessions.

MOIC. Maintenance Officer Intermediate Course. An advanced course taught by AETC to Aircraft, Munitions, and Missile Maintenance Officers.

NMOC. Nuclear Maintenance Officer Course. Course taught by AETC to Aircraft Maintenance Officers assigned to nuclear-tasked units and nuclear munitions maintenance officer accessions.

Qualification Training. Training designed to qualify an officer on tasks identified in Part II of this CFETP. This training occurs both during and after the upgrade training process and is designed to provide performance skills training required to do the job.

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

SLMC. Senior Leaders' Maintenance Course

SOS. Squadron Officer School.

SDE. Senior Developmental Education. Specific educational opportunities inside and outside the AF to include but not limited to Air War College, National Defense University, Industrial College of the Armed Forces, Army War College and Naval War College.

Total Force. All collective Air Force components (active, reserve, guard, and civilian elements) of the United States Air Force.

TR. Training Reference.

UGT. Upgrade Training. Mandatory training, which leads to the award of a higher skill level.

U&TW. Utilization and Training Workshop. A forum led by the AFCFM and AETC/DOOM of MAJCOM Air Force Specialty Code (AFSC) functional managers (who are the focal point for career field education and training within each MAJCOM), Subject Matter Experts (SMEs), and AETC training personnel that establish career field training requirements.

PART I
Section A - GENERAL INFORMATION

1. **Purpose of the CFETP.** This CFETP contains and provides information that career field functional managers, commanders, supervisors, trainers, and the technical training centers use to plan, develop, manage and conduct a robust career field training program. This plan identifies initial skills, upgrade, qualification, advanced, and continuation training. The CFETP has several purposes:

1.1. Serves as a management tool to plan, develop, manage, and conduct a career field training program. Also, it is used to ensure established training is provided at the appropriate point in an officer's career.

1.2. Identifies requirements for each skill level and recommends training for each phase of an officer's career.

1.3. Lists training courses available in the specialty, identifies sources of training, and provides the training medium.

1.4. Identifies major resource constraints that impact implementation of the desired career field training program.

2. **Use of the CFETP.** The CFETP will be approved and maintained by the Air Force Career Field Manager (AFCFM). The MAJCOM 21AX Functional Managers and AETC will review the CFETP annually to ensure currency and accuracy. Forward recommended changes to the AFCFM, HQ USAF/ILMM. MAJCOMs may not request new training if the requirement can be satisfied by existing courses. This plan will be used by all levels to ensure a comprehensive and cohesive training program is available and instituted for each officer in the career ladder.

2.1. AETC training personnel will develop/revise formal resident and exportable training based upon requirements established by the users and documented in this CFETP. They will also develop procurement and acquisition strategies for obtaining resources needed to provide the identified training. In addition, the 82 TRG/360 TRS Training Manager is the custodian of this CFETP and will ensure HQ AFPC/DPPAT receives approved revisions for publication.

2.2. The AFCFM will schedule and chair a Utilization and Training Workshop at a minimum every three years to address the training needs of the career field.

2.3. The MAJCOM functional manager will ensure training programs complement the CFETP mandatory initial skills and upgrade requirements. Identified requirements can be satisfied by AETC and unit resident training, or exportable courseware/courses. MAJCOM-developed training to support this AFSC must be identified for inclusion in this plan and must not duplicate available training.

2.4. Group commander and immediate supervisors will manage and control progression through the career field by ensuring each officer completes the mandatory training requirements for upgrade specified in this plan as supplemented by their MAJCOM. The list of courses in Part II, Section D, will be used as a reference to determine training required.

2.5. Commanders will monitor the effectiveness of maintenance training; notify MAJCOMs of formal training shortfalls to ensure timely correction and redirection of formal training emphasis and develop a solid maintenance officer orientation program to ensure the best possible training environment for maintenance officers. Each new maintenance officer will complete the mandatory training requirements specified in this plan to be awarded the appropriate maintenance AFSC and the

appropriate skill level. Maintenance Group Commanders, or equivalent, are responsible for ensuring their assigned officers meet the requirements of the CFETP. Supervisors will certify the officer's progression by documenting task completion on the "Training Completion Certification" sheet in the CFETP.

2.6. After implementation of this plan, each new officer will complete the mandatory follow-on training requirements listed herein and as specified by the unit. Specific instructions for follow-on training are described in Part 2, Section C.

2.7. Cross flow officers will maintain a 21A CFETP while in the 21A cross flow and accomplish all core tasks identified in this CFETP, as well as locally identified mandatory items.

3. Coordination and Approval. The AFCFM is the approval authority. MAJCOM representatives and AETC training personnel will identify and coordinate career field training requirements. The AETC Training Manager (82 TRG/360 TRS/TRR) responsible for AFSC 21AX will initiate an annual review of this document by AETC and MAJCOM Functional Manager (MFMs) to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training to ensure currency and accuracy.

PART I

Section B - CAREER FIELD PROGRESSION AND INFORMATION

1. **Purpose.** This section provides information for career field functional managers, commanders, supervisors, trainers, and the technical training centers to plan career field progression in the Aircraft Maintenance Officer specialty. It also describes the function and responsibilities of the 21AX AFSC.

2. **21AX Specialty Description:** Entry AFSC 21A1 and Qualified AFSC 21A3 are Aircraft Maintenance Officers; and 21A4 AFSC is Aircraft Maintenance Staff Officer.

2.1. **Specialty Summary.** Leads, trains, and equips personnel supporting aircraft sustainment and operations. Manages maintenance and modification of aircraft and associated equipment. Administers aircraft maintenance programs and resources. Directs aircraft maintenance production, staff activity, and related materiel programs. Assesses unit capability and advises senior leadership. Related DoD Occupational Groups: 4D.

2.2. 21A1 & 21A3 Duties and Responsibilities.

2.2.1. Directs aircraft maintenance operations activities. Maintains workforce discipline and responds to personnel issues while balancing workforce availability and skill levels with operational requirements. Works with functional managers to develop, formulate, and manage the budget. Instills maintenance discipline, security awareness and force protection concepts. Ensures accuracy of documentation in aircraft forms and automated systems. Ensures adherence to technical data, policy, procedures and safe maintenance practices.

2.2.2. Develops, coordinates, and executes flying and maintenance schedules. Manages aircraft configuration; daily aircraft servicing, weapons loading, launch, recovery, and repair; periodic aircraft maintenance inspections; and flightline safety and foreign object damage (FOD)/dropped object prevention (DOP) programs. Monitors overall aircraft fleet health and ensures aircraft availability to execute mission requirements. Analyzes aircraft maintenance indicators to identify trends and initiates corrective actions.

2.2.3. Directs maintenance activities that may include aircraft propulsion, pneudraulics, egress, fuel systems, electro-environmental, and avionics systems. Also may include management of aerospace ground equipment, structural repair, corrosion control, survival equipment, machine, welding, inspection, aero-repair, non-destructive inspection, and off-equipment munitions and armament suspension equipment.

2.2.4. Manages lead agencies, responsible for quality assurance, maintenance training, budget and resource management, analysis, facilities, shared resources to include end-of-runway and weapons load training. Manages plans and programs support requirements, modifications, and modernization.

2.2.5. Formulates maintenance plans and policies to meet unit taskings. Assesses unit maintenance capability in support of combat related operational plans and provides inputs for capability assessments for each plan. Defines aircraft maintenance procedures and requirements in response to emergency/ contingency situations.

2.2.6. Coordinates key core logistics requirements supporting aircraft maintenance operations. Establishes support requirements for supply requisition, repair cycle, delivery, combat support, ground and aerial port transportation, base support plans, and munitions requirements.

2.2.7. Directs and manages depot maintenance activities to encompass wholesale logistics life cycle

sustainment support. Coordinates production schedules to include induction and selling systems. Manages Combat Logistics Support Squadrons (CLSS) workloads and personnel. Defines technical problems and economic factors related to research and development, and system operational data to evaluate programs, assess trends, and identify improvements and deficiencies. Manages weapons system programs, the bargaining unit workforce, funding of depot maintenance workloads, and transportation distribution systems. Manages logistics tests and evaluation on new acquisition programs and aircraft modifications.

2.3. 21A4 Duties and Responsibilities:

2.3.1. Directs the integrated maintenance process. Develops maintenance support policies, procedures, and systems, and provides guidance for implementation. Prepares and implements directives to assure effective maintenance support. Establishes and enforces standards, and ensures assigned work force is properly trained and equipped. Assesses unit capability and coordinates with other agencies on issues impacting personnel, weapon systems, and equipment readiness. Advises the commander on readiness of personnel, weapon systems, and equipment. Assesses, evaluates, and determines effectiveness of data systems through analysis and application of output products. Identifies and corrects system deficiencies to meet mission requirements and enhance safety. Coordinates programming of resources with functional managers and participates in fiscal policy and budget formulating and managing.

2.3.2. Directs joint planning. Accomplishes joint logistics planning for warfighting support and sustainment with the Joint Staff, Unified Commands, other military services, and Office of Secretary of Defense agencies. Serves as maintenance focal point to coordinate with DoD, joint organizations, major commands, representatives of foreign governments, and government contractors for international maintenance and security assistance matters. Advises Allied Air Forces in developing policies and procedures to integrate all facets of maintenance and maintenance support concepts.

2.3.3. Directs acquisition and wholesale maintenance activities. Plans for and manages systems, subsystems, and equipment throughout its life cycle, including integrated maintenance support activities during the acquisition phase. Develops, initiates, integrates, and manages all maintenance actions associated with life cycle management of weapon systems, subsystems, and equipment. Serves as program office focal point for maintenance throughout the acquisition life cycle. Plans and develops maintenance support for current and emerging systems. Participates in formulating fiscal policy for managed weapon systems.

3. Skill/Career Progression and Certification. Quality training and timely progression through skill levels play an extremely important role in the Air Force's ability to accomplish its mission. Therefore, it is essential senior leaders involved in training do their part to plan, develop, manage, conduct, and evaluate an effective and efficient training program. The guidance provided in this part of the CFETP will ensure officers receive correct training at appropriate points in their career. The following narrative and the AFSC 21AX career field tables (Tables 1 and 2) identify the training career path and define the training required. Generally, skill-level progression is associated with three levels of certification. The certification process reflects the education, training, and duty experience gained by the officer through a formal orientation program and is illustrated in Table 2.

3.1. Entry Level. Initial assignments should establish and build depth of knowledge and technical expertise within the aircraft maintenance career field. Maintenance Group Commanders will expose new officers to the entire mission of the unit.

3.1.2 Basic Certification. Representative grades are normally 0-1 through 0-3. Completion of formal AETC entry-level training is required for basic certification.

3.2. Intermediate Level. Company grade officers should begin to broaden their breadth of knowledge, experience, and expertise. During this time, career broadening opportunities must be considered to increase an officer's potential for career progression by pursuing maintenance crossflow and career broadening assignments. Primary crossflow should be into munitions maintenance. Career broadening in other logistics/operations programs is also encouraged. This should normally occur after the company grade officer has held two different positions within aircraft maintenance. Back-to-back career broadening assignments are strongly discouraged.

3.2.1 Senior Certification. Representative grades are normally 0-3 through 0-4. An officer will be eligible for the Senior level at the seven-year mark in the specialty provided he/she has completed the education and training requirements specified in Table 2. Officers should complete CFETP core requirements within 24 months being assigned to a 21A position to be eligible for the award of the Senior certification. Although it is highly desirable to complete the education and training requirements for senior certification within 24 months, ARC members may extend this requirement to 36 months to accommodate their unique time availability constraints.

3.3. Staff and Senior Level. At the field grade level, an officer will continue to broaden expertise while strengthening their background in maintenance through leadership and staff assignments. During this time, they should pursue those opportunities that make them viable for squadron command and subsequent selection for group command or a key senior maintenance officer position.

3.3.1. Master Certification. Representative grades are normally 0-4 and higher. An officer will be eligible for the Master level at the 15-year mark provided he/she has completed the education and training requirements specified in Table 2. Officers within this level of competency are ready to assume broader leadership roles.

3.3.2. Grandfather Plan: Officers with less than 24 months time in commissioned service will be required to complete all requirements **for senior certification and award of the fully qualified 21A3 AFSC (TAFCS D 1 Jan 2002 and later)**. Officers with **less than 7** years of commissioned service will be required to complete the Maintenance Officer Intermediate Course (**1 Jan 1997 TAFCS D and later**) and meet the time in core AFSC criteria in order to obtain their senior certification. Officers with between 7 and 13 years of commissioned service will automatically receive their senior level certification and be required to meet the education and experience requirements for the master level certification (**TAFCS D between 1 Jan 1991 and 31 Dec 1996**). Officers with between 13 and 15 years commissioned service will be required to meet the time in core AFSC criteria in order to obtain their master certification (**TAFCS D between 1 Jan 1989 and 31 Dec 1990**). Officers with over 15 years commissioned service will automatically receive their master level certification (**TAFCS D of 31 Dec 1988 or earlier**).

4. **Training Decisions.** The CFETP captures the entire spectrum of training requirements for the Aircraft Maintenance Officer Specialty using a building block approach (simple to complex). Included in the spectrum is the strategy of when, where, and how to meet the training requirements.

4.1. Initial Skills. Initial skills training will be developed and taught by AETC. The CTSs were developed to establish the training requirements in a behavioral statement format. The CTSs are listed in Part II, Section A.

4.2. Qualification training. The following types of training will develop officers within AFSC 21AX:

4.2.1. Follow-on training. Unit training for Aircraft Maintenance Officers, as spelled out in Part II, Section C, is continuation training and contains task/knowledge requirements.

4.2.2. Proficiency Training. Proficiency training will follow OJT task list Part II, Section C.

4.3. Enhancement training. Different types of training are available to fully develop officers within AFSC 21AX, see Part II, Section D.

21AX AIRCRAFT MAINTENANCE OFFICER TRAINING FLOW Second Lieutenant Accessions	
0 - 4 Months	21A1: AMOC (14 weeks) and award entry level AFSC. Awarded Basic certification.
4 - 7 Months	Unit follow-on training and CFETP. Eligible to start working on Senior certification.
24 Months	Promotion to First Lieutenant. Award AFSC 21A3.
48 Months	Promotion to captain, SOS window begins. Eligible for crossflow to 21MX positions. Continue to work on requirements for Senior certification. Eligible for career broadening opportunities.
4 Years	Maintenance Officer Intermediate Course (MOIC) window begins.
8 Years	Opportunities for staff level positions open: 21A4. SOS window ends.
9-13 Years	IPZ promotion to major, IDE windows begin, opportunities begin for award of Senior Certification with completion of Maintenance Officer Intermediate Course.
15-17 Years	IPZ selection to lieutenant colonel, SDE window begins. Should obtain Master certification.
19-22 Years	SDE window ends, IPZ selection to colonel.

Table 1. Aircraft Maintenance Officer Training Flow (Accessions)

5. **Aircraft Maintenance Career Path/Training Flow.** Experience and knowledge in this Air Force specialty will help an officer plan and achieve their Air Force career goals as an Aircraft Maintenance Officer. There are certain jobs or experiences in this discipline that will assist them in meeting individual goals. Tables 1 and 2 describe the career path/training opportunities and outline when training is required for career progression within this specialty.

5.1. When initially assigned to aircraft maintenance, officers are expected to build depth through technical experience within the aircraft maintenance arena. Unit level Aircraft Maintenance Officers are initially assigned to one of three separate, but related unit-level responsibilities: organizational-level maintenance squadron, intermediate-level maintenance in a maintenance squadron, or MXG Staff.

5.2. Organizational-level maintenance production includes responsibility for on-aircraft maintenance; preparing aircraft for flight, routine flight line maintenance, refueling operations, towing, servicing hydraulics and oil, and launching and recovering aircraft. The paperwork side of aircraft sortie production includes responsibility for the weekly, monthly, and long-range flying maintenance and training schedules, aircraft utilization, certifying air-worthiness, and monitoring aircraft modifications and retrofit programs.

5.3. Intermediate-level maintenance production includes responsibility for off-aircraft maintenance; repairing parts and components, bench testing and checking parts, rebuilding parts, engine repair and spare utilization, fuel cell and fuel system related repairs, heavy maintenance and inspection functions, and aircraft corrosion and painting programs.

Aircraft Maintenance Officer Certification				
To obtain ⇒ Must complete ↓	Basic	Eligibility for 21A3 certification levels	Senior	Master
Training		Training Requirements in this CFETP	MOIC Or AMMOS	
Education	Entry-level AETC Formal Training Course: AMOC or Accel AMOC	CFETP Core tasks & unit commander/supervisor identified tasks	Complete 2 of the following courses (1 for ARC): 21M Bridge Course AFIT Graduate of Logistics Mgmt program AFIT LOG 032/131/132/199/262/299 AFIT REQ 111 AFIT SYS 170/172/173/350/352 AMQ 100-000 ASAM AU OSCC DAU ACQ 101 (Web-based)/201A/B DAU LOG 101 (Web-based)/102/201A/B /203/204 DAU PMT 250 or PQM 101/201A/B DAU TST 101 DNWS NWOC/TNOC/RECTOR ISFC/ISIOC NATO School I-11 DTRA: Nuclear Weapons Orientation Course USAFE University, Nuclear College: Nuclear Manager's Course/Munitions Accountable Systems Officer/ Nuclear Ordnance Control Material Course DAU Intro to Lean Enterprise Concepts DAU Lean 6 Sigma AMIC/JEMIC/AFCOMAC Contingency Wartime Planners Course Logistics Career Broadening Program	1 of the following: AFIT LOG 260/399/499 DAU LOG 203 204/235A/B/304 DAU LOG 201/205 DAU Intro to Lean Enterprise Concepts DAU Lean 6 Sigma Logistics Career Broadening Program
Experience		Successfully complete any core 21A/M job-unit level such as: Commander of: Sortie Support/Avionics/Propulsion/Accessory/Fabrication/Quality Assurance/AGE /Munitions Flt CC Aircraft Maint Unit OIC MASO	Successful completion of 7 years duty in core 21A/21M AFSC. One of the following: Maintenance Operations Officer (MOO) Aircraft Maintenance Unit OIC Commander, Maintenance Flight Depot Maintenance MAJCOM/NAF Staff Maintenance Supervisor AMMOC/Instructor	Successful completion of 15 years in core (21A/M) total Active duty will also have any 2 of the following duty positions: Command/ 20C0 (Deputy MXG) MAJCOM/Air Staff Depot / Acquisition Joint logistics duty Cross flow to 21M or 21R AFSC

Table 2. Aircraft Maintenance Officer Certification

Aircraft Maintenance Officer Career Development

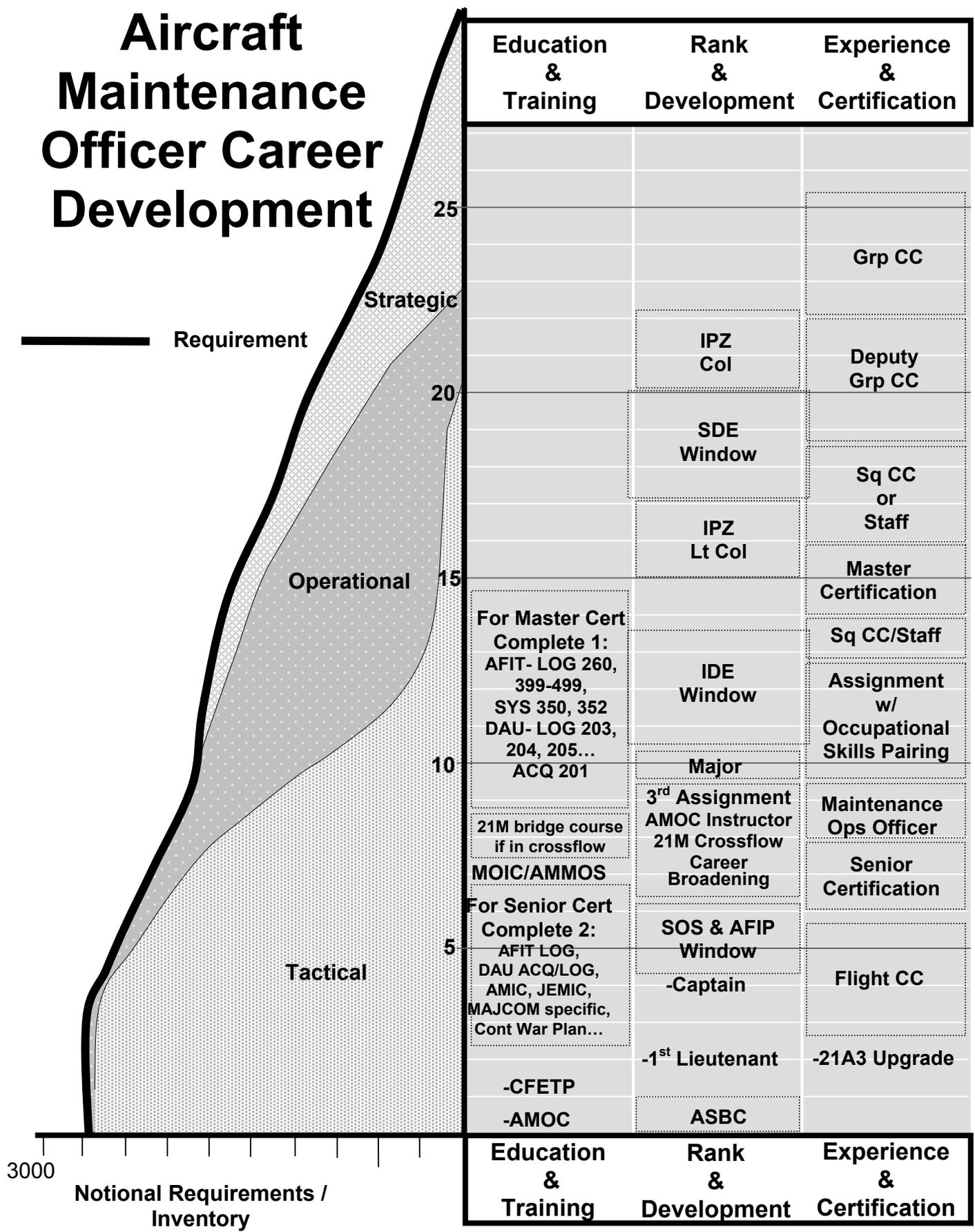


Table 3. Aircraft Maintenance Officer Career Development

5.4. All facets of unit-level aircraft maintenance provide ample opportunities to supervise airmen of all ranks and experience levels. It is common to find Aircraft Maintenance Officers leading and supervising as few as 30 technicians on their first assignment, to as many as 200 during their second assignment. Several permanent change of station (PCS) moves are normally required for you to experience the breadth of unit aircraft maintenance opportunities to sufficient depth. When contemplating such a move, keep in mind the following:

- A change in weapon system supported--will give you a broad view of the differences in weapon system complexity, supportability, and deployability.
- A balanced approach to professional development--seek opportunities on both sides of unit level maintenance, both organizational and intermediate at your current assigned station.
- Short-tour overseas assignments represent prime opportunities to quickly fill gaps in your professional development, and to hone skills in a typically austere environment.
- A change in major command (MAJCOM)--be mindful of the fact that experience in several different MAJCOMs will give you a broader view of the total Air Force mission and a deeper understanding of how all the "pieces" fit together. This knowledge will lay the foundation for success on the Air Staff or Joint Staff.

5.5. Upon completion of your second tour in aircraft maintenance, a variety of new options become available. You have the opportunity to:

- Concentrate on building depth by leading a larger flight or branch or leading squadron maintenance activities as a maintenance operations officer.
- Crossflow into Munitions/Missile Maintenance or other logistics disciplines to develop breadth of experience.
- Compete for Air Force Institute of Technology (AFIT) Degree Programs. Officers graduating from these programs are typically assigned to staff positions.
- Career broaden into an Air Force Special Duty, Identified with an Air Force Specialty Code (AFSC). Opportunities such as: United States Air Force Academy (USFA), Reserve Officer Training Corps (ROTC), Squadron Officers School (SOS), and Officer Training School (OTS) instructors, Recruiting Flight Commander, command and control operations, and operations support officers. These jobs are available to a limited number of Aircraft Maintenance Officers. Release is contingent on career field dynamics and officers return to their "core" AFSC following the career broadening tour.

5.6. The technical foundation you build early in your career will pay great dividends as a staff officer. Staff billets above the wing level for maintenance officers are available at NAF, MAJCOM, HQ Air Force, joint service agencies, Direct Reporting Unit (DRU), and field operating agencies.

5.7. A certain percentage of those officers selected for major will be identified as candidates for resident Intermediate Developmental Education (IDE). Many IDE students will go to a challenging joint-duty staff assignment, commander, MAJCOM, or Air Staff level job upon graduation. Officers not afforded the opportunity to attend Professional Military Education (PME) in residence must complete PME by correspondence or seminar to remain competitive in their Air Force career progression.

5.8. Command billets exist at several levels. Captains can compete for detachment commander positions; majors and lieutenant colonels can compete for squadron command positions. Assignments for lieutenant colonels include opportunities to serve as squadron commanders, in joint duty positions, higher headquarter staff positions, as ROTC detachment commanders, and deputy maintenance group

commanders.

5.9. Officers selected for promotion to lieutenant colonel or colonel will also have the opportunity to vie for in-residence attendance at SDE. Upon graduation, officers may be assigned to the Air Staff, joint-duty billets, or chosen for command at the group level. How well you do in your current job is the most important factor in determining your future success.

5.10. Challenges facing Air Force maintenance officers today and especially in the future are more complex than ever and require a broad base of maintenance experience, knowledge, and expertise. Maintenance officers with a balanced combination of depth and breadth are better prepared for command and senior officer positions. They must understand the interdependence of maintenance processes.

5.11. Officers will develop depth on their first assignment by gaining experience both as a leader and a functional expert. As they progress, officers will gain experience and depth that will ultimately lead to becoming a fully qualified maintenance officer (21A3). A limited number of officers will have the opportunity to crossflow into the munitions/missile maintenance career field. Upon completion of training, at least two-years experience is required in the munitions discipline. All officers must attend the Maintenance Officer Intermediate Course. A minimum of four years of experience is recommended before crossflowing into a second functional area. A minimum of 24 months of experience is required to become fully qualified in the second functional area. Maintenance officers will also gain valuable experience in their development while assigned to a headquarters staff position and during a tour as a maintenance supervisor.

6. Acquisition Specialization. The Acquisition Professional Development Program (APDP) was established to ensure career development within designated acquisition and logistics career fields. APDP was initiated to develop acquisition managers capable of assuming middle or senior management roles within the acquisition arena. Selected officers may elect to pursue certification in acquisition specialties. There are three progressive levels of professional acquisition certification. The certification levels are defined by mandatory and desired standards (education, training, and experience). Basic education standards (normally academic standards) will be met for the particular acquisition specialty before the officer will be permitted entry into the acquisition position. Training and experience standards are normally fulfilled following entry into the designated acquisition position.

6.1. Acquisition Specialties: Acquisition Specialties that either directly or indirectly interfaces with maintenance include:

6.1.1. Program management, acquisition logistics, contract management, resource management, manufacturing management, engineering, and test and evaluation.

6.2. Acquisition Certification levels. The certification levels provide a framework for progression within the acquisition career field. The certification levels are:

6.2.1. Level I (Entry). Representative grade levels are normally O-1 through O-3. Training standards are designed to establish fundamental qualifications and expertise for the career field. Level I lays the foundation for career progression. An officer at this level should be exposed to the functions of acquisition and its roles.

6.2.2. Level II (Intermediate). Representative grade levels are O-3 through O-4. At this level, specialization within an acquisition discipline is emphasized.

6.2.3. Level III (Senior). Representative grade levels are O-4 and above. The officer has completed all mandatory training and education requirements, and should have advanced through a career pattern that has given a depth of knowledge across the entire acquisition process.

PART I

Section C - PROFICIENCY TRAINING REQUIREMENTS

1. **Purpose.** The proficiency training requirements in the 21AX career field are defined in terms of task and knowledge requirements for each skill level in the Aircraft Maintenance Officer Specialty. They are stated in broad, general terms and establish the standards of performance. The specific knowledge training requirements are identified in Part II.

2. **Company Grade Aircraft Maintenance Officer Specialty Qualifications:** 21A1 and 21A3.

2.1. Knowledge. The following knowledge is mandatory for award of the AFSC indicated:

2.1.1. 21A3. Maintenance management procedures, and organizational and mission requirements; capabilities, limitations, and basic operating principles of aircraft systems and components; theory of flight and airframe construction; quality assurance; production control and maintenance data collection procedures; supply, transportation, logistics plans, contracting, flying operations, munitions units, civil engineering, and other unit operations related to aircraft maintenance units.

2.2. Education. For entry into this specialty, an undergraduate academic degree in management, business administration, economics, mathematics, science, engineering, computer science, maintenance management, logistics management, or space operations is desirable.

2.3. Training. See Table 2.

2.4. Experience. See Table 2

2.5. Training Sources/Resources. A list of training courses to support education and training is in Part II, Section D.

3. **Company Grade Aircraft Maintenance Staff Officer Specialty Qualifications:** 21A4.

3.1. Knowledge. The following knowledge is mandatory for award of the AFSC indicated:

3.1.1. Mandatory knowledge for those entering an aircraft maintenance staff officer position (MAJCOMs, Air Staff, etc...) include: Maintenance management procedures; organizational and mission requirements; capabilities, limitations, and basic operating principles of aircraft systems and components; theory of flight and airframe construction; quality assurance; production control and maintenance data collection procedures; supply, transportation, logistics plans, contracting, flying operations, munitions units, civil engineering, and other unit operations related to aircraft maintenance units. In depth practical experience in the management, sustainment, and employment of aircraft to include thorough knowledge/experience in AEF concepts of operation and mobility; thorough knowledge in all aspects of aircraft maintenance; requirements sustainment, and operations management; thorough understanding and technical background in all required data collection and accountability systems.

3.2. Education. Master's degree in management or business administration with emphasis on management is highly desirable.

3.3. Training. 21A4 Training is same as 21A3. See Table 2.

3.4. Training Sources/Resources. A list of all training courses to support education and training is in Part II, Section D.

4. Field Grade Maintenance Officer Qualification: 21A3/4

4.1. Maintenance Officer Specialty Qualifications: Qualified AFSC 21A3; Staff AFSC 21A4.

4.2. Knowledge. Knowledge of aircraft maintenance from acquisition to operational maintenance is important. Officers must understand an integrated approach to maintenance disciplines to support warfighting, operational, and training requirements.

4.3. Education. For entry into this specialty, an advanced degree in maintenance management, logistics management, acquisition logistics, or business administration is desirable.

4.4. Training. For award of AFSC 21A3, completion of AMOC or Accelerated AMOC is mandatory.

4.5. Experience. For award of AFSC 21A3, Officers will attain full certification in the aircraft maintenance discipline, see Table 2.

PART I
Section D - RESOURCE CONSTRAINTS

1. **Purpose.** This section of the CFETP identifies known resource constraints which preclude minimal/desired training from being developed or conducted. This section includes a narrative explanation of each resource constraint and impact statement describing what effect each constraint has on training. Also identified in this section are the resources needed to satisfy training requirements. Finally, this section includes action required, identifies the OPR, and establishes target completion dates. Resource constraints will be, at a minimum, reviewed and updated annually.

1.1. No constraints raised by any MAJCOMs at this time.

PART II

Section A - TRAINING AND COURSE TRAINING STANDARDS

1. **Purpose.** Establish training standards for the 21AX training courses:

1.1. Behavioral statements and task requirements. These are based on an analysis of the duties contained herein.

1.2. Formal training requirements. As indicated in the behavioral statement, describes the level to which task and knowledge training should be accomplished by AETC.

2. **Records Documentation.** CFETP will be issued at first duty station. Completion of training will be documented and certified. SQ/CC will document AMOC training completion in the officer's CFETP in the table at Attachment 1, Training Completion Certification. The squadron commander will document unit follow-on training using the training task table in Part II, Section C. The officer's squadron commander is responsible for certifying that the officer has completed all formal training and is task knowledgeable. The commander will document this in the table at Attachment 1, Training Completion Certification.

3. **Aircraft Maintenance Officer Training Requirements by Course.** The following Course Training Standards (CTS) list the training requirements needed by the users and are broken out by training course (AMOC, AMOC Accelerated – Company Grade and AMOC Accelerated Field Grade)

3.1. **Aircraft Maintenance Officer Course (AMOC) Training.** Required for all officers assigned to an aircraft maintenance position.

3.1.1. Aircraft Applications Focus. AMOC students must understand aircraft maintenance operations in a wartime environment vs. peacetime environment.

3.1.2. AMOC has an Accelerated course for those 21M or logistics officers crossflowing into aircraft maintenance.

3.1.3. In the event of war, the course will be presented in its entirety.

3.1.4. Formal Training. AMOC is AETC formal training. The AMOC CTS lists the formal initial skills training requirements.

3.1.5. Graduate Assessment Survey (GAS)/Field Evaluation Questionnaire (FEQ). Unit supervisors will submit responses to GASs and FEQs on officers who complete formal training at Sheppard AFB. Respond to GASs and FEQs when received from the technical training group (82 TRG/TGAV). (Reference AFI 36-2201).

**COURSE TRAINING STANDARD (CTS)
AIRCRAFT MAINTENANCE OFFICER (AMOC) COURSE
J3OBR21A1 006**

Behavioral Statements

1. Support Equipment

- 1.1. Describe the types and uses of common non-powered support equipment
*** (Observe conditions & safe operation of non-powered AGE)
- 1.2. Describe the types and uses of common powered support equipment
*** (Observe conditions & safe operation of common powered AGE)
- 1.3. Describe the types and uses of common ground-handling equipment
- 1.4. Describe the types and uses of common tools
*** (Observe CTK inspection)
- 1.5. Describe the types and uses of test equipment
- 1.6. Identify support equipment management requirements (including Tool Accountability System (TAS))

2. Airframe

- 2.1. Define basic principles of aerodynamics
*** (Observe flight control operation)
- 2.2. Identify aircraft structural components and their functions
- 2.3. Identify aircraft structural materials
- 2.4. Describe aircraft structural inspection
- 2.5. Describe methods and procedures for flight control maintenance

3. Aircraft Accessories

- 3.1. Describe operating principles of hydraulic systems
*** (Observe selected hydraulic sys maintenance actions)
- 3.2. Describe types and characteristics of various aircraft fuels
- 3.3. Describe operating principles of fuel system components
*** (Observe selected fuel system maintenance actions)
- 3.4. Describe operating principles of aircraft air conditioning system components
- 3.5. Describe operating principles of aircraft oxygen system components
*** (Observe LOX servicing)
- 3.6. Describe operating principles of aircraft pressurization system components
- 3.7. Describe operating principles about aircraft ice prevention systems
- 3.8. Describe operating principles of electrical systems and components
*** (Observe selected electrical system maintenance actions)
- 3.9. Describe operating principles of aircraft fire indication and extinguishing systems
- 3.10. Describe operating principles of aircraft egress system

4. Avionics

- 4.1. Describe the operating principles of aircraft radio systems
- 4.2. Describe the operating principles of aircraft instruments
- 4.3. Describe the operating principles of aircraft navigation systems
- 4.4. Describe the operating principles of airborne radar systems
- 4.5. Describe the operating principles of aircraft automatic flight control systems
- 4.6. Describe the operating principles of weapon control/bomb navigation system
- 4.7. Describe the operating principles of sensor systems
- 4.8. Describe the operating principles of electronic warfare systems

5. Propulsion Systems

- 5.1. Describe the various types and principles of gas turbine engine operation
*** (Observe selected engine system maintenance actions)
- 5.2. Describe the operating principles of gas turbine engine systems and sections

6. Munitions Orientation

- 6.1. Identify selected conventional munitions and components
- 6.2. Identify selected guided systems and components
- 6.3. Describe munitions security requirements

7. Munitions Flight Organization

- 7.1. Define the duties and responsibilities within a Munitions Flight

8. Physical Security/Resource Protection

- 8.1. Describe force protection procedures
- 8.2. Identify requirement for resource protection

9. Explosive Safety

- 9.1. Describe aircraft and munitions explosive safety requirements
- 9.2. Describe electrical hazards protection requirements for explosives
- 9.3. Describe fire fighting symbols and procedures
- 9.4. Identify the requirements for transportation of munitions

10. Munitions Build-up

- 10.1. Describe a daily fragmentary order and how its change affects aircraft generation requirements
- 10.2. Describe munitions build-up operations

11. Armament

- 11.1. Describe the operating principles of aircraft gun systems
- 11.2. Describe the operating principles of aircraft weapons release systems
*** (Observe selected weapons maintenance actions)
- 11.3. Describe facts about the weapons standardization program

12. Air Force Publication Systems

- 12.1. Describe the various levels and formats of Air Force publications
- 12.2. Define the use and application of technical orders

13. Maintenance Forms

- 13.1. Perform the procedures for the accomplishment of exceptional release, maintenance downgrades, one-time flight authorization, and impoundments

14. Maintenance Organization/Functions

- 14.1. Describe the working interface between logistics and operation production managers
- 14.2. Describe base-level maintenance organization
- 14.3. Define the functional responsibilities of maintenance staff agencies
- 14.4. Define the functional responsibilities of maintenance shops and sections
*** (Observe landing gear and cargo operation)
- 14.5. Develop a workcenter production plan (day-to-day, deployed, back shop, flight line)
- 14.6. Define the functional responsibilities of maintenance managers
- 14.7. Define maintenance responsibilities of and interaction with the Air Force Material Command
- 14.8. Describe components of the total force (including Air Reserve Technician (ART), Air Reserve Component (ARC) organization structure, unit equipment and associate, ANG Technician)

15. Personnel

- 15.1. Describe the maintenance/munitions officer career path
- 15.2. Describe the maintenance officer role in enlisted professional development (including recognition, counseling, Professional Military Education (PME), promotable progression, etc.)
- 15.3. Describe the enlisted training program
- 15.4. Identify facts about the civilian personnel system
- 15.5. Identify facts related to Unit Manpower Requirements.
- 15.6. Prepare presentations on assigned topics related to maintenance officer professional development

16. Resource Management

- 16.1. Identify elements of the resource management system

17. Programs

- 17.1. Describe the quality assurance programs
- 17.2. Describe the aircraft modification program
- 17.3. Describe the Time Compliance Technical Order (TCTO) process
- 17.4. Describe the Comprehensive Engine Management System (CEMS)
- 17.5. Describe the reliability and maintainability programs
- 17.6. Describe Air Force preventive maintenance programs
- *** (Observe selected aircraft inspections)
- 17.7. Describe the corrosion control program
- 17.8. Identify user responsibilities for maintenance of Test, Measurement, and Diagnostic Equipment (TMDE)
- 17.9. Identify facts about Foreign Object Damage (FOD) and Dropped Object Program (DOP)

18. Air Force Occupational Safety and Mishap Prevention

- 18.1. Describe the principles of Air Force Occupational Safety and Health (AFOSH) and mishap prevention
- 18.2. Describe unit safety programs and associated documentation
- 18.3. Identify unsafe situations which may be encountered in the maintenance environment
- *** (Identify danger areas in and around aircraft)
- 18.4. Describe principles of Operational Risk Management (ORM)

19. Environmental Protection

- 19.1. Identify the application of Environmental Protection Agency (EPA) laws to aircraft maintenance
- 19.2. Identify examples of hazardous waste minimization techniques
- 19.3. Identify facts about Hazardous Communication (HAZCOM)

20. Nuclear Weapons Familiarization

- 20.1. Identify the fundamentals of the Nuclear Surety Program (including the two person concept)

21. Planning

- 21.1. Develop a monthly, weekly, and daily aircraft utilization and maintenance program

22. Status and Measurement

- 22.1. Identify facts about the various maintenance information systems
- 22.2. Describe the purpose and uses of various maintenance indicators
- 22.3. Describe the purpose and use of Status of Resources and Training System (SORTS) reports

23. Logistics

- 23.1. Identify supply functions and sources
- 23.2. Describe supply procedures pertaining to maintenance
- 23.3. Describe the Due In From Maintenance (DIFM) process
- 23.4. Describe maintenance and supply interfaces
- 23.5. Describe the functions of base-level contracting services and user responsibilities
- 23.6. Describe the functions of the base-level Logistics Readiness Squadron (include transportation, supply, and readiness)

24. Operations

- 24.1. Describe base-level flying operations and supporting logistics functions
- 24.2. Define emergency action plan and contingency situations

25. Unit Level Maintenance

- 25.1. Describe common practices and procedures relating to aircraft maintenance
*** (Identify marshalling and tow team operations)
- 25.2. Describe procedures for flight line communication
- 25.3. Perform the procedures for aircraft sortie generation
- 25.4. Describe the daily munitions operations process

26. Contingency Operations

- 26.1. Describe the elements of an exercise, deployment, and base support plans
- 26.2. Develop the logistics portion of a bare-base operation plan

27. Air Force Inspection Programs

- 27.1. Describe Air Force inspection programs

28. AF Doctrine

- 28.1. Describe agile combat support
- 28.2. Describe Air And Space Expeditionary Forces (AEF) and Total Force Concept of Operations

Note: All asterisked items will not have specific objectives written on them, but will be written into the Instructional Guidance of the Plan of Instruction as flight line observational hours.

3.2. Aircraft Maintenance Officer Bridge Course. Course provides focused training for experienced munitions/missile maintenance officer's crossflowing into an aircraft maintenance assignment.

3.2.1. Aircraft Applications Focus. AMOC students must understand aircraft maintenance operations in a wartime environment vs. peacetime environment.

3.2.2. In the event of war, the entire course will be presented.

3.2.3. Formal Training. The AMOC Bridge is AETC formal training. The AMOC Bridge course training standard (CTS) lists the formal training requirements.

3.2.4. Graduate Assessment Survey (GAS)/Field Evaluation Questionnaire (FEQ). Unit supervisors will submit responses to GASs and FEQs on officers who complete formal training at Sheppard AFB. Respond to GASs and FEQs when received from the technical training group (82 TRG/TTS). (Reference AFI 36-2201).

**COURSE TRAINING STANDARD
AIRCRAFT MAINTENANCE OFFICER BRIDGE COURSE
(J3OLR21A1 008)**

Behavioral Statements

1. Munitions

- 1.1. Identify selected conventional munitions and components
- 1.2. Identify selected guided systems and components
- 1.3. Identify unsafe situations pertaining to explosive handling operations
- 1.4. Identify conventional munitions accountability procedures

2. Armament

- 2.1. Identify selected aircraft gun systems and components
- 2.2. Identify selected aircraft weapons release components
- 2.3. Describe the aircraft loading process

3. Corrosion Control/Non-Destructive Inspection

- 3.1. Describe the types, prevention, and treatment of corrosion
- 3.2. Identify methods of Non-Destructive Inspection used on aircraft structural materials

4. Air Force Publication Systems

- 4.1. Define the use and application of technical orders (T.O.)
- 4.2. Describe the methods used to keep TOs current

5. Maintenance Forms

- 5.1. Perform the procedure for the accomplishment of exceptional releases and maintenance downgrades
- 5.2. Perform maintenance upgrade and symbols entered in error

6. Maintenance Organization/Functions

- 6.1. Define a basic maintenance organization
- 6.2. Define the functional responsibilities of maintenance staff agencies
- 6.3. Define the functional responsibilities of maintenance shops and sections
- 6.4. Identify the levels of maintenance
- 6.5. Define the functional responsibilities of maintenance managers
- 6.6. Define maintenance responsibilities of the Air Logistic Centers (ALC)
- 6.7. Describe components of the total force

7. Personnel

- 7.1. Describe the maintenance/munitions officer career path
- 7.2. Describe the maintenance officer role in enlisted career development
- 7.3. Identify facts about the civilian personnel system
- 7.4. Identify facts about manpower management
- 7.5. Describe the maintenance training process

8. Resource Management

- 8.1. Identify elements of the resource management system
- 8.2. Describe the process of squadron level budgeting
- 8.3. Describe the cost per flying hour program

9. Programs

- 9.1. Describe the Quality Assurance programs
- 9.2. Describe the modification program
- 9.3. Describe the Time Compliance Technical Order (TCTO) process
- 9.4. Describe the purpose of the Engine Analysis System Program
- 9.5. Describe the purpose of the Propulsion Management Program
- 9.6. Describe the current reliability and maintainability programs
- 9.7. Describe the preventive maintenance process
- 9.8. Describe the foreign object damage (FOD) prevention process
- 9.9. Describe the Integrated Weapon System Management process
- 9.10. Describe depot work specifications
- 9.11. Define depot compression/acceleration
- 9.12. Identify user responsibilities for maintenance of Test, Measurement, and Diagnostic Equipment (TMDE)
- 9.13. Describe the Dropped Object Prevention (DOP) Program

10. Air Force Occupational Safety and Mishap Prevention

- 10.1. Describe Air Force Occupational Safety and Health (AFOSH) & mishap prevention programs
- 10.2. Identify unsafe situations that may be encountered in maintenance

11. Environmental Protection

- 11.1. Identify the application of Environmental Protection Agency (EPA) laws to the maintenance environment
- 11.2. Identify examples of hazardous waste minimization techniques
- 11.3. Identify facts about Hazardous Communications (HAZCOM)

12. Planning

- 12.1. Identify facts about maintenance planning
- 12.2. Develop a monthly, weekly, and daily aircraft utilization plan

13. Status and Measurement

- 13.1. Determine aircraft status
- 13.2. Identify facts about the various maintenance information systems
- 13.3. Describe the purpose and uses of maintenance indicators
- 13.4. Describe the purpose and uses of Status of Resources and Training System (SORTS) reports

14. Logistics

- 14.1. Describe the functions of the Logistics Readiness Squadron
- 14.2. Describe supply procedures pertaining to maintenance
- 14.3. Outline the Due In From Maintenance (DIFM) process
- 14.4. Describe maintenance and supply interfaces
- 14.5. Describe the functions of contracting services

15. Operations

- 15.1. Describe the functions of base-level flying operations
- 15.2. Define emergency action plans and contingency situations

16. Unit Level Maintenance

- 16.1. Describe common practices and procedures relating to aircraft servicing operations
- 16.2. Describe common practices and procedures relating to aircraft maintenance
- 16.3. Describe common practices and procedures relating to aircraft ground handling operations
- 16.4. Describe the procedures for aircraft sortie generation
- 16.5. Describe the daily munitions operation process

17. Contingency Operations

- 17.1. Describe mobility deployment plan
- 17.2. Describe the Aircraft Battle Damage Repair program
- 17.3. Describe the Air And Space Expeditionary Forces (AEF) concept

18. Applied Leadership & Quality Management

- 18.1. Define leadership and management skills as they relate to the maintenance environment

3.3. Aircraft Maintenance Officer (Accelerated/Air Reserve Component – Company Grade) Course. This course is an AFSC awarding course and required for officers broadening into aircraft maintenance and Air National Guard/Air Force Reserve officers with prior maintenance experience. This course provides training for company grade Air Force officers and Air Reserve Force officers (ANG/AFRC) scheduled to enter the Aircraft Maintenance Officer career field.

3.3.1. Aircraft Maintenance Applications Focus. AMOC (Accelerated/ARF – Company Grade) students must understand aircraft maintenance operations in a wartime environment vs. peacetime environment.

3.3.2. In the event of war, the entire course will be presented.

3.3.3. Formal Training. The AMOC (Accelerated/Air Reserve Component – Company Grade) course is AETC formal training. The AMOC (Accelerated/ARC – Company Grade) course training standard (CTS) lists the formal training requirements.

3.3.4. Graduate Assessment Survey (GAS)/Field Evaluation Questionnaire (FEQ). Unit supervisors will submit responses to GASs and FEQs on officers who complete formal training at Sheppard AFB. Respond to GASs and FEQs when received from the technical training group (82 TRG/TTS). (Reference AFI 36-2201)

**COURSE TRAINING STANDARD
AIRCRAFT MAINTENANCE OFFICER (ACCELERATED/AIR RESERVE
FORCES – COMPANY GRADE) COURSE
(J3OBR21A1 008)**

Behavioral Statements

1. Munitions

- 1.1. Identify selected conventional munitions and components
- 1.2. Identify selected guided systems and components
- 1.3. Identify unsafe situations pertaining to explosive handling operations
- 1.4. Identify conventional munitions accountability procedures

2. Armament

- 2.1. Identify selected aircraft gun systems and components
- 2.2. Identify selected aircraft weapons release components
- 2.3. Describe the aircraft loading process

3. Corrosion Control/Non-Destructive Inspection

- 3.1. Describe the types, prevention, and treatment of corrosion
- 3.2. Identify methods of Non-Destructive Inspection used on aircraft structural materials

4. Air Force Publication Systems

- 4.1. Describe the use and application of technical orders (T.O.)
- 4.2. Describe the methods used to keep TOs current

5. Maintenance Forms

- 5.1. Perform the procedure for the accomplishment of exceptional releases and maintenance downgrades
- 5.2. Perform maintenance upgrade and symbols entered in error

6. Maintenance Organization/Functions

- 6.1. Diagram a basic maintenance organization
- 6.2. Define the functional responsibilities of maintenance staff agencies
- 6.3. Define the functional responsibilities of maintenance shops and sections
- 6.4. Identify the levels of maintenance
- 6.5. Define the functional responsibilities of maintenance managers
- 6.6. Define maintenance responsibilities of the Air Logistic Centers (ALC)
- 6.7. Describe components of the total force

7. Personnel

- 7.1. Describe the maintenance/munitions officer career path
- 7.2. Describe the maintenance officer role in enlisted career development
- 7.3. Identify facts about the civilian personnel system
- 7.4. Identify facts about manpower management
- 7.5. Describe the maintenance training process

8. Resource Management

- 8.1. Identify elements of the resource management system
- 8.2. Describe the process of squadron level budgeting
- 8.3. Describe the cost per flying hour program

9. Programs

- 9.1. Describe the Quality Assurance programs
- 9.2. Describe the modification program
- 9.3. Describe the Time Compliance Technical Order (TCTO) process
- 9.4. Describe the purpose of the Engine Analysis System Program
- 9.5. Describe the purpose of the Propulsion Management Program
- 9.6. Describe the current reliability and maintainability programs
- 9.7. Describe the preventive maintenance process
- 9.8. Describe the foreign object damage (FOD) prevention process
- 9.9. Describe the Integrated Weapon System Management process
- 9.10. Describe depot work specifications
- 9.11. Define depot compression / acceleration
- 9.12. Identify user responsibilities for maintenance of Test, Measurement, and Diagnostic Equipment (TMDE)
- 9.13. Describe the Dropped Object Prevention (DOP) Program

10. Air Force Occupational Safety and Mishap Prevention

- 10.1. Describe Air Force Occupational Safety and Health (AFOSH) & mishap prevention programs
- 10.2. Identify unsafe situations which may be encountered in maintenance

11. Environmental Protection

- 11.1. Identify the application of Environmental Protection Agency (EPA) laws to the maintenance environment
- 11.2. Identify examples of hazardous waste minimization techniques
- 11.3. Identify facts about Hazardous Communications (HAZCOM)

12. Planning

- 12.1. Identify facts about maintenance planning
- 12.2. Develop a monthly, weekly, and daily aircraft utilization plan

13. Status and Measurement

- 13.1. Determine aircraft status
- 13.2. Identify facts about the various maintenance information systems
- 13.3. Describe the purposes and uses of maintenance indicators
- 13.4. Describe the purpose and uses of Status of Resources and Training System (SORTS) reports

14. Logistics

- 14.1. Describe the functions of the Logistics Readiness Squadron
- 14.2. Describe supply procedures pertaining to maintenance
- 14.3. Outline the Due In From Maintenance (DIFM) process
- 14.4. Describe maintenance and supply interfaces
- 14.5. Describe the functions of contracting services

15. Operations

- 15.1. Describe the functions of base-level flying operations
- 15.2. Define emergency action plans and contingency situations

16. Unit Level Maintenance

- 16.1. Describe common practices and procedures relating to aircraft servicing operations
- 16.2. Describe common practices and procedures relating to aircraft maintenance
- 16.3. Describe common practices and procedures relating to aircraft ground handling operations
- 16.4. Describe the procedures for aircraft sortie generation
- 16.5. Describe the daily munitions operations process

17. Contingency Operations

- 17.1. Describe mobility deployment plan
- 17.2. Describe the Aircraft Battle Damage Repair program
- 17.3. Describe the Air and Space Expeditionary Forces (AEF) concept

18. Applied Leadership & Quality Management

- 18.1. Define leadership and management skills as they relate to the maintenance environment

3.4. Aircraft Maintenance Officer (Accelerated/Air Reserve Component – Field Grade) Course.

This course is an AFSC awarding course and required for officers broadening into aircraft maintenance and Air National Guard/Air Force Reserve officers with prior service/maintenance experience. This course provides training for field grade Air Force officers and Air Reserve Component officers (ANG/AFRC) scheduled to enter the Aircraft Maintenance Officer career field.

3.4.1. Aircraft Maintenance Applications Focus. AMOC students must understand aircraft maintenance operations in a wartime environment vs. peacetime environment..

3.4.2. In the event of war, the entire course will be presented.

3.4.3. Formal Training. The AMOC (Accelerated/Air Reserve Component – Field Grade) course is AETC formal training. The AMOC (Accelerated/ARF – Field Grade) course training standard (CTS) lists the formal training requirements.

3.4.4. Graduate Assessment Survey (GAS)/Field Evaluation Questionnaire (FEQ). Unit supervisors will submit responses to GASs and FEQs on officers who complete formal training at Sheppard AFB. Respond to GASs and FEQs when received from the technical training group (82 TRG/TGAV). (Reference AFI 36-2201)

**COURSE TRAINING STANDARD
AIRCRAFT MAINTENANCE OFFICER (ACCELERATED/AIR RESERVE
FORCES – FIELD GRADE) COURSE
(J3OBR21A1 009)**

Behavioral Statements

1. Munitions

- 1.1. Identify selected conventional munitions and components
- 1.2. Identify selected guided systems and components
- 1.3. Identify unsafe situations pertaining to explosive handling operations
- 1.4. Identify conventional munitions accountability procedures

2. Armament

- 2.1. Identify selected aircraft gun systems and components
- 2.2. Identify selected aircraft weapons release components
- 2.3. Describe the aircraft loading process

3. Corrosion Control/Non-Destructive Inspection

- 3.1. Describe the types, prevention, and treatment of corrosion
- 3.2. Identify methods of Non-Destructive Inspection used on aircraft structural materials

4. Air Force Publication Systems

- 4.1. Describe the use and application of technical orders (T.O.)
- 4.2. Describe the methods used to keep TOs current

5. Maintenance Forms

- 5.1. Perform the procedure for the accomplishment of exceptional releases and maintenance downgrades
- 5.2. Perform maintenance upgrade and symbols entered in error

6. Maintenance Organization/Functions

- 6.1. Diagram a basic maintenance organization
- 6.2. Define the functional responsibilities of maintenance staff agencies
- 6.3. Define the functional responsibilities of maintenance shops and sections
- 6.4. Identify the levels of maintenance
- 6.5. Define the functional responsibilities of maintenance managers
- 6.6. Define maintenance responsibilities of the Air Logistic Centers (ALC)
- 6.7. Describe components of the total force

7. Personnel

- 7.1. Describe the maintenance/munitions officer career path
- 7.2. Describe the maintenance officer role in enlisted career development
- 7.3. Identify facts about the civilian personnel system
- 7.4. Identify facts about manpower management
- 7.5. Describe the maintenance training process

8. Resource Management

- 8.1. Identify elements of the resource management system
- 8.2. Describe the process of squadron level budgeting
- 8.3. Describe the cost per flying hour program

9. Programs

- 9.1. Describe the Quality Assurance programs
- 9.2. Describe the modification program
- 9.3. Describe the Time Compliance Technical Order (TCTO) process
- 9.4. Describe the purpose of the Engine Analysis System Program
- 9.5. Describe the purpose of the Propulsion Management Program
- 9.6. Describe the current reliability and maintainability programs
- 9.7. Describe the preventive maintenance process
- 9.8. Describe the foreign object damage (FOD) prevention process
- 9.9. Describe the Integrated Weapon System Management process
- 9.10. Describe depot work specifications
- 9.11. Define depot compression / acceleration
- 9.12. Identify user responsibilities for maintenance of Test, Measurement, and Diagnostic Equipment (TMDE)
- 9.13. Describe the Dropped Object Prevention (DOP) Program

10. Air Force Occupational Safety and Mishap Prevention

- 10.1. Describe Air Force Occupational Safety and Health (AFOSH) & mishap prevention programs
- 10.2. Identify unsafe situations which may be encountered in maintenance

11. Environmental Protection

- 11.1. Identify the application of Environmental Protection Agency (EPA) laws to the maintenance environment
- 11.2. Identify examples of hazardous waste minimization techniques
- 11.3. Identify facts about Hazardous Communications (HAZCOM)

12. Planning

- 12.1. Identify facts about maintenance planning
- 12.2. Develop a monthly, weekly, and daily aircraft utilization plan

13. Status and Measurement

- 13.1. Determine aircraft status
- 13.2. Identify facts about the various maintenance information systems
- 13.3. Describe the purposes and uses of maintenance indicators
- 13.4. Describe the purpose and uses of Status of Resources and Training System (SORTS) reports

14. Logistics

- 14.1. Describe the functions of the Logistics Readiness Squadron
- 14.2. Describe supply procedures pertaining to maintenance
- 14.3. Outline the Due In From Maintenance (DIFM) process
- 14.4. Describe maintenance and supply interfaces
- 14.5. Describe the functions of contracting services

15. Operations

- 15.1. Describe the functions of base-level flying operations
- 15.2. Define emergency action plans and contingency situations

16. Unit Level Maintenance

- 16.1. Describe common practices and procedures relating to aircraft servicing operations
- 16.2. Describe common practices and procedures relating to aircraft maintenance
- 16.3. Describe common practices and procedures relating to aircraft ground handling operations
- 16.4. Describe the procedures for aircraft sortie generation
- 16.5. Describe the daily munitions operations process

17. Contingency Operations

- 17.1. Describe mobility deployment plan
- 17.2. Describe the Aircraft Battle Damage Repair program
- 17.3. Describe the Air and Space Expeditionary Forces (AEF) concept

18. Applied Leadership & Quality Management

- 18.1. Define leadership and management skills as they relate to the maintenance environment.

3.5. Maintenance Officer Intermediate Course (MOIC). This course trains company grade officers in preparing them to assume duties of a MOO and then to command a maintenance squadron. This course will provide training for Air Force Officers in Depot Operations, Performance Indicators, Maintenance Planning, Maintenance and Operations Scheduling, Aircraft Forms, Training, Manpower, Budgets, Maintenance Data Analysis, Air Force Occupational Safety and Mishap Prevention, Quality Assurance, Supply/Acquisition Processes, Deployments, Flight line Processes, Aerospace Expeditionary Forces, Munitions, and Armament Systems.

3.5.1. Aircraft Maintenance Applications Focus. MOIC students must understand aircraft maintenance operations in a wartime environment vs. peacetime environment.

3.5.2. In the event of war, the entire course will be presented.

3.5.3. Formal Training. The Maintenance Officer Intermediate Course is AETC formal training. The MOIC course training standard (CTS) lists the formal training requirements.

3.5.4 Graduate Assessment Survey (GAS)/Field Evaluation Questionnaire (FEQ). Unit supervisors will submit responses to GASs and FEQs on officers who complete formal training at Sheppard AFB. Respond to GASs and FEQs when received from the technical training group (82 TRG/TGAV). (Reference AFI 36-2201)

COURSE TRAINING STANDARD
AIRCRAFT MAINTENANCE OFFICER INTERMEDIATE COURSE CTS
(CTS J3OAR21B3 000)
Behavioral Statements

1 Air Force Materiel Command (AFMC)

- 1.1 Describe resources available at the Air Force Materiel Command (AFMC) Single Manager Blue Book On-Line
- 1.2 Describe the relationship between and location of Single Managers, System Program Offices, System Program Directors and the Department of Energy
- 1.3 Identify depot-level maintenance/munitions directorates and understand the impact of their operations at the wing level
- 1.4 Describe the Contractor Supported Weapons System (CSWS)

2 Operations

- 2.1 Identify Maintenance and Operations considerations in fulfilling a Wing's mission.

3 Forms

- 3.1 Describe the various 781 series forms and critical information necessary to perform maintenance management actions

4 Training

- 4.1 Identify the purpose and uses of a Special Certification Roster (SCR)
- 4.2 Describe requirements for officer and enlisted upgrade training

5 Personnel Readiness

- 5.1 Describe how to read and interpret manpower documents
- 5.2 Describe manpower modeling
- 5.3 Describe the purpose and uses of the Status of Resources and Training System (SORTS) and AEF Reporting Tool (ART)

6 Budget

- 6.1 Describe the wing's role in the planning, programming, and execution of their budget.
- 6.2 Describe the Program Objective Memorandum (POM) process and how to project for the Future Years Defense Program (FYDP)

7 Analysis

- 7.1 Describe the resources Maintenance Management Analysis provides to maintenance
- 7.2 Describe critical maintenance/munitions metrics and data

8 Air Force Occupational Safety & Mishap Prevention

- 8.1 Describe the Environmental Safety Occupational Health Compliance Assessment and Management Program (ESOHCAMP) Inspection
- 8.2 Identify safety investigation and report requirements
- 8.3 Describe mishap prevention programs
- 8.4 Identify facts about the Military Munitions Rule (MMR) and all other legal aspects pertaining to munitions and munitions storage
- 8.5 Describe elements of the weapons safety program
- 8.6 Identify explosive safety fundamentals and explosive site plan characteristics
- 8.7 Describe weapons safety issues in contingency operations

9 Quality Assurance (QA)

- 9.1 Describe how to utilize QA as a management tool

10 Supply/Acquisition Processes

- 10.1 Describe contracting applications and basic overview of rules
- 10.2 Describe the roles of the Regional Supply Squadron (RSS) in a contingency operation
- 10.3 Describe munitions allocation and reporting
- 10.4 Describe the equipment support system
- 10.5 Describe the process for buying/repairing items to support air operations
- 10.6 Describe the support relationship among the services and Defense Logistics Agency (DLA) support to the services

11 Deployments

- 11.1 Describe selected annexes for a Base Support Plan (BSP)
- 11.2 Describe logistics information systems requirements required for deployment
- 11.3 Describe the impact of shortfalls in the Readiness Spares Package (RSP)
- 11.4 Describe the deployment process
- 11.5 Describe contracting requirements and limitations as related to bed down
- 11.6 Describe deployment tasking process
- 11.7 Describe the Tanker/Airlift Logistics Control Element (TALCE) and Lead Mobility Wing (LMW)

11.8 Describe facts about the impact of host-nation support agreements

Describe the concept and resources available to support AEF rotations

11.10 Describe the Centralized Intermediate Repair Facility (CIRF) process

11.11 Identify key elements to expeditionary site surveys affecting maintenance and flying operations

12 Maintenance Processes

12.1 Describe basic generation/re-generation processes

13 Process Improvement

13.1 Describe process improvement initiatives currently used in the field

PART II

Section B - SUPPORT MATERIALS

1. **Support Materials.** The following list of support materials is not all-inclusive; however, it covers the most frequently referenced areas. Reference the Maintenance publications, Series 21, and Safety publication, Series 91, on the Air Force Publications Web page: <http://afpubs.hq.af.mil/>.

1.1. Instructions and Directives.

- AFI 11-218: *Aircraft Operations and Movement On The Ground*
- AFD 21-1: *Air and Space Maintenance*
- AFD 21-2: *Nonnuclear and Nuclear Munitions*
- AFI 21-101: *Aerospace Equipment Maintenance Management*
- AFI 21-102: *Depot Maintenance Management*
- AFI 21-103: *Equipment Inventory, Status and Utilization Reporting*
- AFI 21-104: *Selective Management of Selected Gas Turbine Engines*
- AFI 21-105: *Air and Space Equipment Structural Maintenance*
- AFI 21-108: *Maintenance Management of Space Systems*
- AFI 21-109: *Communications Security (COMSEC) Equipment Maintenance and Maintenance Training*
- AFI 21-110: *Engineering and Technical Services Management and Control*
- AFI 21-115: *Production Quality Deficiency Report Program*
- AFI 21-118: *Improving Air and Space Equipment Reliability And Maintainability*
- AFI 21-201: *Management and Maintenance of Non-Nuclear Munitions*
- AFI 21-303: *Technical Orders*
- AFI 36-2201: *Training Development, Delivery, and Evaluation*
- AFI 36-2406: *Officer and Enlisted Evaluation Systems*
- AFI 36-2501: *Officer Promotions and Selective Continuation*
- AFI 36-2502: *Airman Promotion Program*
- AFPAM 36-2506: *You and Your Promotions - The Air Force Officer Promotion Program*
- AFI 63-101: *Acquisition System*
- AFD 91-1: *Nuclear Weapons And Systems Surety*
- AFD 91-2: *Safety Programs*
- AFD 91-3: *Occupational Safety And Health*
- AFOSHSTD 91-100: *Aircraft Flight Line - Ground Operations And Activities*
- AFI 91-101: *Air Force Nuclear Weapons Surety Program*
- AFMAN 91-201: *Explosive Safety Standards*
- AFI 91-202: *The US Air Force Mishap Prevention Program*
- AFI 91-204: *Safety Investigations and Reports*

1.2. Technical Orders

- 00-20-1: *Aerospace Equipment Maintenance Inspection, Documentation, Policy and Procedures*
- 00-25-172: *Ground Servicing of Aircraft and Static Grounding/Bonding*
- 00-5-1: *AF Technical Order System*
- 00-5-3: *Tech Manual Acquisition Procedures*
- 11A-1-46: *Fire Fighting Guidance, Transportation and Storage Management Data*
- 11A-1-63: *Munitions Assembly Procedures Inspection and Assembly of Nonnuclear Munitions*

1.3. Environmental training references for 21AX officers involved in environmental compliance:

TR: 40 CFR 82, 261, 262; 49 CFR; 29 CFR 1910; AFOSH STD 48-21, 91-31 and 91-66.

PART II
Section C – FOLLOW-ON UNIT TRAINING

1. **Follow-on Unit Training.** Follow-on Unit Training is designed to teach new officers local operating procedures, requirements, common maintenance procedures, and aircraft familiarization.

1.1. Concept. Ideally officers should complete AETC formal training prior to unit training. The intent of unit follow-on training is to provide a local training plan to familiarize officers with unit specific procedures and operations. Unit follow-on training consists of the core tasks identified by the unit from the tasks listed below. Officers will not be upgraded to a fully qualified level until satisfactorily completing both AETC formal training and CFETP core tasks. One successful occurrence does not necessarily constitute understanding of the training objective, but it should provide the individual with a basic understanding of subject areas.

1.2. Training plan. The instructional design for unit level training is determined locally. Appropriate lesson plans, support materials, and instructor guidance are the responsibility of each unit. Unit training may include work center and field visits, task observations, classroom instruction, self-study, and other appropriate instructional methods to accomplish training objectives.

1.3. Training Period. The unit must structure and conduct training to ensure the officer completes all training within 24 months (may be extended to 36 months for ARC) after assignment to a 21A position.

1.4. Familiarization Training and Workcenter Visits.

1.4.1. Familiarization training. Officers must be scheduled to observe familiarization tasks from start to finish. Supervisors will ensure pretask, task, and post-task actions are included. Training may be conducted concurrent with team training operations or during routine maintenance operations. Instructors/supervisors will ensure officers understand the fundamentals of each task, why it is performed, associated hazards, and the overall system impact.

1.4.2. Work center visits. Unit training will include work center visits. Visits consist of tours of all maintenance work centers and key support agencies as determined by commander/supervisor.

1.4.3. Commanders/supervisors will identify local aircraft and weapons specific training tasks.

1.4.4. Document the officer's training in accordance with table below. The table is divided into two components. The first is the listing of behavioral statements that apply to local training. This list is not all-inclusive and may be augmented by the unit via local AF Form 797 or similar method. The second component of the table is an administrative tool for units to track the OJT status of the officer. The depth of training may be anywhere from simple familiarization to in-depth knowledge and task performance. Each maintenance organization determines if the officer in training has met training requirements based on professional judgment and the unique requirements of the particular unit. The format of the table enables supervisors to document completion of the various behaviors trained through OJT.

1.4.4.1 Supervisors will review the CFETP with trainees at an initial interview within 30 days of the trainee's assignment to the unit. During the interview discuss core task requirements (identified by an *), and explain that core tasks must be completed within 24 months after assignment to a 21A1 position. Document the initial interview. Supervisor will print their name and write their initials in the following "Signature Card for Trainee and Supervisor for Aircraft Maintenance Officer Training Task List."

1.4.4.2. Supervisors will identify tasks, in addition to the core tasks, the trainee will be required to complete, and circle the corresponding task numbers in the table.

1.4.4.3. Supervisors will review training progress with trainees quarterly.

1.4.4.4. Documentation. Document and certify completion of training. Complete the following columns in Part II of the CFETP: Trainee initials, Supervisor initials and Date. Note: The AFCFM may supplement these minimum documentation procedures as deemed necessary for their career field.

Signature Card for Trainee and Supervisor for Aircraft Maintenance Officer Training Task List

This Block Is For Identification Purposes Only		
Name of Trainee		
Printed Name (Last, First, Middle Initial)	Initials (Written)	SSAN
Printed Name Of Supervisor and Written Initials		
N/I	N/I	

Aircraft Maintenance Officer Training Task List			
Requirements for the Basic Certification: Complete a basic aircraft maintenance officer course. Record entry in Attachment 1			
Requirements for 21A3 *denotes core tasks (if equipment available)			
COMMANDER'S INITIAL INTERVIEW	Trainee Initials	Commander's Initials	Date
Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
INITIAL COMMANDER'S ORIENTATION			
A1.1. Attend MXG Commander's orientation			
A1.2. Attend MXG stand-up			
A1.3. Attend unit mission briefing			
A1.4. Perform maintenance complex familiarization tour			
A1.5. Review Air Force Repair Enhancement Program (AFREP) processes			
MAINTENANCE MANAGEMENT FUNCTIONS			
A1.6. REVIEW OPERATIONS SECURITY (OPSEC), COMPUTER SECURITY (COMPUSEC), COMMUNICATIONS SECURITY (COMSEC), DIRECTIVES & LOCAL SUPPLEMENTS			
*A1.6.1. Explain Process for controlling Classified/ For Official Use Only (FOUO) material			
A1.7. FOREIGN OBJECT DAMAGE (FOD) PREVENTION/FALLING OBJECT PROGRAM (FOP) TR: AFI 21-101, MAJCOM Supplements			
A1.7.1. Attend a FOD/FOP program meeting			
*A1.7.2. Explain FOD/DOP prevention program requirements			
A1.7.3. Assist in a FOD investigation			
A1.8. AIR FORCE OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: Applicable AFOSH STANDARDS; Aircraft specific TOs, AFI 91-301			
*A1.8.1. Observe (using applicable job guides) aircraft safe for maintenance procedures			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A1.8.2. Explain safety precautions pertaining to aircraft maintenance			
*A1.8.2.1. Explain engine danger areas			
*A1.8.2.2. Explain high intensity noise areas and precautions			
*A1.8.2.3. Explain and demonstrate/identify turbine plane of rotation danger area			
A1.8.2.4. Explain radiation hazard areas			
*A1.8.3. Describe additional hazards related to specific Mission Design Series (MDS)			
A1.9. MAINTENANCE OPERATIONS CENTER (MOC)/ COMMAND POST TR: AFI 21-101 ACCI, AMCI			
A1.9.1. Read the Maintenance Operating Instruction (MOI) for radio net control			
A1.9.2. Demonstrate the use/operation for Command Post phone/radios			
A1.9.3. Explain the use/operation for crash net phones/radios			
A1.9.4. Explain the purpose and functions of MOC			
*A1.9.5. Read/explain all unit emergency action checklists			
A1.9.6. Attend a battle staff/crisis action team meeting			
A1.9.7. Review/explain Command Post positions and operations			
A1.10. MAINTENANCE DIRECTIVES, REFERENCES, AND INSTRUCTIONS TR: AFI 21-101, AAFP 21-3, TOs 00-5-15, 00-20-1			
*A1.10.1. Read/explain AFI 21-101			
*A1.10.2. Read/explain TOs: 00-5-1, 00-5-15, 00-20-1			
*A1.10.3. Read/explain local maintenance operating instructions (OIs)			
*A1.10.4. Read/explain unit Designed Operational Capability (DOC) statements			
*A1.10.5. Explain contents and information found in Unit Manning Document (UMD)			

A1.11. TRAINING TR: AFI 36-2201 V1-V6, AFI 36-2101, AFM 36-2108, AFI 10-204, web site: https://etca.randolph.af.mil/			
Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A1.11.1. Attend an initial work center supervisor evaluation between a supervisor and trainee			
A1.11.2. Review OJT trainer requirements and selection			
*A1.11.3. Review OJT records and explain contents of a typical training record			
A1.12. LOGISTICS PLANS FUNCTION TR: AFI 10-403			
*A1.12.1. Read/explain your unit's role in Wing deployment plans			
A1.12.2. Personally process through a deployment line			
A1.13. PLANS AND SCHEDULING TR: AFI 21-101			
A1.13.1. Review and explain aircraft depot inputs/returns requirements for a typical 180 day period			
A1.13.2. Attend monthly scheduling meeting			
A1.13.3. Attend weekly scheduling meeting			
A1.13.4. Attend squadron scheduling meeting			
*A1.13.5. Explain the steps involved in processing/ revising daily flying plan (AF Form 2407)			
*A1.13.6. Explain availability of aircraft for next day			
*A1.13.7. Observe/explain an aircraft document review			
A1.13.8. Explain requirements for aircraft washes			
A1.13.9. Assist in an aircraft wash as a wash team member			
A1.14. OPERATIONS TR: AFI 21-101			
A1.14.1. Attend a maintenance debriefing session			
A1.14.2. Assist in data input/retrieval of actual debrief			
A1.14.3 Tour operations facilities			
A1.14.4 Attend operations mission brief and debrief			
A1.14.5 Explain unit aircraft operational capabilities and characteristics			
A1.14.6 Explain aircrew training requirements			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A1.15. DOCUMENTATION TR: AFI 21-101, TO 00-20-1			
*A1.15.1. Explain Time Compliance Technical Order (TCTO) annotation actions			
*A1.15.2. Explain Repeat/Recurring and Can Not Duplicate (CND) discrepancy documentation			
A1.15.3. Assist in aircraft inventory pre/post Programmed Depot Maintenance (PDM) input documentation actions			
*A1.15.4. Perform aircraft document review			
*A1.15.5. Observe exceptional release process			
A1.16. MAINTENANCE DATA SYSTEMS ANALYSIS			
A1.16.1. Receive tour and mission briefing			
*A1.16.2. Explain application of Management Information Systems (MIS)			
*A1.16.3. Review and explain fleet health and sortie production indicators			
*A1.16.4. Explain the role and importance of the data integrity program			
A1.17. QUALITY ASSURANCE FUNCTIONS			
A1.17.1. Tour QA office and explain responsibilities for the deficiency reporting program			
*A1.17.1.1. Explain MDS specific Weight and Balance Program, and required documentation			
*A1.17.1.2. Explain MDS specific Functional Check Flight (FCF)/Operational Check Flight (OCF) Program			
A1.17.2. Accompany inspectors/evaluators as they perform the following:			
*A1.17.2.1. Observe/explain Personal Evaluation (PE), Quality Verification Indicator (QVI), Special Inspection (SI) evaluation processes			
A1.17.2.2. Review Wing Product Improvement Program TR: AFI 21-118			
*A1.17.2.3. Explain one-time inspection processes			
*A1.17.2.4. Explain impoundment procedures and observe an impoundment procedure			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A1.18. HAZARDOUS MATERIALS (HAZMAT) TR: AFOSH Std 48-21			
A1.18.1. Tour HAZMAT Pharmacy and understand their responsibilities			
*A1.18.2. Explain responsibilities of Hazardous Material Collection Point Managers and identify discrepancies at collection points			
A1.18.3. Read Environmental Compliance and Management Program (ECAMP) Inspection Reports			
*A1.18.4. Identify hazardous materials spill response procedures			
MAINTENANCE TASKS			
A1.19. GROUND HANDLING AND SERVICING OF AIRCRAFT, AND EXPLOSIVE DEVICES TR: AFI 11-218, TO 00-25-172, APPLICABLE -2 TOs, AFOSH 91-100			
*A1. 19.1. Explain emergency ground egress procedures			
*A1. 19.2. Explain aircraft parking requirements			
*A1. 19.3. Explain hot brake procedures			
*A1. 19.4. Assist in aircraft hangar input/removal procedures			
*A1. 19.5. Explain inclement/cold weather procedures			
A1. 19.6. Assist in aircraft de-icing procedures			
*A1. 19.7. Assist with aircraft power-on and power-off procedures			
*A1. 19.8. Assist in performing aircraft tow operations			
*A1. 19.9. Observe an aircraft jack and level			
*A1. 19.10. Assist in aircraft launch			
*A1. 19.11. Assist in aircraft recovery			
*A1. 19.12. Assist in static grounding of aircraft			
*A1. 19.13. Assist with install/remove ground safety locks/pins			
A1. 19.14. Assist in opening/operating cargo doors			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
*A1. 19.15. Observe servicing landing gear struts Nose Landing Gear (NLG)/Main Landing Gear (MLG)			
*A1. 19.16. Assist with removal/installation of landing gear wheel and tire (NLG/MLG)			
*A1. 19.17 Observe main landing gear brake change			
*A1. 19.18. Determine serviceability of tires			
*A1. 19.19. Perform installation/removal of seat safety pins			
*A1. 19.20. Assist opening/closing engine access doors/ cowlings			
*A1. 19.21. Assist with refuel/defuel of aircraft			
*A1. 19.22. Explain the use of aircraft guarded switches			
*A1. 19.23 Demonstrate operation of aircraft radios			
*A1. 19.24. Demonstrate operation of interphone system			
*A1. 19.25. Assist in removal/replacement of ground covers			
*A1. 19.26. Assist in configure/re-configure aircraft (i.e. pylons, external fuel tanks, electronic pods, seats, comfort pallets, etc.)			
*A1.19.27. Identify location of cartridges, squibs, initiators on an aircraft			
*A1.19.28. Explain safety requirements for cartridges, squibs, initiators			
A1 19.29. Assist in engine removal/installation			
A1 19. 30. Observe an engine run			
A1.20. MAINTENANCE AND INSPECTIONS			
*A1.20.1. Explain scheduled maintenance inspection requirements IAW TO 00-20-1, applicable to assigned aircraft			
*A1.20.3. Assist in intake and exhaust inspections			
*A1.20.4. Assist with preflight inspection			
*A1.20.5. Assist with thru flight inspection			
*A1.20.6. Assist in basic post flight inspection			
A1.20.7. Assist with home station check			
A1.20.8. Explain hard landing inspection requirements			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A1.20.9. Assist in acceptance/transfer inspection			
A1.20.10. Participate in Over "G" inspection			
*A1.20.11. Observe End of Runway inspection			
*A1.20.12. Observe ground checkout of flight control system			
A1.21. MAINTENANCE MATERIALS AND TOOLS TR: TO 1-1A-8, 1-1A-14, -32 Series, AFI 21-101			
*A1.21.1. Explain Consolidated Tool Kit (CTK) Program			
A1.21.2. Explain how to adjust inventory, add/delete requirements for tools/equipment/bench stock			
A1.21.3. Identify Warranty Tool Program requirements			
*A1.21.3.1. Perform lost tool checklist			
*A1.21.4 Observe flight line support section shift change			
A1.22. FLIGHT LINE MANAGEMENT			
A1.22.1. Complete orientation with Flight Commander			
*A1.22.2. Participate in a production meeting			
A1.22.3. Receive overview of authorized/assigned manning			
A1.22.4. Receive TDY requirements/commitments overview			
*A1.22.4.1 Participate in TDY /deployment planning			
A1.22.5. Complete tour of unit facilities			
A1.22.6. Explain launch /recovery team concept			
A1.22.7. Explain production supervisor responsibilities			
*A1.22.7.1. Participate in ride-along with production supervisor for one week on various shifts.			
*A1.22.8. Explain expediter responsibilities			
A1.22.8.1. Participate in ride-along with expediter for one week on various shifts.			
*A1.22.9. Explain Dedicated Crew Chief/Crew Chief Training Program/Flying Crew Chief Programs			
*A1.22.10. Explain special certification roster requirements and procedures			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
*A1.22.11. Explain red X/in-process inspection qualification requirements			
*A1.22.12. Explain how to interpret Minimum Essential Systems List (MESL) to determine aircraft status			
A1.23. FLIGHT LINE PRODUCTION			
A1.23.1. View support equipment ready line			
*A1.23.2. Explain cannibalization procedures			
A1.23.3. Review deviation sheets			
A1.24. WEAPONS PRODUCTION			
A1.24.1. Complete Weapons Flight Chief orientation			
A1.24.2. Explain local munitions storage limitations			
A1.24.3. Explain weapons safe for maintenance actions			
A1.24.4. Explain hung ordnance/hot gun process			
A1.24.5. Observe local MDS specific weapons/munitions upload, testing, and download			
A1.25. MAINTENANCE SQUADRON (S)			
A1.25.1. Attend Unit Mission Brief			
A1.25.2. Attend maintenance supervisors overview			
A1.26. FABRICATION BRANCH			
A1.26.1. Receive branch tour			
A1.27. STRUCTURAL REPAIR SHOP			
A1.27.1. Receive tour			
A1.27.2. Observe composite materials repair			
A1.27.3. Observe honeycomb repairs			
A1.27.4. Observe sheet metal repair process			
A1.27.5. Review MSDSs/HAZMAT Procedures			
A1.27.6. Observe application/repair of radar absorbing material (RAM)/low observable (LO) components			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A1.28. CORROSION CONTROL SHOP			
A1.28.1. Observe paint operation			
A1.28.2. Explain Volatile Organic Compound (VOC)			
*A1.28.3. Tour hazardous waste satellite accumulation point			
A1.28.4. Explain labeling of HAZ waste containers			
A1.28.5. Identify high corrosion areas particular to airframe type			
A1.28.6. Explain list of hazardous materials items/authorized quantities in lockers			
A1.29. WELDING SHOP			
A1.29.1. Receive tour			
A1.29.2. Explain Welding Certification Program TR: AFI 21-105			
A1.29.3. Explain required eye/personnel protection TR: AFOSH 91-31			
A1.29.4. Explain flight line dispatch procedures			
A1.29.5. Observe welding operations			
A1.30. MACHINE SHOP			
A1.30.1. Receive tour			
A1.30.2. Observe machinery operations			
A1.30.3. Observe in-shop flow of repairables			
A1.30.4. Observe documentation of work accomplished			
A1.31. NON-DESTRUCTIVE INSPECTION SHOP			
A1.31.1. Receive tour			
*A1.31.2. Explain/observe basic inspection methods used			
A1.31.3. Observe an in-shop Nondestructive Inspection (NDI)			
*A1.31.4. Explain/observe oil lab operation TR: AFOSH Std. 91-110			
A1.31.5. Review documentation of yearly physicals			
A1.31.6. Review documentation of film badge control			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A1.32. ACCESSORIES FLIGHT			
A1.32.1. Receive tour			
A1.33. ELECTRICAL ENVIRONMENTAL SHOP			
A1.33.1. Receive tour			
A1.33.2. Explain the functions of the battery shop			
A1.34. HYDRAULIC /PNEUDRAULIC SHOP			
A1.34.1. Receive tour			
A1.34.2. Observe shop repairables flow/documentation			
A1.35. FUEL SYSTEMS SHOP			
A1.35.1. Receive tour			
A1.35.2. Explain flight line dispatch procedures			
A1.35.3. Observe fuel cell work in-progress			
*A1.35.4. Explain fuel tank entry program			
* Explain confined space program			
A1.35.5. Observe tank pressurization testing/certification			
A1.35.6. Observe/tour external tank storage facility			
*A1.35.7. Explain different fuel leaks classification			
A1.35.8. Explain operation of fuel cell fire suppression system			
A1.36. PROPULSION (ENGINE) SHOP			
A1.36.1. Receive tour			
A1.36.2. Explain flight line dispatch procedures			
A1.36.3. Observe engine disassembly/assembly			
*A1.36.4. Review and explain daily operational up-dates to Comprehensive Engine Management System (CEMS)/GO81			
A1.36.5. Review error reports returned from Tinker AFB CEMS Central Data Base (CDB)			
A1.36.6. Assist with quarterly engine account reconciliation			
A1.36.7. Observe propeller mate/de-mate (as applicable)			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A1.36.8. Explain requirements for AFTO Form 95 "Significant Historical Data" inputs, manual/electronic			
A1.37. AEROSPACE GROUND EQUIPMENT (AGE) TR: AFOSH STD 91-66			
A1.37.1. Tour AGE Shop			
A1.37.2. Maintenance Stands TR: AFOSH Std 91-501, TO 35A4 Series			
A1.37.2.1. Identify purpose and nomenclature			
A1.37.2.2. Perform equipment pre-use inspection			
A1.37.3. Oxygen/Nitrogen Servicing Equipment TR: TOs 15X-1-1, 37C2-8			
A1.37.3.1 Explain safety considerations for gaseous oxygen (GOX), liquid oxygen (LOX), and Nitrogen cart storage areas			
A1.37.4. Operate ground heaters and blowers			
A1.37.5. Generator Sets TR: TO 35C2 Series			
A1.37.5.1. Perform pre-use inspection and operate			
A1.37.6. Lighting Equipment TR: TO 35F5 Series			
A1.37.6.1. Perform pre-use inspection and operate			
A1.37.7. Hydraulic Test Stands TR: TO 33A2 Series			
A1.37.7.1. Observe operation			
A1.37.8. Air Conditioning Units TR: TO 35E9 Series			
A1.37.8.1. Perform pre-use inspection and operate			
A1.37.9. Gas Turbine Compressors TR: TO 35D12 Series (-60, -95)			
A1.37.9.1. Perform pre-use inspection and operate			
A1.37.10. AGE Tow Vehicles TR: TO 36A10 Series			
*A1.37.10.1. Identify purpose and description, observe pre-use inspection and unit operation			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
*A1.37.10.2. Perform pre-use inspection and observe use of tow bars			
A1.38. RESPONSIBILITY FOR SUPPLY TR: AFM 23-110 v2 Pt 13, AFI 21-101			
A1.38.1 Tour the supply activity			
A1.38.2. Explain maintenance supply concept			
*A1.38.3. Perform Mission Capable (MICAP) verification procedures			
*A1.38.4. Identify procedures for maintaining equipment accounts (check with supply counterparts)			
*A1.38.5. Explain local parts manufacturing policies and procedures			
*A1.38.6. Identify bench stock monitoring processes			
A1.38.7. Prepare supply difficulty letters			
*A1.38.8. Explain local purchase process			
*A1.38.9. Explain the operation of the tail number/FOM bin			
A1.38.10. Management of Cannibalization (CANN)			
*A1.38.10.1. Explain procedures for documenting the CANN log			
A1.38.11. Repair Cycle Support Activity			
*A1.38.11.1. Tour Repair Cycle Support Activity			
A1.38.11.2. Review and interpret daily document (D04) register			
A1.38.11.3. Review and interpret Priority Monitor Report (D-18)			
*A1.38.11.4. Review and interpret Due-In-From-Maintenance (DIFM) listing (R26)			
A1.38.11.5. Review and interpret TCTO and TCI due-outs listing			
*A1.38.11.6. Review and interpret awaiting parts listing (D-19)			
A1.38.11.7. Follow/track item through base repair cycle			
A1.38.11.8. Explain the base repair cycle process			
*A1.38.11.9. Explain MRSP fill and deployment procedures			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A1.38.12. Fuels Management Overview			
*A1.38.12.1. Tour fuels control center to include fuels testing			
A1.39. Transportation			
A1.39.1. Tour vehicle maintenance and dispatch facility			
A1.40. MAINTENANCE FLIGHT			
A1.40.1. Receive tour			
A1.41. AIRCRAFT INSPECTION SECTION			
A1.41.1. Receive tour			
A1.41.2. Participate in the applicable isochronal (ISO)/phase/periodic inspections			
A1.42. REPAIR AND RECLAMATION SECTION			
A1.42.1. Receive tour			
A1.42.2. Observe flight control rigging on primary assigned aircraft			
A1.42.3. Observe CDDAR responsibilities if assigned			
A1.42.3.1. Crash Recovery Equipment			
A1.42.3.2. Identify purpose and description			
A1.42.3.3. Assist in crash trailer periodic/calendar inspection			
A1.42.4. Observe refurbishment section responsibilities if established			
A1.43. WHEEL AND TIRE SECTION			
A1.43.1. Receive Tour			
A1.43.2. Observe the build-up and repair of wheel and tire components			
A1.44. TRANSIENT AIRCRAFT MAINTENANCE SECTION			
A1.44.1. Receive tour			
A1.45. Competency Test			
*A1.45.1. Test on AFI 21-101, Maintenance Management of Aircraft			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A1.46. Successfully complete any of the following core 21A/M unit level jobs such as:			
A1.46.1. Flight Commander, Sortie Generation Flight			
A1.46.2. Flight Commander, Sortie Support Flight			
A1.46.3. Flight Commander, Avionics Flight			
A1.46.4. Flight Commander, Propulsion Flight			
A1.46.5. Flight Commander, Accessory Flight			
A1.46.6. Flight Commander, AGE Flight			
A1.46.7. Flight Commander, Fabrication Flight			
A1.46.8. Flight Commander, Air Mobility Operations Group			
A1.46.9. Flight Commander, Quality Assurance Flight			
A1.46.10. Flight Commander Maintenance Flight			
A1.46.11 Flight Commander, Munitions Flight			
A1.46.12. MASO			
A1.46.13. AMU OIC			

Requirements for the Senior Certification			
When certification requirements are completed record in Atch 1			
Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A2.1. Complete 2 of the following courses: (minimum 1 for ARC)			
A2.1.1. AFIT LOG 032, Reliability Centered Maint Analysis			
A2.1.2. AFIT LOG 131, Industrial Maint Management			
A2.1.3. AFIT LOG 199, Introduction to Logistics			
A2.1.4. AFIT LOG 262, Applied Maint Management Concepts			
A2.1.5. AFIT LOG 299, Combat Logistics			
A2.1.6. AFIT Logistics Management Graduate Program (Equals 2 courses)			
A2.1.7. DAU ACQ 101, Fundamentals of Systems Acquisition Management			
A2.1.8. DAU LOG 101, Acquisition Logistics Fundamentals			
A2.1.9. Aircraft Mishap Investigation Course (AMIC)			
A2.1.10. Jet Engine Mishap Investigation Course (JMIC)			
A2.1.11. Contingency Wartime Planners Course			
AFIT LOG 132 Production Maintenance Management (PMS Internship)			
AFIT REQ 111 Capabilities Based Operational Requirements Course			
AFIT SYS 170 Maintenance Planning			
AFIT SYS 172 Modification Management Process			
AFIT SYS 173 Product Support Management Planning			
AFIT SYS 350 Reducing Acquisition Response Time			
AFIT SYS 352 Incentives for Reducing Acquisition Response Time			
AMQ 100-000 Quality Assurance Evaluator (QAE) Training			
ASAM Advanced Studies in Air Mobility			
AU OSCC On-Scene Commanders' Course			
DAU ACQ 201A Intermediate Systems Acquisition, Part A			
21M Bridge Course			
DAU ACQ 201B Intermediate Systems Acquisition, Part B			
AFCOMAC			
DAU LOG 102 Systems Sustainment Management Fundamentals			
DAU Intro to LEAN Enterprise Concepts			
DAU LEAN 6 Sigma			
DAU LOG 201B Intermediate Acquisition Logistics, Part B			

Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
DAU LOG 203 Reliability and Maintainability			
DAU LOG 204 Configuration Management			
DAU PMT 250 Program Management Tools			
DAU PQM 101 Production, Quality and Manufacturing Fundamentals			
DAU PQM 201A Intermediate Production, Quality and Manufacturing, Part A			
DAU PQM 201B Intermediate Production, Quality and Manufacturing, Part B			
DAU TST 101 Intro to Acquisition Workforce Test and Evaluation			
DNWS NWOC Nuclear Weapons Orientation Course			
DNWS TNOG Theater Nuclear Operations Course			
DNWS RAC-3 Radiological Accident Response Command & Control Course			
DNWS RETOR Radiological Emergency Team Operations Course			
ISFC Inter-Service Space Fundamentals			
ISIOC			
NATO School I-11: Nuclear Safety and Security			
DTRA: Nuclear Weapons Orientation Course			
USAFE University, Nuclear College: Nuclear Manager's Course			
USAFE University, Nuclear College: USAFE Munitions Accountable Systems			
Officer / Nuclear Ordnance Control Material Course			
A2.2. Complete the MOIC or AMMOS			
A2.3 Has held any of the following duty positions			
A2.3.1. Maintenance Supervisor			
A2.3.2. OIC, Aircraft Maintenance Unit			
A2.3.3. MAJCOM/NAF Staff			
A2.3.4. Depot Maintenance			
A2.3.5. Commander, Maintenance Flight			
A2.3.6 Maintenance Operations Officer			
A2.3.7 AMMOC/ Instructor Duty			
A2.4. Successfully complete 7 years in the specialty (AFI 36-2923)			

Requirements for the Master Certification			
When certification requirements are completed record in Attachment 1			
Unit Follow-on Training Task List	Trainee Initials	Supervisor Initials	Date
A3.1. Complete 1 of the following:			
A3.1.1 DAU LOG 235B Performance Based Logistics Part B			
A3.1.2 DAU LOG 235A Performance Based Logistics Part A			
A3.1.3. AFIT LOG 399, Strategic Logistic Management			
A3.1.4. AFIT LOG 499, Logistic Exec Development Seminar			
A3.1.5. DAU LOG 201, Intermediate Acquisition Management			
A3.1.6. DAU LOG 203, Reliability and Maintainability			
A3.1.7. DAU LOG 204, Configuration Management			
A3.1.8. DAU LOG 205, Provisioning			
A3.1.9 DAU Intro to LEAN Enterprise Concepts			
A3.1.10 DAU LEAN 6 Sigma			
A3.1.11. DAU LOG 304 Executive Life Cycle Logistics Management			
A3.2. Has held any 2 of the following duty positions (One for ARC)			
A3.2.1. AMMOC/AMMOS Instructor			
A3.2.2. Command			
A3.2.3. MAJCOM or Air Staff			
A3.2.4. Depot Level Maintenance			
A3.2.5. Acquisition Duty			
A3.2.6. Joint Logistics Duty			
A3.2.7. Deputy Maintenance/Logistics Group Commander			
A3.2.8. Other Logistics AFSC (21R, 21M)			
A3.3. Successful completion of 15 years in the specialty (AFI 36-2923)			

PART II
Section D - TRAINING COURSE INDEX

1. **Purpose.** This section of CFETP identifies training courses available in the Aircraft Maintenance Officer Specialty and shows how the courses are used by each MAJCOM in their career field training programs. Career field functional managers and training management personnel should use this information to plan, develop, and update their respective MAJCOM continuation training program. The Education and Training Course Announcements (ETCA) contain more detailed course information. The ETCA Internet address is as follows: <https://etca.randolph.af.mil/>.

2. **Air Force In-Residence Courses.**

2.1. **Entry-Level AFSC Awarding Courses.**

2.1.1. Completion of the following course is mandatory for the award of the entry-level AFSC to include active Air Force new accessions.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
J3OBR21A1-006 Aircraft Maintenance Officer Course (AMOC)	Aircraft Maintenance	Sheppard AFB	AF

2.1.1.1. **Aircraft Maintenance Officer Course.** Provides training for Air Force officers (new accessions), Air Reserve Force (AFRC/ANG) officers, and International officers entering the Aircraft Maintenance Officer career field without regard to background, prior skills, or training other than specified in this catalog. The scope of training includes technical familiarization related to aircraft including support equipment, airframe principles, aircraft accessories, avionics systems, and propulsion systems; munitions; armament; Air Force publication systems; maintenance forms; maintenance organizations/functions; personnel; resource management; Air Force maintenance programs; Air Force occupational safety and mishap prevention; environmental protection; nuclear weapons familiarization; planning; status and measurement; logistics; operations; unit level maintenance; contingency operations; and applied leadership. Fulfills a requirement for AFSC 21A1 upgrade.

2.1.2. Completion of the following course is mandatory for company grade rated officers broadening into aircraft maintenance and for Air National Guard/Air Force Reserve officers with prior service/maintenance experience (5-skill level or above) and who are scheduled to enter the Aircraft Maintenance Officer career field.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
J3OBR21A1-008 Aircraft Maintenance Officer (Accelerated/Air Reserve Component – Company Grade)	Aircraft Maintenance	Sheppard AFB	AF

2.1.2.1. **Aircraft Maintenance Officer (Accelerated/Air Reserve Component – Company Grade) Course.** Provides training that includes munitions; armament; corrosion control and non-destructive inspection; Air Force publication systems; maintenance forms; maintenance organizations and functions; personnel; budgeting; Air Force maintenance programs; Air Force occupational safety and mishap prevention; environmental protection; nuclear weapons familiarization; planning; status and measurement; logistics; operations; unit level maintenance; contingency operations; and applied leadership. Fulfills the requirement for AFSC 21A1 upgrade.

2.1.3. Completion of the following course is mandatory for field grade Air Force officers (military-rated) broadening into aircraft maintenance and field grade Air Reserve Force officers (ANG/AFRC) with prior service/maintenance experience and who are scheduled to enter the Aircraft Maintenance Officer career field

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
J3OBR21A1-009 Aircraft Maintenance Officer (Accelerated/Air Reserve Component – Field Grade)	Aircraft Maintenance	Sheppard AFB	AF

2.1.3.1. **Aircraft Maintenance Officer (Accelerated/Air Reserve Component – Field Grade) Course:** Provides training that includes munitions; armament; corrosion control and non-destructive inspection; Air Force publication systems; maintenance forms; maintenance organizations and functions; personnel; budgeting; Air Force maintenance programs; Air Force occupational safety and mishap prevention; environmental protection; nuclear weapons familiarization; planning; status and measurement; logistics; operations; unit level maintenance; contingency operations; and applied leadership. Fulfills the requirement for AFSC 21A1 upgrade.

2.1.4. Completion of the following course is mandatory for crossflowing officers who are assigned to aircraft maintenance units.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
J3OLR21A1-008 Aircraft Maintenance Officer Bridge Course	Aircraft Maintenance	Sheppard AFB	AF

2.1.4.1. **Aircraft Maintenance Officer Bridge Course.** Provides training for company grade Air Force officers and Air Reserve Force officers (ANG/AFRES) cross-flowing from supply, transportation, logistics plans, or missile maintenance career fields into the Aircraft Maintenance Officer career field. Training includes munitions, corrosion control, Air Force publication systems and maintenance forms, maintenance organizations and functions, personnel, budgeting, Air Force maintenance programs, Air Force occupational safety and mishap prevention, environmental protection, nuclear weapons familiarization, planning, status and measurement, logistics, operations, unit level maintenance, contingency operations, and applied leadership. Fulfills a requirement for AFSC 21A1 upgrade.

2.2. Non-AFSC Awarding Course.

2.2.1. Completion of the following course is mandatory for company grade officers in preparing them to assume command of a maintenance squadron.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
J3OAR21B3 000 Maintenance Officer Intermediate Course (MOIC)	Aircraft Maintenance	Sheppard AFB	AF

2.2.1.2. **Maintenance Officer Intermediate Course.** Provides training for Air Force Officers in depot operations, performance indicators, maintenance planning, maintenance and operations scheduling, aircraft forms, training, manpower, budgets, maintenance data analysis, Air Force occupational safety and mishap prevention, quality assurance, supply/acquisition processes, deployments, flight line processes, aerospace expeditionary forces, munitions, and armament systems. Fulfills a requirement for senior certification.

2.3. Entry-Level non-AFSC Awarding Course.

2.3.1. Completion of the following course is mandatory for officers assigned to an aircraft maintenance unit with a nuclear tasking.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
J3OLR21M1C 001 Nuclear Maintenance Officer Course (NMOC)	Nuclear Weapons	Sheppard AFB	AF

2.3.1.1. **Nuclear Maintenance Officer Course.** Provides an introduction to such topics as nuclear weapons management/control and history, nuclear ordnance commodity management, task qualification and certification procedures, nuclear surety, unit organization, life cycle management, nuclear weapons technical orders, nuclear theory and effects, types of weapons and components, support equipment, permissive action link/active protection system/command disablement system, nuclear weapons maintenance procedures, weapons mating procedures, maintenance documentation, safety, security, and transportation of weapons, environmental concerns and nuclear surety inspections. **Course Prerequisites:** A secret security clearance (prior to attendance) is required

2.4. Aircraft Maintenance Supplementary Courses.

2.4.1. **Aircraft Mishap Investigation Course:.** For 21A officers in the grade of captain, who may be a potential voting member in a formal class A flight mishap investigation board.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
WCIP05A Aircraft Mishap Investigation Course (AMIC)	Aircraft Mishap Investigation	Kirtland AFB	AF

2.4.1.1. **Aircraft Mishap Investigation Course.** Provides training to officers and civilians in aircraft mishap investigation techniques and procedures; analyses of human and material factors involving aircraft systems and power plants. Curriculum is similar to investigative portion of Flight Safety Officer (FSO) course. **Course Length:** 10 days. **Administrative Instructions:** MAJCOM Safety Office will consolidate attendee information and send list to AFSA/SEME 45 days before class start date. Include name, grade, SSN, AFSC or job series, complete address of unit assigned, and DSN. If individual is scheduled to PCS/PCA, include projected unit of assignment and reporting date. **Class Hours:** Class starts at 0800; the last class day ends at 1100. No early release authorized. **Location:** Kirtland AFB NM, HQ AFSC Bldg 24499, 1st floor. **Prerequisites:** Officer or civilian (GS-9 or above) who is a potential voting member in a formal Class A flight mishap investigation board IAW AFI 91-204, Investigating and Reporting Mishaps), and technical experts from Air Force Materiel Command. Graduates of the Flight Safety Course are not eligible to attend. **Course Manager:** AFSC/SEME, Eugenia Fowler, DSN 246-4093, FAX DSN 246-0931. E-mail address: fowlere@kafb.saia.af.mil

2.4.2. **Mishap Investigation Non-Aviation Course.** Provides training to the novice investigator and emphasizes investigative techniques, technical items relative to ground, space, missile and explosives mishaps, and the impact of human behavior and culture related to mishaps. The focus of instruction is on the investigation process and determining root cause rather than actual report preparation. **Course Length:** 7.5 days. **Prerequisites:** Assigned as a full-time ground safety personnel (GS-9 civilians with less than 5 years AF safety experience, and enlisted 5-level); and space, missile and explosives personnel who have a job requirement to do mishap investigation on a routine basis. **Selection Process:** MAJCOM/DRU/FOA Safety Staff controls student selection with AFSC/SEME approval. Individuals must obtain quotas from their Command Headquarters. **Location:** Kirtland AFB NM, HQ AFSC Bldg 24499, 1st floor. **Course Manager:** AFSC/SEME, Sherrie Balcom, DSN 246-0806, FAX DSN 246-0931. E-mail address: balcoms@kafb.saia.af.mil

21M Air Force In-Residence Courses

COURSE NUMBER	TITLE	LOCATION	AFSC AWARDING
TBD	Maintenance Officer Fundamental Course	Sheppard AFB	
V3OBR21M1-000	Missile Maintenance Officer Course	Vandenberg	YES
J3OBR21M1 000	Munitions Maintenance Officer Course	Sheppard AFB	YES
L3AZR2W071 001	Weapons Safety	Lackland AFB	

3. **Field Training Detachment Courses.** There are Training Detachment (TD) courses available at many locations - check your local TD for applicability and availability.

4. **Exportable Courses.** See the following websites <https://hq2af.keesler.af.mil/DstLearn/dl.htm> or <https://367catalog.hill.af.mil/toc.asp> for complete listing of distance learning courses.

- 4.1. J6ANU00066 038, Air Force T.O. System (General)
- 4.2. J6ANU00066 039, Air Force T.O. System (Advanced)
- 4.3. J6ANU2A3X3B 009, F-16 Aircraft Familiarization
- 4.4. J6ANU2A000 000, Weight and Balance (General)
- 4.5. J6AZU00066 058, 9DU, AF Maintenance Data Collection System (CAMS)
- 4.6. J6AZU00066 059, MU1, AF Maintenance Data Collection System (CAMS)(781 Forms)
- 4.7. J6AZU00066 061, PCP, Core Automated Maintenance System (CAMS) Intro
- 4.8. 6AZU00066 062, QRA, Core Automated Maintenance System (Mid Level Maintenance Manager)
- 4.9. J6AZU00066 063, QRQ, Core Automated Maintenance System (Senior Level Maintenance Manager)
- 4.10. C6AGM00CCB7510, Explosive Safety

5. **Air Force Institute of Technology. (AFIT):** AFIT is the Air Force's premier institution of professional and graduate education in acquisition, logistics, engineering, and management.

5.1. The AFIT Logistics Management Graduate Program provides a broad and diverse curriculum equipping students with the skills required to perform most effectively as middle and upper managers in any of a variety of USAF and DoD logistics positions. Satisfactory completion of the graduate curriculum leads to award of a Master of Science degree in logistics management. Course duration is 15 months. A bachelor's degree in business administration, transportation, economics, the physical sciences,

industrial engineering, or a degree from a service academy is required. As a minimum, the officer must have completed college algebra with a grade of C or higher. Intermediate algebra does not satisfy this requirement. Applicants must satisfactorily complete either the aptitude test for the Graduate Record Examination (GRE) or Graduate Management Aptitude Test (GMAT) before a letter of eligibility will be issued.

5.2. AFIT's School of Systems and Logistics (AFIT/LS) is the Air Force's sole provider of professional continuing education (PCE) courses in the areas of Logistics, Acquisition, and Software Engineering. AFIT/LS offers courses, executive seminars, and tailored workshops that transcend specialty boundaries. Optional courses available for the 21AX qualification/certification provide the professional tools needed for effective combat support and attendance is highly encouraged. Contact your local education and training office for the latest information on scheduled course offerings. Contact AFIT/LS to set-up out-of-cycle requirements DSN: 785-7777 extension 3107 or <http://ls.afit.edu>. Course descriptions are listed below.

5.3. **Industrial Maintenance Management Course:** The course provides training that improves the management abilities of entry and mid-level managers and supervisors assigned to the DoD Depot Maintenance System.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
WLOG 131 Industrial Maintenance Management	Industrial Maintenance	Wright-Patterson AFB	AF

5.3.1. **Industrial Maintenance Management Course Focus.** Designed to improve the management abilities of entry and mid-level managers and supervisors assigned to the Department of Defense Depot Maintenance System. Industrial maintenance management principles and analytical techniques are examined to determine how they can best be applied to enhance support of operational combat forces. The course emphasizes the use of computer-based information and reports, forecasting, and human factors present in problem analysis and decision making. Activities required to determine and manage industrial work load cost are evaluated and their interrelationships are studied. **Prerequisites:** Open to non-US personnel. A security clearance is not required. **Course Length:** 10 class days. **Added Note:** Nominees should currently be assigned as entry and mid-level managers or supervisors at depot, industrial, or rework maintenance activity. The course is open to O-3, O-4, and E-7 through E-9, civilian personnel GS-9 through GS-12, and wage grade equivalent grades. **Location:** Wright-Patterson AFB, 2950 P St, Wright Patterson AFB OH, 45433-7765.

5.4. **Applied Maintenance Management Concepts Course:** Provides maintenance managers and supervisors with an array of executive skills that can be applied to the management functions that support operational units.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
WLOG 262 Industrial Maintenance Management	Maintenance Management	Wright-Patterson AFB	AF

5.4.1. **Applied Maintenance Management Concepts Course Focus:** The course exposes practitioners to the latest policies and initiatives, and challenges them to apply both theory and techniques to current management problem scenarios which confront base-level maintenance managers. Application of current concepts in management science is emphasized through seminars, informal lectures, guided discussions, case studies, exercises, and group projects. Current topics examine production excellence, group decision-making dynamics, the theory of constraints, capacity requirements planning, general scheduling

theory, the logistics environment, and repair cycle processes. The application of statistical concepts, statistical process control, and reliability and maintainability measures are illustrated through practical exercises. **Prerequisites:** Open to non-US personnel. A security clearance is not required. Nominees currently assigned to, pending assignment to, or working in direct support of organizational and intermediate level aircraft maintenance positions have priority. Officers O-1 through O-4, enlisted members E-6 through E-9, and civilian members in grades GS-9 through GS-13, and wage grade equivalents are eligible. At least one year of experience at the organizational or intermediate level of maintenance is required for military attendees. Students are provided scientific calculators to support various course requirements. A basic familiarity of statistical concepts is desirable. While not required, it is recommended that TDY students bring a laptop computer with word processing, spreadsheet, and presentation software installed.

5.5. Introduction to Logistics (LOG 199) Course. Prepares Air Force personnel for leadership and advancement in logistics career fields. Provides an overview of Air Force logistics and its environment including organizations, planning, integration of logistics systems, functions, principles, processes and issues. Additionally, it provides an introduction to contemporary issues, such as competitive sourcing, supply chain management, and business process improvement. Presented as a series of lectures, discussions, small group activities, and simulations.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
WLOG 199 Introduction to Logistics	Logistics	Wright-Patterson	AF

5.5.1. Introduction to Logistics (LOG 199) Course Focus: Prepares Air Force personnel for entry into logistics career fields and provides a conceptual overview of Air Force logistics and its environment. Course topics cover organizations, planning, and integration of logistics systems, functions, principles, processes, and issues that will provide a core of knowledge to which subsequent formal education and training programs can be keyed for officer, airmen, and civilian progression. **Prerequisites:** Open to non-US personnel. For newly assigned logisticians and persons pending immediate assignment to the logistics field - 2d Lt through Captain, Staff Sergeant through Master Sergeant, GS-5 through GS-12. A security clearance is not required. **Course Length:** 10 days. **Added Note:** This course is offered in residence, and on-site. Students apply using DD Form 1556 through their base education office to AFIT.

5.6. Combat Logistics (LOG 299). Addresses the roles and responsibilities of logisticians in support of combat, peace, and humanitarian operations. The focus is on logistics at the operational and tactical levels of war. Course addresses how Air Force logisticians, together with other combat support forces create and sustain capability in a joint theater of operations. Designed for personnel assigned to maintenance, supply, transportation, contingency contracting, and logistics plans positions at base-level through joint and unified commands. Also suited for personnel in other positions (i.e. civil engineering, services, security, intelligence, and operations planning) who must have knowledge of or interact with combat support/sustainment operations. Log 299 combines combat logistics history with current issues and dynamics. Methods of instruction include informal lectures, guided discussions, a planning exercise, and a literary analysis.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
WLOG 299 Combat Logistics	Logistics	Wright-Patterson	AF

5.6.1. Combat Logistics Course Focus: The course is structured to provide an orientation of wartime roles and responsibilities of Air Force logisticians, and provides an overview of these roles and

responsibilities integrated into the larger context of DOD and USAF wartime preparation. It discusses and analyzes how the principles of logistics in combat, peace, and humanitarian operations are applied, ultimately providing an anchor for subsequent on-the-job training and professional education for the Air Force logistician. **Prerequisites:** Open to non-US personnel. A security clearance is not required. Designed for personnel in a logistics career field assigned to an operation logistics position at base through joint and unified commands. The course is open to officers in ranks 0-2 and 0-3, non-commissioned officers in the grades of E-5 through E-8, and civilian personnel in the grades of GS-09 through GS-12.

Course Length: 10 days

5.7. Strategic Logistics Management (LOG 399). Course is designed to increase student understanding of the total logistics system beginning from the national security strategy. Students link US national security objectives to the services logistics policies, plans, and resources.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
WLOG 399 Strategic Logistics Management	Strategic Logistics	Wright-Patterson	AF

5.7.1. Strategic Logistics Management Course Focus: The course focuses on logistics at the strategic level and emphasizes the interdependency of strategy, tactics, and logistics, and the importance of treating all logistics functions and processes as an integrated system for providing combat capability, broadens student understanding of Air Force and joint logistics doctrine, policies, processes, programs, planning, current and future issues. The course provides a forum for the free exchange of ideas and concepts between students, faculty, and guest speakers to foster critical thinking and creative problem solving. Students examine how the evolving logistics environment, changes in the total force concept, and future concepts of service roles and missions impact logistics. The course relies heavily on presentations from guest speakers (primarily from HQ USAF, JCS, joint commands, and DoD), industrial tours. **Prerequisites:** Open to US personnel only. The course is designed for personnel in all logistics career field specialties and is open to officers O-4 and O-5, enlisted E-8 and E-9 at MAJCOM level or above, and civilian personnel in the grades GS-14 and GS-13. **Course Length:** 10 days

5.8. Logistics Executive Management (LOG 499). The Logistics Executive Development course provides logistics executives an increased understanding of the interrelationship of the logistics disciplines, management systems, and values affecting organizational policy within the broader context of national policies and objectives.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
WLOG 499 Logistics Executive Management (LOG 499).		Wright-Patterson	AF

5.8.1. Logistics Executive Management Course Focus: The seminar provides senior logistics managers the opportunity to examine policies and issues currently affecting logistics. Various topics are presented by flag rank officers, SESs, and private sector senior level managers. The seminar offers the students an opportunity to interact with these policy-makers by exchanging ideas, discussing current issues, and assessing common problems. **PREREQUISITES:** Open to US only. Open to colonel/colonel (sel)/GM-GS-15 in all logistics career field specialties. Senior lieutenant colonels and GS-14s will be considered on a space available basis. **LENGTH:** 5 days

5.9. **Reliability Centered Maintenance (RCM) (LOG 032).** RCM is designed to familiarize students with scheduled maintenance program development, applying a reliability theory.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
WLOG 032		WPAFB OH	AF
Reliability Centered Maintenance (LOG 032).			

5.9.1. **Reliability Centered Maintenance Focus:** RCM focuses on RCM decision logic, quantitative aspects and application. Students perform analysis on selected items of military equipment and then transfer the concepts from aircraft to other military equipment. **Prerequisites:** Open to US personnel only. 1st Lt through Major, MSgt through CMSgt, or GS-7 through GS-13. **Course Length:** 5 days.

Other Applicable AFIT Courses Available

LOG 262	Applied Maintenance Management Concepts	Wright-Patterson AFB
LOG 299	Combat Logistics	Wright-Patterson AFB
LOG 399	Strategic Logistics Management	Wright-Patterson AFB
REQ 111	Capabilities Based Operational Requirements Course	Wright-Patterson AFB
SYS 170	Maintenance Planning	Wright-Patterson AFB
SYS 172	Modification Management Process	Wright-Patterson AFB
SYS 173	Product Support Management Planning	Wright-Patterson AFB
SYS 350	Reducing Acquisition Response Time	Wright-Patterson AFB
SYS 352	Incentives for Reducing Acquisition Response Time	Wright-Patterson AFB

6. **Exportable Courses.** There are no exportable courses available.

7. **Follow-on MAJCOM/Unit Courses.**

7.1. **AMC Maintenance Officers Procedures Course:** Provides training for Aircraft Maintenance Officers in AMC specific maintenance management operations concepts.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
AMC MOP	AMC Maintenance Procedures	Ft Dix NJ	AMC
AMC Maintenance Officer Procedures Course			

7.1.1. **AMC Maintenance Officer Procedures Course.** This course provides AMC aircraft maintenance officers with pertinent maintenance management information. Curriculum addresses: safety, duties and responsibilities, organizational structure of AMC, status reporting, internet/lognet, total force, personnel issues, mobility planning, professional development, manning management, maintenance training, exceptional release, environmental awareness, off station support, plans scheduling and documentation, analysis, force readiness, national strategy, readiness through wellness, and video

teleconference with HQ AMC. **Course Length:** 8 days. **Prerequisites:** Officers in grades O-3 and below unless new to AMC or career field, and at least 6 months experience after completion of the Aircraft Maintenance Officer Course. Secret security clearance is required. Security clearance will be checked during in processing. Students will need to present one of the following: (1) TDY orders displaying their security clearance or (2) a letter signed by their security manager verifying their security clearance. **Selection Process:** AMC/LGQP, 576-2523. Individuals must obtain quotas from AMC/LGQP. **Location:** Fort Dix NJ at the Air Mobility Warfare Center, Building 5656. **Course Manager:** AMWC/WCOL, SMSgt Jerald R. Akers, DSN Direct 944-4081, DSN Voice Mail 944-4101 ext 318. E-mail address: jerald.akers@mcguire.af.mil

7.2. **ACC Flight line Maintenance Officer Course:** The course provides valuable information needed by ACC Aircraft Maintenance Officers to more effectively manage a flight line under a decentralized concept.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
Y140025 ACC Flight line Maintenance Officer Course	Aircraft Maintenance	Hill AFB	AF

7.2.1. **ACC Flight line Maintenance Officer Course.** Curriculum includes flight organization and leadership, roles and responsibilities, aircraft scheduling and scheduling effectiveness, aircraft status (MESL), conventional generation management planning and execution, RSD stock fund management, supply and other maintenance programs. Highlights include an exchange of ideas and experiences between students with varying backgrounds. **Course Length:** 5 days. **Prerequisites:** This course is designed for lieutenants and captains who have completed the Aircraft Maintenance Officer Course (AMOC) and the Maintenance Officer Orientation Training Program (MOOTP) with 3 to 36 months experience on the flight line. **Selection Process:** Classes are conducted approximately eight times per fiscal year at Hill AFB. Information on class start dates or quota request must be made through your unit-training manager. They, in-turn, will contact the ACC LRC, DSN: 777-5108. Additional information concerning the ACC LRC and course offerings can be found on the Internet at <http://www.hill.af.mil/acc/contents.ssi>. **Location:** Hill AFB UT **Course Manager:** HQ ACC/XOMM, Capt John Fountain, DSN: 574-2102. E-mail address: john.fountain@langley.af.mil

7.3. **Combat Wing Maintenance Officer Course (CWMOC)** The course is designed primarily for ACC active duty Maintenance Operations Officer (MOO) and will focus on enhancing their ability to effectively manage a maintenance unit in a high ops tempo environment.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
No Course Number ACC Combat Wing Maintenance Officer Course (CWMOC)	Aircraft Maintenance	Langley AFB	AF

7.3.1. **Combat Wing Maintenance Officer Course (CWMOC).** Curriculum includes aircraft scheduling program (short/long-term planning), Ready Air Crew Program (RAP), Quality Assurance programs, maintenance training, MOO/Chief relationship, MOO/Ops officer relationship, maintenance capability formulas, logistics indicators, weapons system peculiar issues, Air Force Engineering and Technical Service (AFETS), SORTS reporting, operational risk management, supply procedures, (MICAP/Express/Repair Cycle Assets/Agile Logistics), munitions, resource management, round-table discussion with former Ops/Maintenance Squadron Commanders, and Senior Officer perspective from former OG and LG commanders. **Course Length:** 5 days. **Prerequisites:** This course is designed for lieutenants and captains who have completed the Aircraft Maintenance Officer Course (AMOC) and the Maintenance Officer Orientation Training Program (MOOTP) with 3 to 36 months experience on the

flight line. **Selection Process:** Maintenance officers who have recently been appointed as a MOO (less than a year) or have been selected to assume SMO duties within the next six months. For wings with Aircraft Generation Squadrons (i.e. Nellis, Tinker and Robins), the AGS Maintenance Supervisor is eligible to attend. The course will be made available as an option for Flying Squadron Operations Officers. All other attendees will be on a space-available basis. Information on class start dates or quota request must be made through your unit-training manager. **Location:** Langley AFB VA **Course Manager:** HQ ACC/XOMM, Capt John Fountain, DSN: 574-2102 E-mail address: john.fountain@langley.af.mil

7.4. **Jet Engine Mishap Investigation Course:** The course provides training to officers who may be assigned mishap investigation responsibilities.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
J3AZR2A671A 001 Jet Engine Mishap Investigation Course	Jet Engines	Sheppard AFB	AF

7.4.1. **Jet Engine Mishap Investigation Course.** Provides general introduction to design and construction variations of jet engine, to include small, large, and turbo fan engines, as needed for mishap investigation, policies and procedures of investigation, fluid system contamination, and identification of material failures, identification and causes of engine failures in relation to compressor and turbine failures, identification of over temperature damage, identification of bearing failures, and a comparison on in-flight and post-impact fire damage, engine power analysis procedure and temperature analysis. Inspection of crash damaged engine and components and jet engine case history studies. **Course Length:** 11 days. **Prerequisites:** Officers who may be assigned mishap investigation responsibilities. **Selection Process:** Information on class start dates or quota request must be made through your unit-training manager.

7.5. **ACC Combat Ammunition Planning and Production (AFCOMAC) Course:** The course provides valuable information needed by ACC Aircraft Maintenance Officers to more effectively manage conventional munitions.

CRS NO./TITLE	MDS/EQUIP	LOCATION	USER
ACC AFCOMAC ACC Combat Ammunition Planning and Production Course	Combat Ammunition	Beale AFB	AF

7.5.1. **ACC Combat Ammunition Planning and Production Course Focus.** Conducted by the 9th Munitions Squadron (Air Force Combat Ammunition Center). Major areas of instruction include, but are not limited to: combat planning, munitions distribution systems, development of conventional munitions plans, combat production concepts, production tasking, practical assembly of tasked munitions, and a 5 day mass production exercise. **Course Length:** 15 days. **Prerequisites:** 21A3 (2Lt thru Capt) **Selection Process:** Aircraft maintenance officers will be selected at the discretion of the MAJCOM. **Location:** Beale AFB CA **Course Manager:** HQ ACC/LGWM and HQ ACC/XOTT, SMSgt Pat Havener, XRWC 130 Douglas St. Suite 210, Langley AFB, VA, 23665, DSN: 574-4445 E-mail address: pat.havener@langley.af.mil

7.6. **USAFE Nuclear College:** For information and course descriptions go to the Nuclear College website (<https://wwwmil.usafe.af.mil/direct/lg/lgw/Training%20Home/nucc.html>)

Other Applicable MAJCOM Courses Available

Course ID	Course	Location
USAFE NMC	USAFE Nuclear Managers Course	Ramstein AB, GE
USAFE MUNSS	USAFE MUNSS Course	Ramstein AB, GE
USAFE SLNC	USAFE Senior Leaders Nuclear Course	Ramstein AB, GE
USAFE EETC	USAFE Exercise Evaluation Team Course	Ramstein AB, GE
USAFE NOCM	USAFE Munitions Accountable Systems Officer / Nuclear Ordnance Control Material Course.	Ramstein AB, GE

8. Department of Defense Courses

8.16. **Defense Acquisition University (DAU):** DAU coordinates the acquisition education and training programs to meet the training requirements of approximately 132, 000 DoD Acquisition, Technology and Logistics (AT&L) workforce personnel. As the DoD corporate university for acquisition education, the DAU sponsors curriculum and instructor training to provide a full range of basic, intermediate, advanced, and assignment-specific courses to support the career goals and professional development of the AT&L Workforce. Information and course descriptions can be found at <http://www.dau.mil/>

Other Applicable DAU Courses Available

DAU ACQ 101	Fundamentals of Systems Acquisition Management	On-Line
DAU ACQ 201A	Intermediate Systems Acquisition, Part A	DSMC, FT. BELVOIR CAMPUS
DAU ACQ 201B	Intermediate Systems Acquisition, Part B	DSMC, FT. BELVOIR CAMPUS
DAU LOG 101	Acquisition Logistics Fundamentals	On-Line
DAU LOG 102	Systems Sustainment Management Fundamentals	DSMC, FT. BELVOIR CAMPUS
DAU LOG 201A	Intermediate Acquisition Logistics, Part A	DSMC, FT. BELVOIR CAMPUS
DAU LOG 201B	Intermediate Acquisition Logistics, Part B	DSMC, FT. BELVOIR CAMPUS
DAU LOG 203	Reliability and Maintainability	On-Line
DAU LOG 204	Configuration Management	DSMC, FT. BELVOIR CAMPUS
DAU LOG 235A	Performance Based Logistics, Part A	DSMC, FT. BELVOIR CAMPUS
DAU LOG 235B	Performance Based Logistics, Part B	DSMC, FT. BELVOIR CAMPUS
DAU LOG 304	Executive Life Cycle Logistics Management	DSMC, FT. BELVOIR CAMPUS

DAU PMT 250	Program Management Tools	DSMC, FT. BELVOIR CAMPUS
DAU PQM 101	Production, Quality and Manufacturing Fundamentals	On-Line
DAU PQM 201A	Intermediate Production, Quality and Manufacturing, Part A	DSMC, FT. BELVOIR CAMPUS
DAU PQM 201B	Intermediate Production, Quality and Manufacturing, Part B	DSMC, FT. BELVOIR CAMPUS
DAU TST 101	Intro to Acquisition Workforce Test and Evaluation	On-Line

8.2 Defense Nuclear Weapons School (DNWS): DNWS provides nuclear weapons core competencies and chemical, biological, radiological, nuclear, and high explosive (CBRNE) response training to DoD, other Federal and State Agencies, and National Laboratory personnel. The DNWS provides the war fighter with topical information relating to United States nuclear weapons, weapons of mass destruction (WMD)/CBRNE, proliferation issues, nuclear accident response and radiological and health environmental issues. Information and course descriptions can be found at <https://dnws.ao.dtra.mil/>

Other Applicable DNWS Courses Available

DNWS NWOC	Nuclear Weapons Orientation Course	DNWS, Kirtland AFB, NM
DNWS TNOC	Theater Nuclear Operations Course	DNWS, Kirtland AFB, NM
DNWS RAC-3	Radiological Accident Response Command & Control Course	DNWS, Kirtland AFB, NM
DNWS RETOR	Radiological Emergency Team Operations Course	DNWS, Kirtland AFB, NM

PART II
Section E - MAJCOM UNIQUE PROCEDURES

None Identified

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

DONALD J. WETEKAM,
Lieutenant General, USAF
DCS/Installations & Logistics

Attachment 1
Training Completion Certification Signatures

The following table certifies which Aircraft Maintenance Officer training modules have been completed and the certification levels attained by

(Rank, Full Name)

Course	Certification
Aircraft Maintenance Officer Course AMOC Bridge Course AMOC Accelerated Basic Certification (Circle One)	Insert Squadron Commanders Signature Block
Unit Follow-on Training	Insert Group Commander's Signature Block
Basic Certification	Insert Group Commander's Signature Block
Senior Certification	Insert Group Commander's Signature Block
Master Certification	Insert Group Commander's Signature Block

OPR: 360 TRS/TRR (Patricia Britt), DSN 736-3612
 Approved by: Lt Col Ann Isaacs, USAF/ILMM