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CFETP 21AX  
Parts I and II  
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# 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 to 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.*

**CAREER FIELD EDUCATION AND TRAINING PLAN  
AIRCRAFT MAINTENANCE OFFICER  
AFSC 21AX  
TABLE OF CONTENTS**

**PART I**

<b>PREFACE</b>	<a href="#"><u>4</u></a>
<b>Abbreviations/Terms Explained</b>	<a href="#"><u>6</u></a>
<b>Section A, General Information</b>	<a href="#"><u>11</u></a>
Purpose of the CFETP	
CFETP Uses	
Coordination and Approval	
<b>Section B, Career Field Description, Training and Progression</b>	<a href="#"><u>13</u></a>
The Aircraft Maintenance Officer Career Field	
The Maintenance Officer and the Deliberate Continuum of Learning (DCoL)	
U&TW Training Decisions	
Career Path/Training Flow	
<b>Section C, Proficiency Training Requirements</b>	<a href="#"><u>21</u></a>
Purpose	
21A1 and 21A3 Specialty Qualifications	
<b>Section D, Resource Constraints</b>	<a href="#"><u>22</u></a>

**PART II**

<b>Section A, Course Training Standards</b>	<a href="#"><u>23</u></a>
Task, Knowledge, and Proficiency Level requirements	
<b>Section B, Support Materials</b>	<a href="#"><u>24</u></a>
Purpose	
AFSC Awarding Courses	
Non-AFSC Awarding Courses	
Aircraft Maintenance Supplementary Courses	
Field Training Detachment Courses (FTD)	
Exportable Courses	
Air Force Institute of Technology (AFIT)	
Follow-on MAJCOM/Unit Courses	
Department of Defense Courses	
<b>Section C, Support Material</b>	<a href="#"><u>27</u></a>
Follow-on Unit Training	
Maintenance Officer Training Task List	
21A3 certification requirements	
Senior certification requirements	
Master certification requirements	

## TABLE OF CONTENTS CONTINUED

<b>Section D, MAJCOM Unique Requirements</b>	<a href="#"><u>38</u></a>
Suggested 797 Workcenter Tasks	

### Tables

Table 1. The Deliberate Continuum of Learning building blocks	<a href="#"><u>14</u></a>
Table 2. Grandfather Plan	<a href="#"><u>16</u></a>
Table 3. 21A Training Flow (Accessions)	<a href="#"><u>18</u></a>
Table 4. 21A Training Flow (Cross Train)	<a href="#"><u>18</u></a>
Table 5. Aircraft Maintenance Officer Career Progression	<a href="#"><u>20</u></a>

### Attachments

Attachment 1: Resident Course Training Standards (CTS) Qualitative Requirements	<a href="#"><u>44</u></a>
Attachment 2: CTS, Aircraft Maintenance Officer Course (AMOC)	<a href="#"><u>45</u></a>
Attachment 3: CTS, Accelerated Aircraft Maintenance Officer Course (AAMOC)	<a href="#"><u>51</u></a>
Attachment 4: CTS, Maintenance Officer Intermediate Course (MOIC)	<a href="#"><u>54</u></a>

## 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 Officer 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 four sections. Section A identifies the Course Training Standards (CTS) which includes duties and tasks to support AETC and unit training requirements; Section B lists all mandatory AF in-residence, field, HQ AU/A4L, and exportable courses used to support training; Section C identifies available support materials Section D is 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.** The following individuals must utilize this CFETP to ensure Aircraft Maintenance Officers receive training and skill-enhancing experience at appropriate stages in their development. Additionally, the following individuals below must comply with but are not limited to the following duties and responsibilities:

3.1. **Individual:** Individual will complete CFETP core requirements within 24 months of being assigned to a 21A position to achieve upgrade to 21A3. Group commanders, may extend this requirement. Check records to ensure 21A3 certification has been awarded.

3.2. **Unit Training Manager:** Responsibilities are outlined in AFI 36-2201. Responsibilities include loading member's CFETP into electronic training records (TBA) and assisting the supervisor and commander with tracking/managing. Grant supervisors and commanders access to member's electronic training record.

**3.3. Supervisor/Operations Officer:** Supervisors and operations officers will ensure officers in training understand fundamentals of each CFETP task, manage and control officer progression through career field, and document training in CFETP or electronic equivalent, except in the case of performance based tasks where it may be signed off by a trainer or instructor. Determine work centers an officer will visit, identify local aircraft and equipment training tasks, and review training progress with trainees quarterly and document review. Verify pre-task/task/post-task actions are included for follow-on training, identify tasks in addition to core tasks, and certify completion of training.

**3.4. Squadron Commander:** Squadron commanders, or equivalent, are responsible for ensuring their assigned officers meet the requirements of the CFETP. Squadron commander (or next higher authority) will certify the officer's progression by documenting task completion on the "Training Completion Certification" sheet in the CFETP or electronic equivalent. Award the 21A3 and senior certification, ensuring 21A3 certification has been awarded and updated in an officer's personnel record.

**3.5. Group Commander:** Group 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 ensures the best possible training environment for maintenance officers. Award Master Certification.

## **ABBREVIATIONS/TERMS EXPLAINED**

**AAMOC.** Accelerated Aircraft Maintenance Officer Course.

**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 complement 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. The 9th Munitions Squadron at Beale AFB, CA administers the Air Force Combat Ammunition Center (AFCOMAC) training program. This Air Force-level course was developed to provide the Air Force munitions community with advanced training in mass combat ammunition planning and production techniques. It uses a combination of in-depth classroom instruction combined with a four-day intensive practical exercise (IRON FLAG) using live munitions in a realistic, bare-base scenario.

**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).

**AMMOC.** Aircraft and Munitions Maintenance Officer Courses. Refers to the maintenance officer schoolhouse at Sheppard AFB; encompasses AMOC, Accelerated AMOC, MOFC, CMOC, NMOC MOIC and NAC.

**AMOC.** Aircraft Maintenance Officer Course. Course taught by AETC to new Aircraft Maintenance Officer Accessions or cross flowing officers.

**AMMOS.** Advanced Maintenance and Munitions Operations School. An advanced maintenance course for intermediate level Maintenance Officers and SNCOs.

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

**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 Air and Space Basic Course and Squadron Officer School.

**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 fiscally prudent.

**CLS. Contractor Logistics Support.** Contractor support includes the cost of contractor labor, materials, and overhead incurred in providing all or part of the logistics support to a weapon system, subsystem, or associated support equipment. Contract maintenance is performed by commercial organizations using contractor personnel, material, equipment, and facilities or government-furnished material, equipment, and facilities. Contractor support may be dedicated to one or multiple levels of maintenance and may take the form of interim contractor support (ICS), where the services are provided temporarily (usually in the initial phases of a system's operation), or contractor logistics support (CLS), where the support extends over the operational life of the system. Other contractor support may be purchased for engineering and technical services.

**Continuation Training.** Follow-on unit training.

**Core Task.** Tasks the AFCFM identify as minimum qualification requirements for everyone within an Air Force specialty regardless of duty position. Core tasks may be specified for a particular skill level or in general across the AFSC.

**CTS. Course Training Standard.** A specialized document that identifies the tasks and/or knowledge requirements and level of proficiency provided within a specific course of training. The document serves as a contract between AETC and its customers. It standardizes and controls the quality of officer training.

**DA. Developmental Assignment.** A deliberate approach to gaining varied "hands on" experience to help prepare for senior leadership positions by focusing on specific competencies to be strengthened through each assignment.

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

**DCoL. Deliberate Continuum of Learning.** A purposeful education and focused training roadmap that supports career path progression across key logistics mission sets to include deployment & distribution, supply chain, repair network integration, life cycle logistics and joint logistics. The training roadmap includes courses that are available to all maintenance officers at the appropriate time in their career.

**DE. Developmental Education.** Critical component of the force development construct and represents a large investment in the continuum of our Airmen's growth. DE is a deliberate process for developing our future leaders through traditional military education, advanced academic degrees or experiential assignments with industry or academic institutions.

**DOD. Department of Defense.**

**DT. Developmental Team.**

**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 solicit feedback from supervisors and/or graduates to determine if the graduates were trained as specified in the course training standard.

**GAS. Graduate Assessment Survey.** The GAS gathers customer feedback on AF graduates from designated initial skill courses.

**IAW. In Accordance With.**

**IDE. Intermediate Developmental Education.** Specific education including (but not limited to) Air Command and Staff College, US Army Command and General Staff College, College of Naval Command and Staff, Marine Corps Command and Staff College, USAF Academy AOC Masters Program, Air Force Institute of Technology and other identified advanced academic degree programs.

**Intermediate Training.** A formal course that builds on previous education & training venues and experience. Focuses on preparing officers for duties commensurate with squadron Director of Operations and beyond.

**ILS. Integrated Logistics Support.** Integrated Logistics Support (ILS) is the disciplined and unified management of the technical logistic disciplines that plan and develop Logistics Support Requirements for military forces and which will ensure System product Quality in terms of Reliability, Availability, Maintainability, Testability (RAMT).

**IPZ. In the Promotion Zone.** e.g., primary zone.

**IST. Initial Skills Training.** IST is a formal AETC resident course, which results in award of the entry skill level.

**ITP. Individual Training Plan.** Individual's plan that is intended to be a complete history of past training and current qualifications. Supervisors will ensure all documentation is accurate and comprehensive. Use Training Business Area (TBA) to document training. TBA reflects past and current qualifications and is used to determine training requirements.

**MCOC. Maintenance Course for Operational Commanders.** This CSAF-directed course provides training for field grade Air Force mission ready officers (aeronautically rated) selected for assignment as operations squadron commanders or director of operations in an operational flying unit. The scope of training includes subject material covering maintenance management and philosophy, munitions, fleet health management/sortie production, workforce management, maintenance support, expeditionary operations, and maintenance resource management with a focus on Air Force core competencies in today's transformational environment.

**MFM. MAJCOM Functional Manager.** Manage career fields for a MAJCOM and serve as the MAJCOM liaisons for their respective AFCFMs. MFMs monitor the health and manning of their career fields within their command and elevate concerns to the AFCFMs. They manage command training for their career field and coordinate associated issues with the MAJCOM staff and AFCFMs. They disseminate Air Force and career field policies and program requirements affecting their career field throughout the MAJCOM. They coordinate with AFPC to distribute personnel throughout the MAJCOM to ensure proper command prioritization of allocated and assigned personnel resources. They provide functional and subject-matter expertise to AETC training managers to develop new training programs or improve existing ones.

**MGRC. Mission Generation Road Course.** This is a CSAF-directed program that travels base to base. This AETC-taught and managed 2-day course is facilitated by a team consisting of one maintenance officer and one aeronautically rated officer. The program objectives are to facilitate communications and understanding between ops/mx, improve officer/enlisted mentoring, and create a team that understands each other's TTPs and the balance between ops/mx requirements.

**Mission Generation.** Includes responsibility for on-aircraft maintenance and may include off-aircraft maintenance; preparing aircraft for flight, routine flight line maintenance, refueling operations, towing, servicing hydraulics and oil, and launching and recovering aircraft. Additionally, mission generation 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.

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

**MSEP. Maintenance Standardization Evaluation Program.** The Maintenance Standardization and Evaluation Program (MSEP) is designed to be a feedback system for maintenance leaders, supervisors and workers. The program permits the maintenance group commander (MXG/CC) to focus QA efforts on specifically known or suspected problem areas and is a dynamic assessment system designed to be flexible.

**MTL. Master Task List.** A comprehensive list (100%) of all tasks performed within a work center and consisting of the current CFETP or AFJQS and locally developed AF Forms 797 (as a minimum). Should include tasks required for deployment and/or UTC requirements.

**PIP. Product Improvement Program.** A conscientiously applied process of identification, analysis, and corrective action of product deficiencies. In this process the user identifies deficiencies in air and space equipment and informs the responsible single manager. The single manager analyzes and corrects these discrepancies by either: Improving procedures and Modifying or replacing equipment.

**Qualification Training.** Training designed to expose officers to job-related tasks and concepts. This training also serves to qualify officers on tasks identified in Part II of this CFETP.

**Repair Network.** Includes 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 control program.

**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.

**SLMG. Senior Leaders' Mission Generation Course.** A Chief of Staff initiative developed to educate wing leadership on aircraft maintenance, operations, and flightline support in mission generation. Its objectives include: strengthen the relationship and teamwork between operations, maintenance, and support; deepen insight into unit operations, maintenance, and support activities; and focus attention on policy, procedures, training, discipline, and enforcement.

**SOS. Squadron Officer School.**

**TAFCS. Total Active Federal Commissioned Service.**

**TBA. Training Business Area.** Web application that provides supervisors access to virtual training products, such as CFETPs, Air Force job qualification standards, as well as master and individualized training plans.

**TO. Technical Order.**

**TOS. Time on Station.**

**Total Force.** The collective 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 for career field functional managers, commanders, supervisors, trainers, and the technical training centers 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. **CFETP uses.** MAJCOM Functional Managers (MFM) and supervisors at all levels will use this plan to ensure a comprehensive and cohesive training program is instituted for each officer.

2.1. Air Education and Training Command (AETC) develops/revises formal resident, and exportable training based on user requirements documented in this CFETP. AETC is responsible for developing procurement and acquisition strategies to obtain the resources required to provide training identified in the CFETP. The AETC Course Training Manager (AETC CTM) and the AFCFM are the custodians of this CFETP and ensures HQ AFPC/DPPAT receives approved revisions for publication. The AETC CTM is responsible for notifying HQ AETC to index the CFETP in <http://www.e-publishing.af.mil>.

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. The CFETP or electronic equivalent is the training plan used by the 21A officer to determine training requirements and understand the career field paths and opportunities available. Each 21A officer will complete the mandatory follow-on training requirements specified in this plan and as specified by the unit and document it in TBA.

2.5. 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. Recommend officers returning to other career fields continue to maintain this record for future requirements.

3. **Coordination and Approval.** The CFETP is approved and maintained by the Air Force Career Field Manager (AFCFM) in accordance with (IAW) AFI36-2201, Air Force Training Program Career Field

Education and Training. Forward recommended changes to the AFCFM, HQ USAF/A4LF. MAJCOM requests for additional training must either be accompanied by funding or must be satisfied within existing resources. The AFCFM is the approval authority. MAJCOM representatives and AETC training personnel will identify and coordinate career field training requirements. The AETC CTM for AFSC 21A will coordinate with the AFCFM to initiate an annual MAJCOM review of this document to ensure currency and accuracy.

4. Use of TBA or approved electronic training record is mandatory for all active, guard, and reserve munitions personnel to document CFETP requirements. Contact your MAJCOM 21A functional if unable to comply with this mandate.

## **PART I**

### **SECTION B - CAREER FIELD DESCRIPTION, TRAINING AND PROGRESSION**

**1. The Aircraft Maintenance Officer Career Field.** The 21AX AFSC includes aircraft maintenance. Paragraphs 1.1 through 1.2.7 are from the most current AFOCD IAW AFI 36-2101, Classifying Military Personnel.

1.1. Specialty Description. 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: 240400.

1.2. Duties and Responsibilities.

1.2.1. Directs aircraft maintenance -mission generation and repair network- 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 fiscal resources. Instills maintenance discipline, security awareness and force protection concepts. Ensures accuracy of documentation, i.e. aircraft forms and automated systems. Ensures adherence to technical data, policy, procedures and safe maintenance practices.

1.2.2. 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 flight line safety and foreign object damage (FOD) prevention and dropped object programs (DOP). Manages overall aircraft fleet health and ensures aircraft availability to execute mission requirements. Analyzes aircraft maintenance indicators to identify trends and initiates corrective actions.

1.2.3. Directs maintenance activities that may include aircraft propulsion, pneudraulics, egress, fuel systems, electro-environmental, Precision Measurement Equipment Laboratory (PMEL) and avionics systems. Also may include management of aerospace ground equipment, structural repair, low-observable repair, corrosion control, machine, welding, inspection, aero-repair, crash, damaged, disabled aircraft recovery, non-destructive inspection, and off-equipment munitions and armament suspension equipment.

1.2.4. Manages 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, modifications, and modernizations requirements.

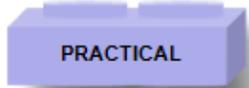
1.2.5. Formulates maintenance plans and policies to meet unit tasking. Assesses unit maintenance capability in support of combat related operational plans and provides inputs for capability assessments for each plan. Defines aircraft maintenance procedures and requirements in response to emergency or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

1.2.6. 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.

1.2.7. Directs and manages wholesale logistics life cycle sustainment support. Coordinates production schedules to include induction and selling systems. 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, funding of depot maintenance workloads, and transportation distribution systems. Manages logistics tests and evaluation on new acquisition programs and aircraft modifications.

2. **The Maintenance Officer and the Deliberate Continuum of Learning (DCoL).** 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 that 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 focused and appropriately-timed education and training throughout their careers. Table 1 is a visual depiction of the building blocks for the Maintenance Officer DCoL and the following narrative provides guidance on how to build a well-rounded maintenance officer.

**Table 1. The Deliberate Continuum of Learning building blocks**

 <p><b>ADVANCED</b></p>	<p><b>Study of advanced concepts in Tactical Operations, Agile Combat Support, Supply Chain Management and Joint Logistics</b>  <i>- Residence (DT-Vectored)</i></p>
 <p><b>INTERMEDIATE</b></p>	<p><b>Study of concepts and tools commensurate with squadron Director of Operations duties. Introduction to operational and strategic level of command , as well as joint logistics concepts</b>  <i>- Correspondence</i></p>
 <p><b>PRACTICAL</b></p>	<p><b>Practical application of skills and key processes learned in basic course</b>  <i>- OJT / Web-based Exportables</i></p>
 <p><b>FUNDAMENTAL</b></p>	<p><b>Basic organizational structure and key processes</b>  <i>- Residence</i></p>

## 2.1. Skill Certification.

2.1.1. 21A3 Certification. Representative grades are normally O-1 through O-3. IAW Air Force Officer Classification Directory, the following are mandatory for 21A3 certification: completion of a formal AETC entry-level training course; 24 months managing aircraft maintenance activities; and completion of the education and training requirements specified in the Aircraft Maintenance Officer Training Task List.

2.1.2. Senior Certification. Representative grades are normally O-3 through O-4. An officer will be eligible for the Senior level at the 7-year point in specialty (time spent outside of career field in positions not coded as 21AX does not count toward award of senior certification unless waived by the group commander or equivalent), provided he/she has completed the education and training requirements specified in the Aircraft Maintenance Officer Training Task List.

2.1.3. Master Certification. Representative grades are normally O-4 and higher. An officer will be eligible for the Master certification at the 15-year point in the specialty (time spent outside of career field in positions not coded as 21AX does not count toward award of master certification unless waived by the group commander or equivalent), provided he/she has completed the requirements specified in the Aircraft Maintenance Officer Training Task List.

## 2.2. Career Progression

2.2.1. Entry Level. IAW AFI 36-2201, Air Force Training Program Training Management, initial skills training (IST) must be completed within 6 months of entering active duty unless restricted by lack of security clearance or other extenuating circumstances. Upon successful completion of the 21A AETC IST Aircraft Maintenance Officer Course, graduates will receive entry level 21A1 AFSC. Initial assignments provide opportunities to establish and build depth of knowledge and technical expertise within the aircraft maintenance career field. Group Commanders will expose new officers to the entire mission of the unit.

2.2.1.1. Positions include, but are not limited to those listed in Table 5.

2.2.1.2. Entry Level officers should understand all requirements within the Career Field Education and Training Plan (CFETP).

2.2.2. **Intermediate Level.** Company grade officers should begin to broaden their breadth of knowledge, experience, and expertise by pursuing Developmental Assignment (DA) opportunities. Timing and needs of the AF as well as individual goals will determine DA opportunities for each individual. Company grade officers are expected to pursue Developmental Education (DE) opportunities. To develop a firm foundation in the maintenance career field, at least two of the first three assignments should be in a 21A position. Back-to-back career broadening assignments are strongly discouraged. Senior Captains are required to attend the AETC Maintenance Officer Intermediate Course (MOIC) or Advanced Maintenance and Munitions Operations School (AMMOS) Combat Support Course (CSC).

2.2.2.1. Positions include, but are not limited to those listed in Table 5.

2.2.3. **Staff and Senior Level.** 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 in the joint or greater logistics enterprise. Field grade officers are expected to pursue Developmental Education (DE) opportunities commensurate with his/her rank.

2.2.3.1. Positions include, but are not limited to those listed in Table 5.

**2.3. Grandfathering CFETP Requirements.** In 2002, the decision was made that officers already holding the 21A core AFSC would not be required to complete certain CFETP training requirements. Table 2, below, indicates by Total Active Federal Commissioned Service Date (TAFCS D) which tasks were grandfathered for those officers. All officers accessed/cross-flowed/cross-trained to the career field after 2002 are required to meet all requirements set forth in the CFETP to earn officer certifications.

**Table 2. Grandfather Plan**

TAFCS D/TFCS D	CFETP Certification Requirements		
	21A3	Senior	Master
1 Jan 02 through current	All	All	All
1 Jan 97 through 31 Dec 01*	Grandfathered	MOIC/CSC & 7 yrs in AFSC	All
1 Jan 91 through 31 Dec 96	Grandfathered	Grandfathered	All
1 Jan 89 through 31 Dec 90	Grandfathered	Grandfathered	15 yrs in AFSC
31 Dec 88 and prior	Grandfathered	Grandfathered	Grandfathered

\* MOIC waiver requests need to be submitted through HAF/A4LF.

**2.3.1. Prior-Enlisted Maintenance Officers.** IAW AFI 36-2903, Dress and Appearance, prior-enlisted officers who held senior/master maintenance badges may continue to wear awarded badges. However, these officers are required to meet all CFETP training requirements for maintenance officer career progression. Time served in any prior enlisted maintenance AFSC counts toward the officer's maintenance badge level (e.g., a First Lieutenant with four years in an enlisted maintenance AFSC and three years as a 21xx may wear the senior maintenance badge).

**3. U&TW Training Decisions:** After reviewing OAR data, formal training data, course training standards, and available formal/informal courses, the following decisions were made:

3.1. A focus of the 21A U&TW was to begin reshaping 21A/M courses as building blocks within the Deliberate Continuum of Learning with emphasis on the need to train and educate maintenance officers at the right time at the tactical, operational and strategic levels. Changes of note included:

3.1.1. Replacing Behavioral statements with Proficiency Codes in order to more clearly define the training and knowledge level required for any given line item.

3.1.2. The Training Task List (TTL) for 21A3 was substantially revised.

3.1.3. Continuing Educational course requirements were deleted for the Master Certifications.

3.1.4. AMOC/MOIC are no longer optional for the Air Reserve Component.

3.1.5. The Career Pyramid was updated reflecting key jobs and developmental opportunities.

3.1.6. AMOC Synopsis: The AMOC review resulted in 7 CTS line items deleted from the list and 3 items added. In general, most items were validated at current proficiency levels. Initial estimates reveal that course length will remain unchanged. Approximately 30% of CTS items were revised beyond just the proficiency level.

3.1.7. MOIC Synopsis: MOIC was substantially revised. The MOIC CTS was more closely aligned with AMMOS and the proficiency codes changed on certain CTS elements. Site visits were cancelled.

3.1.8. Accelerated AMOC Synopsis: The changes made in AMOC will also be reflected in the accelerated course. As with AMOC, there is no change to course length anticipated.

3.1.9. Accelerated MOIC Synopsis: The Accelerated MOIC course was deleted in its entirety. The Guard and Reserve voting members stated an accelerated requirement no longer exists.

4. **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. Table 3. Training Flow (Accessions) and Table 4. Training Flow (Cross Train) describes the career path/training opportunities and outlines when training is required for career progression within this specialty.

4.1. When initially assigned to aircraft maintenance, officers are expected to build depth through technical experience within the aircraft maintenance arena. Unit level Maintenance Officers are initially assigned to mission generation network, repair network, or MXG Staff.

4.2. After initial assignment there are various paths available to reach senior level maintenance positions. It is important to gain experience in both mission generation and repair network aspects of the maintenance career field. Several permanent change of station (PCS) moves are normally required for you to experience these aspects to sufficient depth. Career broadening opportunities within complementary skill areas will provide additional breadth.

**Table 3. 21A Training Flow (Accessions)**

<b>TIS</b>	<b>21AX AIRCRAFT MAINTENANCE OFFICER CAREER PATH/TRAINING FLOW Second Lieutenant - Accessions</b>
0 - 24 Months	21A1: Attend AMOC. Successful completion results in award of 21A1 entry level AFSC.  Follow-on unit training and CFETP. Eligible to start working on Senior certification. Promotion to First Lieutenant. When a 21A1 successfully completes 24 months in a maintenance position and completes all CFETP mandatory training, the squadron commander will award the 21A3 Qualified level AFSC. Begin advanced academic degree.
4 Years	Promotion to captain, SOS in-residence window begins. Eligible for cross flow to 21MX positions. Maintenance Officer Intermediate Course (MOIC) window begins.  Continue to work on requirements for Senior certification. Eligible for career broadening opportunities. Complete advanced academic degree.
6 Years	Opportunities begin for AFIT Logistics Management Graduate Program. Window for Advanced Maintenance and Munitions Operations School (AMMOS) Combat Support Course (CSC)
7 Years	SOS window ends.
10 Years	Window for AMMOS CSC ends.
8-13 Years	IPZ promotion to major, IDE windows begin, begin working on Master certification.
14-17 Years	IDE window ends. IPZ selection to lieutenant colonel, SDE window begins. Opportunities begin for award of Master certification with completion of CFETP.
18-22 Years	SDE window ends, IPZ selection opportunity to colonel.

\* DE and Promotion windows may not apply to ARC

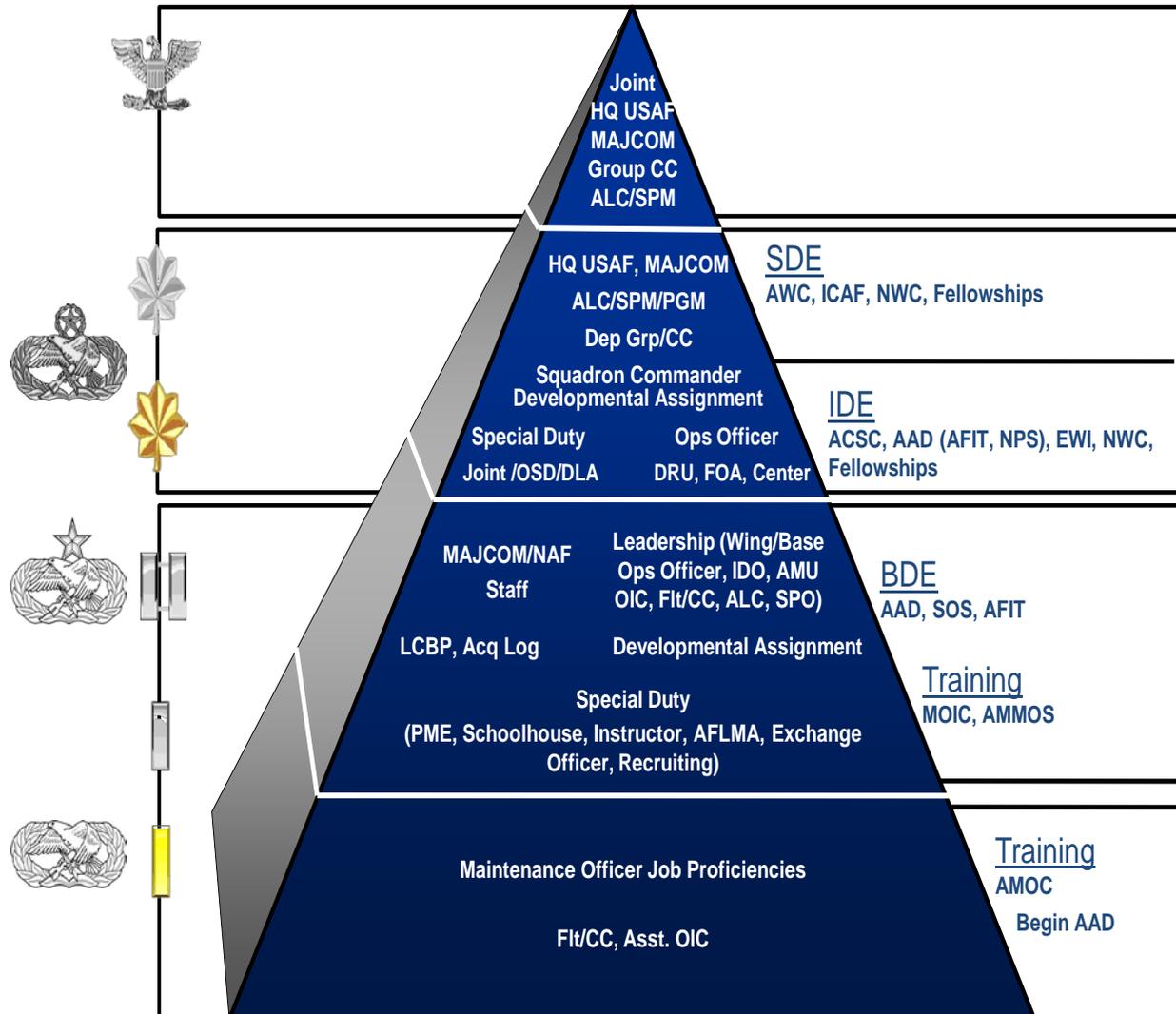
**Table 4. 21A Training Flow (Cross Train)**

<b>TIS</b>	<b>21AX AIRCRAFT MAINTENANCE OFFICER CAREER PATH/TRAINING FLOW Captain - Cross Train</b>
4 Years	Promotion to captain, SOS in-residence window begins. 21A1: AMOC (14 weeks) or Accelerated AMOC (3 weeks) and award entry level AFSC.
6 Years	When a 21A1 successfully completes 24 months in a maintenance position and completes all CFETP mandatory training, the squadron commander will award the 21A3 Qualified level AFSC. Opportunities begin for AFIT Logistics Management Graduate Program. Window for AMMOS CSC begins.
7 Years	SOS window ends. Opportunities begin for award of Senior Certification with completion of MOIC or CSC and CFETP.
8-11 Years	IPZ promotion to major, IDE windows begin. Opportunities continue for award of Senior Certification with completion of MOIC or CSC and CFETP.

10 Years	Window for AMMOS CSC ends.
14-17 Years	IDE window ends. IPZ selection opportunity to lieutenant colonel, SDE window begins. Opportunities begin for award of Master certification.
18-22 Years	SDE window ends. IPZ selection opportunity to colonel. Opportunities continue for award of Master certification.

\* DE and Promotion windows may not apply to ARC

**Table 5. Aircraft Maintenance Officer Career Progression**



## 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. Officers will develop depth on their first unit level assignment by gaining experience both as a leader and a functional expert. A minimum of 4 years of experience is recommended before cross flowing into a second functional area or requesting AETC instructor duty. As senior captains and majors, maintenance officers should consider a headquarters staff position and a tour as operations officer to gain valuable experience and further their development. The 16-year experience point, generally a Lt Col, is a rough expectation of when the maintenance officer will be fully qualified and prepared to succeed at any senior maintenance position.

2. **21A1 and 21A3 Specialty Qualifications:** Once the officer successfully completes IST, and meets time requirements the officer can be considered for upgrade to a 21A3, IAW with AFOCD. The squadron commander will verify the maintenance officer has completed training requirements for award of 21A3 AFSC and certify the officer for upgrade.

2.1. **Knowledge.** The following knowledge is mandatory for award of the AFSC: maintenance and personnel management procedures, organizational and mission requirements; capabilities, limitations, and basic operating principles of aircraft systems and components; theory of flight and airframe construction; life cycle sustainment, quality assurance; supply, transportation, logistics plans, contracting, flying operations, munitions, and other unit operations related to aircraft maintenance units.

2.2. **Education.** For entry into this AFSC, an undergraduate academic degree in engineering, management, industrial management, business management, logistics management, or physical sciences is desirable.

2.3. **Training.** For award of the 21A3, completion of AETC in-residence Aircraft Maintenance Officer Course (AMOC) is mandatory.

2.4. **Experience.** For award of AFSC 21A3, a minimum of 24 months of experience managing aircraft maintenance activities.

2.5. **Training Sources.** A list of all courses supporting education and training is in Part II, Section B.

2.6. **Implementation.** The tables in Part II, Section C outlines tasks that should be taken to reach appropriate training levels.

## **PART I**

### **SECTION D - RESOURCE CONSTRAINTS**

1. **No Resource Constraints:** No resource constraints were identified during the revision of the CTSs for all 21AX courses. Any resource constraints identified during course revision will be forwarded for Course Resource Estimate and forwarded to AETC/A3TM Training Pipeline Manager for resolution IAW AFI 36-2201 and AETCI 36-2203.

## **PART II**

### **SECTION A - COURSE TRAINING STANDARD**

1. **Task, Knowledge, and Proficiency Level requirements.** These are based on an analysis of the duties contained herein and validated by the U&TW. The qualitative requirements for each task are based on the proficiency values listed on the Proficiency Code Key in Attachment 1.

1.1. **Customer Feedback.** Unit supervisors will submit responses to Graduate Assessment Surveys (GAS) and Field Evaluation Questionnaires (FEQ) on officers who complete the formal MOFC training at Sheppard AFB. Respond to GASs and FEQs when received from the technical training group (82 TRG). (Reference AFI 36-2201)

1.2. **Records Documentation.** The CFETP will be issued at first duty station. Completion of training will be documented in TBA.

1.3. **Aircraft Maintenance Officer Training Requirements by Course.** The Course Training Standards (CTS) are listed in the attachments of this CFETP. Task, Knowledge, and Proficiency Levels are broken out by each training course CTS.

## PART II

### Section B –TRAINING COURSE INDEX

1. Purpose. This section of CFETP identifies training courses available in the aircraft maintenance officer specialty and shows how 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) contains more detailed course information at <https://etca.randolph.af.mil>. Refer to this site for more detailed course information.

#### 2. AFSC Awarding Courses.

**2.1 Aircraft Maintenance Officer Course (AMOC) Training.** This AFSC awarding course provides the basic knowledge and skills needed to perform Aircraft Maintenance Officer duties for active duty Air Force officers (new accessions, career broadening), Air Reserve Component (AFRC/ANG) officers, and International officers entering the Aircraft Maintenance Officer Career Field. The scope of training includes support equipment, airframe, aircraft accessories, avionics, propulsion, munitions orientation, munitions flight organization, physical security/resource protection, explosive safety, munitions build-up, armament, Air Force publication systems, maintenance forms, maintenance organization/functions, personnel, financial resource management, programs, Air Force occupational safety and mishap prevention, environmental protection, nuclear operations, plans and scheduling, status and measurement, logistics, operations, unit level maintenance, contingency operations, Air Force inspection programs, AF Doctrine, and a case study with senior officers/SNCO/NCO perspectives

**2.1.1. Aircraft Applications Focus.** AMOC students must understand mission generation and repair network operations.

**2.1.2.** In the event of war, AMOC students will complete the course in its entirety.

**2.1.3. Formal Training.** AMOC is AETC formal training. The AMOC CTS in Attachment 2 lists the formal initial skills training requirements.

**2.2. Accelerated Aircraft Maintenance Officer Course (AAMOC).** This AFSC awarding course is designed for Air National Guard/Air Force Reserve officers with prior service maintenance experience (5-skill level or above) who are scheduled to enter the Aircraft Maintenance Officer career field. Active duty Munitions/Missile Maintenance Officers may attend this course. The scope of training includes munitions, nuclear operations, armament, Air Force publication systems, maintenance forms, maintenance organization/functions, personnel, resource management, programs, Air Force occupational safety and mishap prevention, environmental protection, plans and scheduling, status and measurement, logistics, operations, unit level maintenance, contingency operations, AF Doctrine, and AF inspection programs.

**2.2.1. Aircraft Maintenance Applications Focus.** AAMOC students must understand mission generation and repair network operations.

2.2.2. In the event of war, AAMOC students will complete the course in its entirety.

2.2.3. **Formal Training.** AAMOC is formal AETC training. The AAMOC CTS in Attachment 3 lists the formal initial skills training requirements.

### 3. **Non-AFSC Awarding Courses.**

3.1. **Maintenance Officer Intermediate Course (MOIC).** This course provides training for mid-level company grade maintenance officers in the knowledge and skills needed to function proficiently as a Maintenance Operations Officer (MOO) and to command a maintenance squadron. The scope of training includes Air Force Materiel Command's (AFMC) interaction between lifecycle management/acquisition managers, operations, training, personnel readiness, budget, analysis, explosive and weapons safety, quality assurance, material management processes, deployments/employments, maintenance leadership and process management, repair network operations, and a squadron command forum.

3.1.1. **Maintenance Applications Focus.** MOIC students must understand aircraft, mission generation and repair network operations.

3.1.2. In the event of war, MOIC students will complete the course in its entirety.

3.1.3. **Formal Training.** The Maintenance Officer Intermediate Course is an AETC formal training course. The MOIC CTS in Attachment 4 lists the formal training requirements.

### 4. **Aircraft Maintenance Supplementary Courses.**

4.1. **Aircraft Mishap Investigation Course (AMIC):** This course is designed for 21A officers, to prepare them to be mishap investigation board members (SIB/AIB). Target audience is GS-9 or above civilians and military equivalents.

4.2. **Aerospace Propulsion Craftsman, Jet Engine Mishap Investigation Course (JEMIC):** The course provides training to 21A officers who may be assigned jet engine mishap investigation responsibilities (AIB/SIB). Target audience is NCOs with propulsion background, SNCOs, fully qualified 21A3s, and GS-9 or above civilians.

4.3. **Mishap Investigation Non-Aviation (MINA) Course.** This 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. Target audience is full-time ground safety personnel with enlisted 5-level, officers, and GS-9 civilians and above.

5. **Field Training Detachment Courses.** There are Training Detachment (TD) courses available at many locations – contact your unit training manager for applicability and availability.

6. **Exportable Courses.** Go to Air Force Distance Learning System (ADLS) website for complete

listing of distance learning courses available for technical order, aircraft familiarization training, and maintenance information systems training.

**7. Air Force Institute of Technology (AFIT) Courses:** AFIT is the Air Force's premier institution of professional and graduate education in acquisition, logistics, engineering, and management. Go to <http://www.afit.edu/ls/courselist.cfm> for more information.

#### **8. Follow-on MAJCOM/Unit Courses.**

**8.1. AMC Maintenance Officers Course:** Provides training for Aircraft Maintenance Officers in AMC specific maintenance management operations concepts. Target audience is O-3 and below with at least six months experience upon completion of AMOC. Contact unit training manager for more information.

**8.2. Air Force Combat Ammunition Planning and Production Senior Officer Orientation Course:** This course is designed for senior leaders who will be responsible for managing munitions activities. Target audience is O-4 and above who will be assuming Sq/Gp CC duties. Contact unit training manager for more information.

#### **9. Department of Defense Courses.**

**9.1. 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/>.

**9.2. Defense Threat Reduction Agency (DTRA).** DTRA courses can be found at the following link: [www.dtra.mil/oe/cs/programs/training/dnws/registration.cfm](http://www.dtra.mil/oe/cs/programs/training/dnws/registration.cfm).

## PART II

### SECTION C - SUPPORT MATERIAL

1. **FOLLOW-ON UNIT TRAINING.** Designed to teach new officers how concepts presented at technical school instruction are applied at the unit level.

1.1. **Concept.** Ideally officers should complete AETC formal training prior to unit training. The intent of follow-on unit training is to provide a local training plan to familiarize officers with unit specific procedures and operations. Follow-on unit training consists of the tasks identified by the unit. 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, supervisor/commander interaction to meet training objectives. Squadrons/Groups should produce a local Maintenance Officer Training Plan (MOTP) to standardize and formalize follow-on unit training processes.

1.3. **Familiarization Training and Workcenter Visits.** Officers must be scheduled to observe familiarization tasks from start to finish. Supervisors will ensure pre-task, 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. Unit training should also include work center visits. Visits consist of tours of all maintenance work centers and key support agencies as determined by the commander/supervisor.

1.4. **Training Documentation.** Document the officer's training in TBA; this includes upgrade training and it will be placed as a journal entry.

1.4.1. Supervisors will review TBA with trainees at an initial interview within 60 days of the trainee's assignment to the unit. During the interview the supervisor and trainee will discuss core task requirements (identified by an \*) and explain that core tasks must be completed within 24 months after assignment to a 21A position. Document the initial interview.

1.4.2. Supervisors will identify tasks, in addition to the core tasks, the trainee will be required to complete, as some installations may not have all the required equipment, supervisors will identify core tasks able to be completed in TBA. Every effort should be made by the trainee to meet the core task requirement when able (TDY, loaner equipment, etc.).

1.4.3. For the Basic Certification Training Task List, supervisors will review training progress with trainees quarterly. Supervisors will conduct the review on this basis until all items are complete. Documentation of this review will be in TBA.

1.4.4. **Grandfathered Record Documentation.** Document Grandfathered tasks/training via journal entries.

## 2. 21A Maintenance Officer Training Task List

This Block Is For Identification Purposes Only		
Name of Trainee		
Printed Name (Last, First, Middle Initial)	Initials (Written)	SSAN (Last 4 only)
Printed Name Of Supervisor (Last, First, Middle Initial) and Written Initials		
N/I	N/I	
N/I	N/I	
N/I	N/I	

### 2.1. 21A3 certification requirements

When certification requirements are completed record in TBA			
Requirements for award of 21A3:	Trainee Initials	Supervisor's Initials	Date
INITIAL COMMANDER'S ORIENTATION			
*A1.1. Attend Commander's orientation			
*A1.2. Complete maintenance complex familiarization tour			
A1.3. Discuss LEAN and CPI as it applies to unit			
A1.4. Complete MDS/program familiarization program (i.e. CAST/FAM/FTD course)			
MAINTENANCE MANAGEMENT FUNCTIONS			
A1.5. Learn use/methods of unit's secure communications (i.e. SIPR)			
A1.6. Understand units Critical Information List (CILs)			
A1.7. Understand local Personnel Reliability Program (PRP) requirements			
	Trainee Initials	Supervisor's Initials	Date
<b>A1.8. FOREIGN OBJECT DAMAGE (FOD) PREVENTION/DROPPED OBJECT PREVENTION PROGRAM (DOPP) TR: AFI 21-101, MAJCOM Supplements</b>			
*A1.8.1. Attend a FOD/DOP program meeting			
*A1.8.2. Explain FOD/DOP prevention program requirements			
A1.8.3. Assist in a FOD or DOP investigation			
A1.8.4. Participate/Lead FOD walk			
<b>A1.9. AIR FORCE OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: Applicable Aircraft specific TOs, AFI 91-203, 91-301</b>			
*A1.9.1. Perform (using applicable job guides) aircraft safe for maintenance procedures			
A1.9.2. Explain safety precautions pertaining to aircraft maintenance			
*A1.9.2.1. Explain engine danger areas			
*A1.9.2.2. Explain high intensity noise areas and precautions			

*A1.9.2.3. Explain and demonstrate/identify turbine plane of rotation danger area			
*A1.9.2.4. Explain radiation hazard areas			
A1.9.3. Describe additional hazards related to assigned Mission Design Series (MDS)			
A1.9.3.1. Identify location of cartridges, squibs and initiators on an aircraft			
A1.9.3.2. Explain safety requirements for cartridges, squibs and initiators			
<b>A1.10. MAINTENANCE OPERATIONS CENTER (MOC)</b> TR: AFI 21-101 ACCI, AMCI			
A1.10.1. Receive tour and mission briefing of MOC			
A1.10.2. Explain the purpose of crash net phones/radios			
*A1.10.3. Read all unit emergency action checklists			
A1.10.4. Train on ICC/EOC processes			
A1.10.5. Review deviation sheets			
A1.10.6. Perform board bump			
<b>A1.11. MAINTENANCE DIRECTIVES, REFERENCES, AND INSTRUCTIONS</b> TR: AFI 21-101, AFD 21-3, TOs 00-5-15, 00-20-1			
*A1.11.1. Read AFI 21-101 Lead Command Supplement			
A1.11.2. Read/explain TOs 00-5-1 and 00-20-1			
A1.11.3. Read/explain TO 00-5-15			
A1.11.4. Read/explain TO 00-25-172			
A1.11.5. Read/explain AFI 91-203			
*A1.11.6. Read/explain local maintenance OIs, applicable wing instructions and supplements			
*A1.11.7. Explain contents and information found in UMD/UMPR			
<b>A1.12. TRAINING</b> TR: AFI 36-2201, AFI 36-2101, AFM 36-2108, AFI 10-204, web site: <a href="https://etca.randolph.af.mil/">https://etca.randolph.af.mil/</a>			
A1.12.1. Attend the Air Force Training Course (AFTC)			
*A1.12.2. Review OJT records and explain contents of a typical training record			
*A1.12.3. Discuss unit training program with UTM			
*A1.12.4. Attend SOT meeting			
<b>A1.13. UNIT DEPLOYMENT MANAGEMENT</b> TR: AFI 10-403			
*A1.13.1. Explain installation deployment plan			
A1.13.2. Process through a deployment line			
*A1.13.3. Explain how to process personnel and equipment			
*A1.13.4. Explain unit MISCAP/DOC Statement and UTCs			
A1.13.5. Attend ART/SORT/DRRS meeting			
*A1.13.6 Meet with the IDO to discuss installation deployment plan execution			
<b>A1.14. PLANS AND SCHEDULING</b> TR: AFI 21-101/AFTTP 3-21, CAF 21-165			
A1.14.1. Review and explain aircraft PDM or equivalent inputs/returns requirements			
A1.14.2. Attend monthly scheduling meeting			
A1.14.2.1. Assist production of monthly schedule			
A1.14.3. Attend weekly scheduling meeting			
A1.14.3.1. Assist production of weekly schedule			

A1.14.4. Attend flying squadron/AMU scheduling meeting			
*A1.14.5. Explain the decisions points and coordination involved in processing/revising daily flying plan (AF Form 2407)			
A1.14.6. Understand the factors in determining availability of aircraft for next day's flying schedule			
A1.14.7. Explain requirements for aircraft washes			
A1.14.8. Explain ISO/Phase scheduling process			
A1.14.9. Attend Shared Resources Meeting			
A1.14.10. Explain First Look, annual plan, and long range scheduling			
<b>A1.15. OPERATIONS TR: AF 21-101</b>			
*A1.15.1. Attend a maintenance debrief session			
A1.15.2. Assist in data input/retrieval of actual debrief			
A1.15.3. Attend aircrew mission certification			
A1.15.4. Attend operations mission brief and debrief			
A1.15.5. Perform Operations complex familiarization tour			
*A1.15.6. Understand aircrew training requirements/sortie forecast			
A1.15.7. Assist ops scheduler with daily/weekly requirements			
<b>A1.16. DOCUMENTATION TR: AFI 21-101, TO 00-20-1</b>			
A1.16.1 Participate in Time Compliance Technical Order (TCTO) meeting			
A1.16.2. Assist in aircraft inventory pre/post Programmed Depot Maintenance (PDM) input documentation actions			
A1.16.3. Participate in aircraft document review			
A1.16.4. Observe exceptional release process			
<b>A1.17. MAINTENANCE MANAGEMENT ANALYSIS</b>			
A1.17.1. Receive tour and mission briefing			
*A1.17.2. Explain application of Management Information Systems (MIS)			
*A1.17.3. Review and explain fleet health and sortie production indicators			
*A1.17.4. Explain the role and importance of the data integrity program			
A1.17.5. Review monthly metric summary (i.e. 9302/2401)			
A1.17.6. Attend Health of the Fleet meeting			
<b>A1.18. QUALITY ASSURANCE FUNCTIONS</b>			
A1.18.1. Tour QA office and explain responsibilities for the deficiency reporting program			
*A1.18.2. Explain Weight and Balance Program, and required documentation			
*A1.18.3 Explain Functional Check Flight (FCF)/Operational Check Flight (OCF) Program			
A1.18.4 Accompany inspectors/evaluators as they perform the following:			
*A1.18.4.1. Observe/explain Personal Evaluation (PE), ,			
*A1.18.4.2 Observe/explain Quality Verification Indicator (QVI)			
*A1.18.4.3. Observe/explain Special Inspection (SI) evaluation processes			
A1.18.5.. Review Wing Product Improvement Program TR: AFI 21-118			
*A1.18.6. Explain one-time inspection (to include local) processes			
A1.18.7. Impoundments			
*A1.18.7.1 Explain impoundment procedures			

A1.18.7.2. Shadow SNCO/Officer throughout an impoundment procedure			
A1.18.8. Understand the role of the contract QAE			
A.1.18.9. Review Air Force Repair Enhancement Program (AFREP) processes			
* A1.18.10. Explain and review local MSEP program			
*A1.18.11. Explain special certification roster requirements and procedures			
A1.18.12. Explain local man procedures			
A.1.18.13. Understand the purpose and function of PWSs/SOWs, development and government oversight			
<b>A1.19. HAZARDOUS MATERIALS (HAZMAT)</b>			
TR: AFI 91-203			
A1.19.1. Tour HAZMAT Pharmacy and gain a general understanding of their responsibilities			
*A1.19.2. Explain responsibilities of Hazardous Material Collection Point Managers and identify discrepancies at collection points			
A1.19.3. Read Environmental, Safety, Occupational Health, Assessment and Management Program (ESOH CAMP) Inspection Reports and comprehend past discrepancies and corrective actions			
*A1.19.4. Review hazardous materials spill response procedures and identify kit locations per in local OIs QRCs			
*A1.19.5 Tour a hazardous waste satellite accumulation point			
A1.19.6 Explain labeling of HAZ waste containers/MSDS			
<b>MAINTENANCE TASKS</b>			
<b>A1.20. GROUND HANDLING AND SERVICING OF AIRCRAFT, AND EXPLOSIVE DEVICES</b> TR: AFI 11-218, 91-203, TO 00-25-172, APPLICABLE –2 TOs			
*A1.20.1. Explain emergency ground egress procedures			
*A1.20.2. Explain aircraft parking requirements			
*A1.20.3. Explain hot brake procedures			
*A1.20.4. Explain aircraft hangar input/removal procedures			
A1.20.5. Explain inclement/cold weather procedures			
A1.20.6. Observe aircraft de-icing procedures			
A1.20.7. Assist with aircraft power-on and power-off procedures			
*A1.20.8. Understand and assist in performing aircraft tow operations			
*A1.20.9. Observe aircraft jack and level			
*A1.20.10. Assist and explain an aircraft launch			
*A1.20.11. Assist in and explain an aircraft recovery			
A1.20.12. Assist in static grounding of aircraft			
A1.20.13. Assist with installation/removal of ground safety locks/pins			
A1.20.14. Assist in opening/operating cargo doors			
A1.20.15. Observe and explain servicing landing gear struts Nose Landing Gear (NLG)/Main Landing Gear (MLG)			
A1.20.16. Assist with removal/installation of landing gear wheel and tire (NLG/MLG)			
A1.20.17. Observe main landing gear brake change			
*A1.20.18. Explain serviceability of tires			
A1.20.19. Observe installation/removal of seat safety pins			
A1.20.20. Assist opening/closing engine access doors/cowlings			
*A1.20.21. Observe refuel/defuel of aircraft			
A1.20.22. Explain the use of aircraft guarded switches			
A1.20.23 Demonstrate operation of aircraft radios			
A1.20.24. Demonstrate operation of interphone system			

A1.20.25. Assist in removal/replacement of ground covers			
*A1.20.26. Observe configure/re-configure aircraft (i.e. pylons, external fuel tanks, electronic pods, seats, comfort pallets, etc.)			
A1.20.27. Identify location of cartridges, squibs, initiators on an aircraft			
A1.20.28. Explain safety requirements for cartridges, squibs, initiators			
A1.20.29. Assist in engine removal/installation			
* A1.20.30. Explain installed and/or uninstalled engine run procedures and certifications			
A1.20.31. Review and explain the requirements for reporting loaded munitions accidents, incidents and deficiencies			
<b>A1.21. MAINTENANCE AND INSPECTIONS</b>			
*A1.21.1. Explain scheduled maintenance inspection requirements IAW TO 00-20-1, applicable to assigned aircraft			
A1.21.2. Assist in an aircraft wash as a wash team member			
*A1.21.3. Assist intake and exhaust inspections			
*A1.21.4. Assist with preflight inspection			
*A1.21.5. Assist with thru flight inspection			
*A1.21.6. Assist in basic post flight inspection			
A1.21.7. Assist with Home Station Check			
A1.21.8. Explain hard landing inspection requirements			
A1.21.9. Assist in acceptance/transfer inspection			
A1.21.10. Explain Over "G" inspection			
A1.21.11. Observe End of Runway inspection			
*A1.21.12. Assist ground checkout of flight control system			
<b>A1.22. MAINTENANCE MATERIALS AND TOOLS TR: TO 1-1A-8, 1-1A-14, -32 Series, AFI 21-101</b>			
*A1.22.1. Explain Consolidated Tool Kit (CTK) Program			
A1.22.2. Explain how to adjust inventory, add/delete requirements for tools/equipment/bench stock			
A1.22.3. Identify Warranty Tool Program requirements			
*A1.22.4. Perform lost tool checklist			
<b>A1.23. FLIGHT LINE MANAGEMENT</b>			
A1.23.1. Receive orientation from AMU OIC			
*A1.23.2. Participate in an AMU production meeting			
*A1.23.3. Understand flight manning/skill level impact on production decisions			
*A1.23.4. Participate in TDY/deployment planning			
A1.23.5. Explain launch/recovery team concept			
*A1.23.6. Explain production supervisor responsibilities			
*A1.23.7. Explain expediter responsibilities			
A1.23.8. Explain Dedicated Crew Chief/Crew Chief Training Program/Flying Crew Chief Programs			
*A1.23.9. Explain red X/in-process inspection qualification requirements			
*A1.23.10. Explain how to interpret Minimum Essential Systems List (MESL)/Mission Essential List (MEL) to determine aircraft status			
<b>A1.24. FLIGHT LINE PRODUCTION</b>			
* A1.24.1. Shadow Pro Super for a day			
* A1.24.2. Observe shift turnover between Pro Supers			
* A1.24.3. Shadow Expediter for a day			
<b>A1.25. WEAPONS PRODUCTION</b>			

A1.25.1. Receive orientation from Weapons Flight Chief			
A1.25.2. Explain local munitions storage limitations			
A1.25.3. Explain weapons safe for maintenance actions			
A1.25.4. Explain hung ordnance/flare/hot gun procedures			
A1.25.5. Observe weapons/munitions upload, testing, and download			
A1.25.6. Understand how munitions are requested, delivered, and reconciled			
<b>A1.26. ARMAMENT</b>			
A1.26.1. Receive tour and mission brief			
A1.26.2. Understand bomb release system inspection/troubleshooting/testing			
A1.26.3. Understand missile system inspection/troubleshooting/testing			
A1.26.4. Understand gun system inspection/troubleshooting/testing			
<b>A1.27. WEAPONS STANDARDIZATION</b>			
A1.27.1. Understand roles and functions of Wing Weapons Manager			
A1.27.2. Understand roles and functions of Weapons Standardization Section (WSS) and Load Standardization Crews (LSC)			
<b>A1.28. MUNITIONS</b>			
A1.28.1. Compete Muns Tour (Line Delivery, Munitions Control, MSA)			
<b>A1.29. MAINTENANCE SQUADRON(S)</b>			
A1.29.1. Attend Unit Mission Brief			
A1.29.2. Attend squadron daily production meeting/maintenance supervisors overview			
*A1.29.3. Shadow Pro Super for a day			
A1.29.4 Explain squadron flight line dispatch procedures			
A1.29.5 Explain Repair Network Integration (RNI) and the responsibilities of a Repair Node Manager (NM), if established at your installation			
<b>A1.30. FABRICATION FLIGHT</b>			
A1.30.1. Complete branch tour and mission brief			
<b>A1.31. STRUCTURAL REPAIR SHOP</b>			
*A1.31.1. Complete tour			
A1.31.2. Observe composite materials repair			
A1.31.3. Observe honeycomb repairs			
A1.31.4. Observe sheet metal repair process			
A1.31.5. Observe application/repair of radar absorbing material (RAM)/low observable (LO) components			
<b>A1.32. CORROSION CONTROL SHOP</b>			
*A1.32.1. Complete tour			
A1.32.2. Observe paint operation			
A1.32.3. Explain Volatile Organic Compound (VOC)			
A1.32.4. Identify high corrosion areas particular to airframe type			
A1.32.5. Observe aircraft wash			
<b>A1.33. WELDING SHOP</b>			
*A1.33.1 Complete tour			
A1.33.2. Explain Welding Certification Program			
TR: AFI 21-105			

A1.33.3. Explain required eye/personnel protection TR: AFI 91-203			
A1.33.4. Observe welding operations			
<b>A1.34. MACHINE SHOP</b>			
*A1.34.1 Complete tour			
A1.34.2. Observe machinery operations			
A1.34.3. Observe in-shop flow of repairables			
<b>A1.35. NON-DESTRUCTIVE INSPECTION SHOP</b>			
*A1.35.1 Complete tour			
*A1.35.2. Explain/observe basic inspection methods used			
A1.35.3. Observe an in-shop Nondestructive Inspection (NDI)			
A1.35.4. Explain Oil Analysis Program (OAP)/observe oil lab operation TR: AFI 91-203			
A1.35.5. Review documentation of yearly physicals			
A1.35.6. Review documentation of film badge control			
<b>A1.36. ACCESSORIES FLIGHT</b>			
A1.36.1. Receive tour and mission brief			
<b>A1.37. ELECTRICAL-ENVIRONMENTAL SHOP</b>			
A1.37.1. Receive tour and mission brief			
<b>A1.38. HYDRAULIC /PNEUDRAULIC SHOP</b>			
A1.38.1. Receive tour and mission brief			
A1.38.2. Observe shop repairables flow/documentation			
<b>A1.39. FUEL SYSTEMS SHOP</b>			
A1.39.1. Observe fuel cell work in-progress			
*A1.39.2. Explain fuel tank entry program (As applicable to MDS assigned)			
*A1.39.3. Explain confined space program (As applicable to MDS assigned)			
A1.39.4. Observe tank pressurization testing/certification			
A1.39.5. Observe/tour external tank storage facility			
*A1.39.6. Explain different fuel leaks classification			
A1.39.7. Explain operation of fuel cell fire suppression system			
<b>A1.40. EGRESS SHOP</b>			
A1.40.1. Receive tour and mission brief			
A1.40.2. Understand local egress system			
A1.40.3. Understand egress certification process			
<b>A1.41. AVIONICS FLIGHT</b>			
A1.41.1. Receive tour and mission brief			
A1.41.2. Understand Avionics repair cycle process			
<b>A1.42. PROPULSION (ENGINE) SHOP</b>			
A1.42.1. Observe engine induction and disassembly/assembly			
*A1.42.2. Observe operational updates to automated engine management systems			
A1.42.3. Observe propeller mate/de-mate			
A1.42.4. Observe AFTO Form 95 "Significant Historical Data" inputs (manual/electronic)			

<b>A1.43. AEROSPACE GROUND EQUIPMENT(AGE) TR: AFI 91-203</b>			
A1.43.1. Tour AGE Shop			
*A1.43.2. Understand pre-use inspection/documentation for common powered and non-powered AGE			
A1.43.3. Identify purpose/nomenclature of maintenance stands and understand pre-use inspection/documentation requirements TR: AFI 91-203, TO 35A4 Series			
A1.43.4. Explain safety considerations for gaseous oxygen (GOX), liquid oxygen (LOX), and Nitrogen cart storage areas TR: TOs 15X-1-1, 37C2-8			
A1.43.5. Understand pre-use inspection/documentation for ground heaters and blowers			
A1.43.6. Understand pre-use inspection/documentation for generator sets TR: TO 35C2 Series			
A1.43.7. Understand pre-use inspection/documentation for lighting equipment TR: TO 35F5 Series			
A1.43.8. Observe an hydraulic test stand operation and know pre-use inspection/documentation requirements TR: TO 33A2 Series			
A1.43.9. Understand pre-use inspection/documentation for air conditioning units TR: TO 35E9 Series			
A1.43.10. Understand pre-use inspection/documentation for gas turbine compressors TR: TO 35D12 Series (-60, -95)			
A1.43.2.11. Understand pre-use inspection/documentation for AGE tow vehicles/tow bars TR: TO 36A10 Series			
<b>A1.44. MAINTENANCE FLIGHT</b>			
*A1.44.1. Complete tour			
<b>A1.45. AIRCRAFT INSPECTION SECTION</b>			
*A1.45.1. Complete tour			
A1.45.2. Participate in the applicable isochronal (ISO)/phase/periodic inspections			
A1.45.3. Attend pre/post-dock meeting			
<b>A1.46. REPAIR AND RECLAMATION SECTION</b>			
*A1.46.1. Complete tour			
A1.46.2. Observe flight control rigging on primary assigned aircraft			
A1.46.3. Observe CDDAR responsibilities if assigned			
A1.46.3.1. Identify purpose of Crash Recovery Equipment			
A1.46.3.2. Assist in crash trailer periodic/calendar inspection			
A1.46.3.3. Observe annual CDDAR exercise			
A1.46.4. Observe refurbishment section responsibilities if established			
<b>A1.47. WHEEL AND TIRE SECTION</b>			
*A1.47.1. Complete Tour			
A1.47.2. Observe the build-up and repair of wheel and tire components			
<b>A1.48. TRANSIENT AIRCRAFT MAINTENANCE SECTION</b>			
A1.48.1. Understand host wing responsibilities			
A1.48.2 Understand unit equipment responsibilities (deicing, emergency towing, GSE)			

<b>A1.49. RESPONSIBILITY FOR SUPPLY</b>			
TR: AFM 23-110 v2 Pt 13, AFI 21-101			
A1.49.1. Tour the supply activity			
*A1.49.2. Understand Mission Capable (MICAP) verification procedures			
*A1.49.3. Review equipment accountability procedures			
*A1.49.4. Understand local parts manufacturing policies and procedures			
*A1.49.5. Understand bench stock monitoring processes			
*A1.49.6. Understand tail number/FOM bin procedures			
*A1.49.7 Understand local CANN procedures			
A1.49.8. Observe daily and monthly supply products			
*A1.49.9. Observe Due-In-From-Maintenance procedures (DIFM) listing			
<b>A1.50. LOGISTICS READINESS SQUADRON</b>			
A1.50.1 Receive tour and mission brief			
A1.51 Logistics Readiness Function			
TR: AFI 10-403			
*A1.51.1. Explain installation deployment plan			
A1.51.2. Process through a deployment line			
*A1.51.3. Explain how to process personnel and equipment			
*A1.51.4 Meet with the IDO to discuss installation deployment plan execution			
A1.51.5. Supply Function			
*A1.51.5.1 Meet with MSL			
A1.51.6. POL/Fuels Management Overview			
*A1.51.6.1. Tour fuels control center to include fuels testing			
*A1.51.7. Explain MRSP fill and deployment procedures			
A1.51.8. Transportation Function			
A1.51.8.1. Tour vehicle maintenance and dispatch facility			
A1.51.9. Understand Vehicle Control Program			

Note: \* Identifies core task requirements

**Senior certification requirements.**

<b>When certification requirements are completed record in TBA</b>			
<b>1.52. Complete 4 of the following courses: (1 minimum for ARC)</b>	<b>Trainee Initials</b>	<b>Supervisor Initials</b>	<b>Date</b>
1.52.1. 785CAP, <a href="#">AFCOMAC Air Force Combat Ammunition Planning and Production Course</a>			
1.52.2. AFIT LOG 131, <a href="#">Industrial Maint Management</a>			
1.52.3. AFIT LOG 132 <a href="#">Production Maintenance Management (PMS Internship)</a>			
1.52.4. AFIT LOG 199, <a href="#">Introduction to Logistics</a>			
1.52.5. AFIT LOG 262, <a href="#">Applied Maint Management Concepts</a>			
1.52.6. AFIT LOG 299, <a href="#">Combat Logistics</a>			
1.52.7. AFIT REQ 111 <a href="#">Air Force Capabilities Based Operational Requirements Course</a>			
1.52.8. AFIT SYS 172 <a href="#">Modification Management Process</a>			
1.52.9. AMIC <a href="#">Aircraft Mishap Investigation Course</a>			
1.52.10. <a href="#">CWPC Contingency Wartime Planners Course</a>			
1.52.11. DAU ACQ 101, <a href="#">Fundamentals of Systems Acquisition Management</a>			
1.52.12. DAU ACQ 201 <a href="#">Intermediate Systems Acquisition, Part A</a>			

1.52.13. DAU ACQ 201 <a href="#">Intermediate Systems Acquisition, Part B</a>			
1.52.14. DAU CLE004 <a href="#">Intro to LEAN Enterprise Concepts</a>			
1.52.15. DAU CLE007 <a href="#">LEAN 6 Sigma</a> (or other Lean course of 8 hrs)			
1.52.16. DAU LOG 101, <a href="#">Acquisition Logistics Fundamentals</a>			
1.52.17. DAU LOG 102 <a href="#">Systems Sustainment Management Fundamentals</a>			
1.52.18. DAU PMT 251 <a href="#">Program Management Tools</a> , part 1			
1.52..19. DAU PQM 101 <a href="#">Production, Quality and Manufacturing Fundamentals</a>			
1.52.20. DAU PQM 201A <a href="#">Intermediate Production, Quality and Manufacturing, Part A</a>			
1.52.21. DAU PQM 201B <a href="#">Intermediate Production, Quality and Manufacturing, Part B</a>			
1.52.22. DAU TST 102 <a href="#">Fundamental of Test and Evaluation</a>			
1.52.23. DNWS NWOC <a href="#">Nuclear Weapons Orientation Course</a>			
1.52.24. DNWS TNOC <a href="#">Theater Nuclear Operations Course</a>			
1.52.25. SFC <a href="#">Space Fundamentals Course</a>			
1.52.26. SMIFTU <a href="#">Space and Missiles Intelligence Formal Training Unit</a>			
1.52.27. JEMIC <a href="#">Jet Engine Mishap Investigation Course</a>			
1.52.28. N3-11 <a href="#">NATO Nuclear Surety Management Course</a>			
<b>1.53. Complete MOIC or AMMOS</b>			
<b>1.54. Has held any 2 of the following duty positions</b>			
1.54.1. AMOC/AAMOC Instructor			
1.54.2. Operations Officer			
1.54.3. Flight/Det Commander			
1.54.4. AMU OIC			
1.54.5. QA OIC			
1.54.6. ALC/CRF Maintenance			
1.54.7. NAF, MAJCOM, or Air Staff			
1.54.8. Executive Officer (Maintenance Organizations Only)			
<b>1.55. Successfully complete 7 years in the specialty</b>			

**Master certification requirements**

<b>When certification requirements are completed record in TBA</b>			
<b>1.56. Has held any 2 of the following duty positions post Senior Certification (One for ARC)</b>	<b>Trainee Initials</b>	<b>Supervisor Initials</b>	<b>Date</b>
1.56.1. MOIC/AMMOS Instructor			
1.56.2. Command			
1.56.3. NAF, MAJCOM, DRU, FOA or Air Staff			
1.56.4. ALC Level Maintenance			
1.56.5. Acquisition Duty			
1.56.6. Joint Logistics Duty			
1.56.7. Deputy Maintenance Group Commander			
1.56.8. Other Logistics AFSC (21M, 21R)			
1.56.9. Operations Officer			
<b>1.57. Successful completion of 15 years in the specialty</b>			

## PART II

### Section D - MAJCOM UNIQUE REQUIREMENTS.

1. **Suggested 797 Workcenter Tasks:** The attached AF Form 797 suggested workcenter tasks are listed below:

<b>SUGGESTED AF FORM 797 WORKCENTER TASKS</b>
<b>INITIAL COMMANDER'S ORIENTATION</b>
<b>A4.1. Discuss LEAN and CPI as it applies to unit</b>
<b>A4.2. Complete MDS/program familiarization (i.e. CAST/FAM/FTD course)</b>
<b>MAINTENANCE MANAGEMENT FUNCTIONS</b>
<b>A4.3. AIR FORCE OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM</b>
TR: Aircraft specific TOs, AFI 91-203, 91-301
A4.3.1. Identify location of cartridges, squibs, initiators on an aircraft
A4.3.2. Explain engine danger areas
A4.3.3. Explain and demonstrate/identify turbine plane of rotation danger area
<b>A4.4. MAINTENANCE OPERATIONS CENTER (MOC)</b>
TR: AFI 21-101 ACCI, AMCI
A4.4.1. Explain the purpose of crash net phones/radios
A4.4.2. Train on ICC/EOC processes
A4.4.3. Review deviation sheets
<b>A4.5. MAINTENANCE DIRECTIVES, REFERENCES, AND INSTRUCTIONS</b> TR: AFI 21-101, AFPD 21-3, TOs 00-5-15, 00-20-1
A4.5.1. Read/explain TOs 00-5-1 and 00-20-1
A4.5.2. Read/explain TO 00-5-15
A4.5.3. Read/explain TO 00-25-172
A4.5.4. Read/explain AFI 91-203
<b>A4.6. TRAINING</b> TR: AFI 36-2201, AFI 36-2101, AFM 36-2108, AFI 10-204, web site: <a href="https://etca.randolph.af.mil/">https://etca.randolph.af.mil/</a>
A4.6.1. Attend the Air Force Training Course (AFTC)
A4.6.2. Attend SOT meeting
<b>A4.7. UNIT DEPLOYMENT MANAGEMENT</b> TR: AFI 10-403
A4.7.1. Process through a deployment line
A4.7.2. Explain how to process personnel and equipment
A4.7.3. Attend ART/SORT/DRRS meeting
<b>A4.8. PLANS AND SCHEDULING</b> TR: AFI 21-101 /AFTTP 3-21, (CAF 21-165)
A4.8.1. Review and explain aircraft PDM or equivalent inputs/returns requirements
A4.8.2. Attend monthly scheduling meeting
A4.8.3. Assist production of monthly schedule
A4.8.4. Attend weekly scheduling meeting
A4.8.5. Assist production of weekly schedule
A4.8.6. Attend flying squadron/AMU scheduling meeting
A4.8.7. Understand the factors in determining availability of aircraft for next day's flying schedule
<b>SUGGESTED AF FORM 797 WORKCENTER TASKS</b>

A4.8.8. Explain requirements for aircraft washes
A4.8.9. Explain ISO/Phase scheduling process
A4.8.10. Attend Shared Resources Meeting
<b>A4.9. OPERATIONS TR: AF 21-101</b>
A4.9.1. Assist in data input/retrieval of actual debrief
A4.9.2. Attend aircrew mission certification
A4.9.3. Attend operations mission brief and debrief
A4.9.4. Assist ops scheduler with daily/weekly requirements
<b>A4.10. DOCUMENTATION TR: AFI 21-101, TO 00-20-1</b>
A4.10.1. Assist in aircraft inventory pre/post Programmed Depot Maintenance (PDM) input documentation actions
A4.10.2. Explain serial number tracking requirements
<b>A4.11. MAINTENANCE DATA SYSTEMS ANALYSIS</b>
A4.11.1. Review monthly metric summary (i.e. 9302/2401)
A4.11.2. Attend Health of the Fleet meeting
<b>A4.12. QUALITY ASSURANCE FUNCTIONS</b>
A4.12.1. Explain Weight and Balance Program, and required documentation
A4.12.2. Review Wing Product Improvement Program TR: AFI 21-118
A4.12.3. Shadow SNCO/Officer throughout an impoundment procedure
A4.12.4. Understand the role of the contract QAE
A1.12.5. Review Air Force Repair Enhancement Program (AFREP) processes
A4.12.6. Explain local man procedures
A1.12.7. Understand the purpose and function of PWSs/SOWs, development and government oversight
<b>A4.13. HAZARDOUS MATERIALS (HAZMAT)</b>
TR: AFI 91-203
A4.13.1. Tour HAZMAT Pharmacy and gain a general understanding of their responsibilities
A4.13.2. Read Environmental, Safety, Occupational Health, Assessment and Management Program (ESOH CAMP) Inspection Reports and comprehend past discrepancies and corrective actions
A4.13.3. Explain labeling of HAZ waste containers/MSDS
<b>A4.14. GROUND HANDLING AND SERVICING OF AIRCRAFT, AND EXPLOSIVE DEVICES</b>
TR: AFI 11- 218, TO 00-25-172, APPLICABLE –2 TOs, AFI 91-203
A4.14.1. Observe aircraft de-icing procedures
A4.14.2. Assist with aircraft power-on and power-off procedures
A4.14.3. Explain aircraft parking requirements
A4.14.4. Explain hot brake procedures
A4.14.5. Explain aircraft hangar input/removal
A4.14.6. Explain inclement/cold/hot weather procedures
A4.14.7. Understand and assist in performing aircraft tow operations
A4.14.8. Observe and observe aircraft jack and level
A4.14.9. Observe an aircraft launch
A4.14.10. Observe an aircraft recovery
A4.14.11. Observe static grounding of aircraft
A4.14.12. Observe/explain servicing landing gear struts Nose Landing Gear (NLG)/Main Landing Gear (MLG)
<b>SUGGESTED AF FORM 797 WORKCENTER TASKS</b>
A4.14.13. Observe with removal/installation of landing gear wheel and tire (NLG/MLG)
A4.14.14. Observe main landing gear brake change
A4.14.15. Explain serviceability of tires
A4.14.16. Observe refuel/defuel of aircraft

A4.14.17. Explain the use of aircraft guarded switches
A4.14.18. Observe configure/re-configure aircraft (i.e. pylons, external fuel tanks, electronic pods, seats, comfort pallets, etc.)
A4.14.19. Identify location of cartridges, squibs, initiators on an aircraft
A4.14.20. Explain safety requirements for cartridges, squibs, initiators
A4.14.21. Explain installed and/or uninstalled engine run Procedures and certifications
A4.14.22. Review and explain the requirements for reporting load munitions accidents, incidents and deficiencies
A4.14.23. Observe in opening/operating cargo doors
A4.14.24. Observe installation/removal of seat safety pins
A4.14.25. Observe opening/closing engine access doors/cowlings
A4.14.26. Demonstrate operation of aircraft radios
A4.14.27. Demonstrate operation of interphone system
A4.14.28. Assist in removal/replacement of ground covers
A4.14.29. Assist in engine removal/installation
<b>A4.15. MAINTENANCE AND INSPECTIONS</b>
A4.15.1. Observe in an aircraft wash as a wash team member
A4.15.2. Observe intake and exhaust inspections
A4.15.3. Observe preflight inspection
A4.15.4. Observe thru flight inspection
A4.15.5. Observe basic post flight inspection
A4.15.6. Observe ground checkout of flight control system
A4.15.7. Assist with Home Station Check
A4.15.8. Explain hard landing inspection requirements
A4.15.9. Assist in acceptance/transfer inspection
A4.15.10. Explain Over "G" inspection
A4.15.11. Observe End of Runway inspection
<b>A4.16. MAINTENANCE GROUP SQUADRONS</b>
A4.16.1. Attend squadron daily production meeting/maintenance supervisors overview
A4.16.2. Shadow Squadron Pro Super
A4.16.3. Explain squadron flight line dispatch procedures
A4.16.4. Learn use/methods of unit's secure communications (i.e. SIPR/STE)
A4.16.5. Understand units Critical Information List (CILs)
<b>A4.17. SUPPORT SECTION TR: TO 1-1A-8, 1-1A-14, -32 Series, AFI 21-101</b>
A4.17.1. Explain how to adjust inventory, add/delete requirements for tools/equipment/bench stock
A4.17.2. Identify Warranty Tool Program requirements
A4.17.3. Observe shift change issue/turn-in procedures
A4.17.4. Observe periodic inspection to include documentation, serviceability, and world-wide identifier etching
A4.17.5. Explain list of hazardous materials items/authorized quantities in lockers
A4.17.6. Explain rag control program
<b>A4.18. FLIGHT LINE MANAGEMENT</b>
A4.18.1. Participate in an AMU production meeting
A4.18.2. Participate in TDY/deployment planning
A4.18.3. Explain production supervisor responsibilities
A4.18.4. Explain expediter responsibilities
<b>SUGGESTED AF FORM 797 WORKCENTER TASKS</b>
A4.18.5. Explain Dedicated Crew Chief/Crew Chief Training Program/Flying Crew Chief Programs
A4.18.6. Explain red X/in-process inspection qualification requirements
A4.18.7. Explain launch/recovery team concept
A4.18.8. Observe shift turnover between Pro Supers

A4.18.9. Shadow Expediter and explain duties
A4.18.10. Receive orientation from Weapons Flight Chief
A4.18.11. Explain local munitions storage limitations
A4.18.12. Explain weapons safe for maintenance actions
A4.18.13. Explain hung ordnance/flare/hot gun procedures
A4.18.14. Observe weapons/munitions upload, testing, and download
A4.18.15. Understand how munitions are requested, delivered, and reconciled
<b>A4.19. FLIGHT LINE PRODUCTION</b>
<b>A4.20. ARMAMENT</b>
A4.20.1. Receive tour and mission brief
A4.20.2. Understand bomb release system inspection/troubleshooting/testing
A4.20.3. Understand missile system inspection/troubleshooting/testing
<b>A4.21. WEAPONS STANDARDIZATION</b>
A4.21.1. Understand roles and functions of Wing Weapons Manager
A4.21.2. Understand roles and functions of Weapons Standardization Section (WSS) and Load Standardization Crews (LSC)
<b>A4.22. MUNITIONS</b>
A4.22.1. Understand roles and functions of Line Delivery
A4.22.2. Understand roles and functions of Munitions Control
A4.22.3. Understand roles and functions of Munitions
A4.22.4. Understand nuclear WRM concepts
A4.22.5. Understand local Personnel Reliability Program (PRP) requirements
<b>A4.23. FABRICATION FLIGHT</b>
A4.23.1. Observe composite materials repair
A4.23.2. Observe honeycomb repairs
A4.23.3. Observe sheet metal repair process
A4.23.4. Review MSDSs/HAZMAT Procedures
A4.23.5. Observe application/repair of radar absorbing material (RAM)/low observable (LO) components
A4.23.6. Observe paint operation
A4.23.7. Explain Volatile Organic Compound (VOC)
A4.23.8. Identify high corrosion areas particular to airframe type
A4.23.9. Explain Welding Certification Program TR: AFI 21-105
A4.23.10. Explain required eye/personnel protection TR: AFI 91-203
A4.23.11. Observe welding operations
A4.23.12. Observe machinery operations
A4.23.13. Observe documentation of work accomplished
A4.23.14. Observe in-shop flow of repairable
A4.23.15. Observe an in-shop Nondestructive Inspection (NDI)
A4.23.16. Explain Oil Analysis Program (OAP)/observe oil lab operation TR: AFI 91-203
A4.23.17. Review documentation of yearly physicals
A4.23.18. Review documentation of film badge control
<b>A4.24. ACCESSORIES FLIGHT</b>
A4.24.1. Understand Electrical-Environmental Shop battery charging capabilities
<b>SUGGESTED AF FORM 797 WORKCENTER TASKS</b>
A4.24.2. Observe Hydraulic/Pneudraulic Shop bench check a hydraulic line
A4.24.3. Observe Hydraulic shop repairable flow/documentation
A4.24.4. Observe fuel cell work in-progress
A4.24.5. Observe tank pressurization testing/certification

A4.24.6. Observe/tour external tank storage facility
A4.24.7. Explain different fuel leaks classification
A4.24.8. Explain operation of fuel cell fire suppression system
A4.24.9. Understand local egress system
A4.24.10. Understand egress certification process
<b>A4.25. AVIONICS FLIGHT</b>
A4.25.1. Understand Avionics repair cycle process
<b>A4.26. PROPULSION (ENGINE) SHOP</b>
A4.26.2. Observe engine induction and disassembly/assembly
A4.26.3. Observe operational up-dates to automated engine management systems
A4.26.4. Assist with quarterly engine account reconciliation
A4.26.5. Observe propeller mate/de-mate
A4.26.6. Observe AFTO Form 95 “Significant Historical Data” inputs, (manual/electronic)
<b>A4.27. AEROSPACE GROUND EQUIPMENT (AGE) TR: AFI 91-203</b>
A4.27.1. Identify purpose and nomenclature of maintenance stands TR: AFI 91-203, TO 35A4 Series
A4.27.2. Explain safety considerations for gaseous oxygen (GOX), liquid oxygen (LOX), and Nitrogen cart storage areas
A4.27.3. Ground heaters and blowers
A4.27.4. Generator Sets TR: TO 35C2 Series
A4.27.5. Identify Lighting Equipment TR: TO 35F5 Series A4.37.5.1.
A4.27.6. Observe Hydraulic Test Stands operation
A4.27.7. Identify purpose and nomenclature of Air Conditioning Units TR: TO 35E9 Series
A4.27.8. Identify Gas Turbine Compressors TR: TO 35D12 Series (-60, -95)
A4.27.9. Identify AGE Tow Vehicles/Tow bars TR: TO 36A40 Series
<b>A4.28. MAINTENANCE FLIGHT</b>
A4.28.1. Participate in the applicable isochronal(ISO)/phase/periodic inspections
A4.28.2. Attend pre/post-dock meeting
A4.28.3. Observe flight control rigging on primary assigned aircraft
A4.28.4. Understand Crash Recovery Equipment requirements
A4.28.5. Assist in crash trailer periodic/calendar inspection
A4.28.6. Observe refurbishment section responsibilities if established
A4.28.7. Observe the build-up and repair of wheel and tire components
<b>A4.29. TMDE FLIGHT</b>
<b>A4.30. TRANSIENT AIRCRAFT MAINTENANCE SECTION</b>
A4.30.1 Understand unit equipment responsibilities (deicing, emergency towing, GSE)
<b>A4.31. MAINTENANCE SUPPLY SUPPORT TR: AFM 23-110 v2 Pt 13, AFI 21-101</b>
A4.31.1. Explain maintenance supply concept
A4.31.2. Understand management of Cannibalization (CANN)
A4.31.3. Prepare supply difficulty letters
A4.31.4. Observe daily and monthly supply products
A4.31.5. Explain the base repair cycle process
<b>SUGGESTED AF FORM 797 WORKCENTER TASKS</b>
<b>A4.32. LOGISTICS READINESS SQUADRON</b>
A4.32.1. Meet with the IDO to discuss installation deployment plan execution
A4.32.2. Understand roles of the MSL
A4.32.3. Tour fuels control center to include fuels testing
A4.32.4. Personally process through a deployment line

A4.32.5. Attend ART/SORT meeting
A4.32.6. Transportation Function
A4.32.7. Tour vehicle maintenance and dispatch facility
A4.32.8. Understand Vehicle Control Program

**BY ORDER OF THE SECRETARY OF THE AIR FORCE**

**OFFICIAL**

JUDITH A. FEDDER  
Lieutenant General, USAF  
DCS/Installations, Logistics and Mission Support

4 Attachments:

1. Proficiency Code Key
2. STS – Aircraft Maintenance Officer Course (AMOC)
3. STS – Accelerated Aircraft Maintenance Officer Course (AAMOC)
4. STS – Maintenance Officer Intermediate Course (MOIC)

Attachment 1

**Resident Course Training Standards (CTS) QUALITATIVE REQUIREMENTS**

PROFICIENCY CODE KEY		
	Scale Value	Definition: The individual
Task Performance Levels	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (Extremely Limited)
	2	Can do most parts of the task. Needs only help on hardest parts. (Partially Proficient)
	3	Can do all parts of the task. Needs only a spot check of completed work. (Competent)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (Highly Proficient)
*Task Knowledge Levels	a	Can name parts, tools, and simple facts about the task. (Nomenclature)
	b	Can determine step by step procedures for doing the task. (Procedures)
	c	Can identify why and when the task must be done and why each step is needed. (Operating Principles)
	d	Can predict, isolate, and resolve problems about the task. (Advanced Theory)
**Subject Knowledge Levels	A	Can identify basic facts and terms about the subject. (Facts)
	B	Can identify relationship of basic facts and state general principles about the subject. (Principles)
	C	Can analyze facts and principles and draw conclusions about the subject. (Analysis)
	D	Can evaluate conditions and make proper decisions about the subject. (Evaluation)
<p>Explanations</p> <p>* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Example: b and 1b)</p> <p>** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.</p> <p>- This mark is used alone instead of a scale value to show that no proficiency training is provided in the course or CDC.</p> <p>X This mark is used alone in course columns to show that training required but not given due to limitations in resources.</p> <p><i>NOTE:</i> All tasks and knowledge items shown with a proficiency code are trained during war time.</p>		

Attachment 2

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

**Task, Knowledge, and Proficiency Level**

<b>1. SUPPORT EQUIPMENT TR: AFI 21-101, TO 00-25-172, AFI 91-203, TO 32-1-101, AFTTP 3-3</b>	-
1.1. Types and uses of common non-powered support equipment * (Observe condition & safe operation of non-powered Aerospace Ground Equipment AGE)	B
1.2. Types and uses of common powered support equipment * (Observe conditions & safe operation of common powered AGE)	B
1.3. Types and uses of common ground-handling equipment	B
1.4. Types and uses of common tools * (Observe CTK inspection)	A
1.5. Types and uses of test equipment	B
1.6. Tool and support equipment management requirements found in AFI21-101, Tool and Equipment Management)	B
<b>2. AIRFRAME TR: AFI 91-203, AFI 21123, AFI 21-124, AFI 63-1001, AFI 21-101, TO 33B1-1, TO 27GS-00-1, TO 27FI-00-1, AFTTP 3-3</b>	-
2.1. Basic principles of aerodynamics * (Observe flight control operation)	A
2.2. Aircraft structural components and their functions	A
2.3. Aircraft structural materials	A
2.4. Aircraft structural inspection	B
2.5. Methods and procedures for flight control maintenance	B
2.6. Low Observable	-
2.6.1. Theory	A
2.6.2. Maintenance management	A
<b>3. AIRCRAFT ACCESSORIES TR: AFI 21-101, TO 29GS-00-1, TO 13GA-1, TO 1-1-3, TO 00-25-172, TO 00-25-223, AFTTP 3-3</b>	-
3.1. Operating principles of hydraulic systems * (Observe selected hydraulic system maintenance actions, focusing on safety)	B
3.1.1. Hydraulic system components	A
3.2. Types and characteristics of various aircraft fuels	A
3.3. Components and operating principles of fuel systems * (Observe selected fuel system maintenance actions)	B
3.4. Components and operating principles of aircraft air conditioning systems	B
3.5. Operating principles of aircraft oxygen systems *(Observe LOX servicing)	B
3.6. Components and operating principles of aircraft pressurization systems	B
3.7. Components and operating principles of aircraft ice prevention systems	B

3.8. Components and operating principles of electrical systems * (Observe selected electrical system maintenance actions)	B
3.9. Components and operating principles of aircraft fire indication and extinguishing systems	B
3.10. Components and operating principles of aircraft egress systems	B
<b>4. AVIONICS TR: TO -1, TO 31-GS, TO 51-GS, TO 94FI, TO 94GS, TO 27FI, TO 27GS, AFTTP 3-3</b>	-
4.1. Components and operating principles of aircraft communication, navigation, and network systems	B
4.2. Components and operating principles of aircraft instruments	B
4.3. Components and operating principles of airborne radar systems	B
4.4. Components and operating principles of aircraft automatic flight control systems	B
4.5. Components and operating principles of weapon control/bomb navigation systems	B
4.6. Components and operating principles of sensor systems	B
4.7. Components and operating principles of electronic warfare systems	B
<b>5. PROPULSION SYSTEMS TR: TO 2-1-18, TO 2-1-111, TO 2-9-1, AFTTP 3-3</b>	-
5.1. Various components of gas turbine engine operation * (Observe selected engine system maintenance actions)	A
5.2. Operating principles of gas turbine engine systems and sections	B
<b>6. MUNITIONS ORIENTATION TR: WEAPONS FILE, AFTTP 3-3</b>	-
6.1. Conventional munitions and components	A
6.2. Guided munitions and components	A
6.3. Munitions security requirements	B
<b>7. MUNITIONS FLIGHT ORGANIZATION TR: AFI 21-101, AFI 21-200, AFTTP 3-3</b>	-
7.1. Roles and responsibilities within a Munitions Flight	B
<b>8. PHYSICAL SECURITY/RESOURCE PROTECTION TR: AFI 31-101, AFI 91-202, AFI 91-204, AFTTP 3-3</b>	-
8.1. Requirement for resource protection	A
<b>9. EXPLOSIVE SAFETY TR: AFI 21-101, AFI 21-201, AFMAN 91-201, TO 11A-1-33, TO 11A-1-46, AFPAM 90-902, AFTTP 3-3</b>	-
9.1. Aircraft and munitions explosive safety requirements	B
9.2. Electrical hazards protection requirements for explosives	B
9.3. Firefighting symbols and procedures	B
9.4. Requirements for transportation of munitions	A
<b>10. MUNITIONS BUILD-UP TR: AFI 21-201, AFTTP 3-3</b>	-
10.1. Daily fragmentary order and how its change affects aircraft generation requirements	A
10.2. Munitions build-up operations	A
<b>11. ARMAMENT TR: AFI 21-101, WEAPONS FILE, AFTTP 3-3</b>	-
11.1. Operating principles of aircraft armament systems	B

11.1.1. Aircraft gun system components	A
11.1.2. Aircraft weapons release system components * (Observe selected weapons system maintenance actions)	A
11.2. Weapons standardization program	B
<b>12. AIR FORCE PUBLICATIONS SYSTEMS TR: AFI 21-101, AFI 33-360, AFTTP 3-3</b>	-
12.1. Various levels and formats of Air Force publications and supplements	B
12.2. Use and application of technical orders	B
12.3. Different series of AF publications	A
12.4. Electronic Technical Orders	A
<b>13. MAINTENANCE FORMS TR: AFI 21-101, TO 00-20-1, AFTTP 3-3</b>	-
13.1. Procedures and authorities for the accomplishment of exceptional release, maintenance downgrades, one-time flight authorization, and impoundments	2b
<b>14. MAINTENANCE ORGANIZATION / FUNCTIONS TR: AFI 21-101, AFI 21-102, AFI 38-201, Titles 10&amp;32 AFI 90-1001, U.S. Code, AFTTP 3-3</b>	-
14.1. Working interface between logistics and operations production managers	B
14.2. Base-level maintenance organization	B
14.2.1. Contracted logistic support functions	A
14.3. Functional responsibilities of maintenance staff agencies	B
14.4. Functional responsibilities of maintenance shops and sections * (Observe landing gear & cargo door operation)	B
14.5. Functional responsibilities of maintenance managers	B
14.6. Maintenance responsibilities of and interaction with the Air Logistics Complex	A
14.7. Components of the total force (including Air Reserve Technician (ART), Air National Guard (ANG) technician, Air Reserve Component (ARC) organizational structure, unit equipment and Associate Units)	B
<b>15. PERSONNEL TR: AFDD-1, AFI 21-111, AFI 36-1, AFI 36-2108, AFI 36-2201, AFI 36-2611, AFI 36-2232, AFI 38-201, AFI 38-204, AFTTP 3-3</b>	-
15.1. Maintenance officer career path and training requirements	A
15.2. Maintenance officer role in enlisted professional development (including recognition, counseling, Professional Military Education (PME), career progression, etc.)	B
15.3. Enlisted training program	B
15.4. Facts about the civilian personnel system	A
15.5. Facts related to Unit Manpower Requirements	A
<b>16. FINANCIAL RESOURCE MANAGEMENT TR: AFI 64-117, AFI 65-601, AFTTP 3-3</b>	-
16.1. Base level elements of the financial resource management system/resource management programs	A
<b>17. PROGRAMS TR: AFI 21-101, AFMAN 32-1094, TO 00-5-1, TO 1-1-300, TO 35-1-3, TO 1-1-691, TO 00-5-15, TO 00-25-254-1, TO 00-25-254-2, AFTTP 3-3, AFI 91-203, AFI21-124, TO 1-1-689-1</b>	-

17.1. Quality assurance programs	B
17.2. Aircraft modification program	A
17.3. Time Compliance Technical Order (TCTO) process	A
17.4. Automated engine management system	A
17.5. Reliability and maintainability programs	A
17.6. Preventive maintenance programs * (Observe selected aircraft inspections)	B
17.7. Corrosion control program	B
17.8. User responsibilities for maintenance of Test, Measurement, and Diagnostic equipment (TMDE)	A
17.9. Foreign Object Damage (FOD) and Dropped Object Prevention (DOP) Program	B
17.10. Crash Damaged or Disabled Aircraft Recovery (CDDAR) Program	A
<b>18. AIR FORCE OCCUPATIONAL SAFETY AND MISHAP PREVENTION TR: AFI 91-202, AFI 91-203, AFD 90-9, AFI 21-101, AFTTP 3-3</b>	-
18.1. Principles of Air Force Occupational Safety and Health (AFOSH) and mishap prevention	B
18.2. Safety programs and associated documentation	B
18.3. Unsafe situations which may be encountered in the maintenance environment * (Identify danger areas in and around aircraft)	A
18.4. Principles and implementation of Risk Management (RM)	B
<b>19. ENVIRONMENTAL PROTECTION TR: AFI 90-801, AFI 32-7042, AFI 90-803, AFI 90-821, AFTTP 3-3</b>	-
19.1. Cradle-to-grave management concepts of hazardous materials	B
19.1.1. Application of Environmental Protection Agency (EPA) laws to include examples of the impact of state regulations to aircraft maintenance	A
19.1.2. Examples of hazardous waste minimization techniques	A
19.1.2.1. Proper techniques for issue, use, return, disposal and recycling of hazardous materials	A
19.1.3. Hazardous Communication (HAZCOM)	A
<b>20. NUCLEAR OPERATIONS TR: AFI 21-204, AFI 21-205, AFI 90-201, AFI 91-101, AFI 91-103, AFI 91-104, AFI 91-111 THRU 91-117, AFJI 11-204, AFMAN 10-3902, CJCSI3263.05, TP 45-51, WEAPONS FILE, AFTTP 3-3</b>	-
20.1. Fundamentals of the Nuclear Surety Program (TP 25-1, WSSRs, Certified Equipment, PRP, Two-person Concept, NSI)	A
20.2. Nuclear generation operations and concepts (custody transfer, weapons movement, exclusion area, SVA, critical components, tamper control, PNAF)	A
20.3. USAF nuclear weapons (B61, B83, ALCM, pylons/MMHE, use control)	A
<b>21. PLANS AND SCHEDULING TR: AFI 21-101, AFI 10-201, AFI 10-244, AFTTP 3-3</b>	-
21.1. First look requirements, annual & quarterly plans	A
21.2. Develop a monthly, weekly, and daily aircraft utilization and maintenance schedule	2b

<b>22. STATUS AND MEASUREMENT TR: AFI 10-201, AFI 10-244, AFI 21-101, AFI 21-103, AFTTP 3-3</b>	-
22.1. Various maintenance information systems	A
22.2. Uses of various maintenance indicators	B
22.3. Use of AEF Reporting Tool (ART) and Status of Resources and Training System (SORTS) reports and Defense Readiness Reporting System (DRRS)	A
22.4. Data Integrity Team (DIT) process	A
22.5. Deficiency Analysis (DA) process	A
<b>23. LOGISTICS TR: AFI 21-101, AFI 23-107, AFI 23-201, AFI 23-202, AFD 23-5, AFM 23-110, AFMAN 23-110, AFMAN 23-220, AFMAN 23-117, AFJMAN 23-209, AFJMAN 23-215, AFTTP 3-3</b>	-
23.1. Supply procedures pertaining to maintenance	B
23.2. Functions of the base-level Logistics Readiness Squadron (distribution, material management, and contingency operations)	B
23.2.1. Understand the purpose of the support agreement program	A
23.3. Roles of the Global Logistics Support Center (GLSC)/DLA	A
<b>24. OPERATIONS TR: AFI 21-101, AFTTP 3-3</b>	-
24.1. Base-level flying operations and supporting logistics functions	B
24.2. Emergency action plan and contingency situations	B
24.3. Operation scheduling factors (i.e. upgrades, RAP/AMC Individual Training Requirements)	A
<b>25. UNIT LEVEL MAINTENANCE TR: AFI 21-101, AFI 21-201, AFTTP 3-3</b>	-
25.1. Common practices and procedures relating to aircraft maintenance * (Observe flight line maintenance actions)	B
25.2. Flight line communication	B
25.3. Accomplish procedures for aircraft sortie generation	2b
25.4. Daily munitions operations process	A
<b>26. CONTINGENCY OPERATIONS TR: AFI 10-402, AFI 10-403, AFI 10-404, AFI 90-201, AFMAN 10-100, AFD 24-2, AFTTP 3-3</b>	-
26.1. Elements of an exercise, installation deployment, and IGESP (DOC statement and UTC)	B
26.2. Elements of a Generation Flow Plan	B
26.3. Wing level command and control functions (ex; ICC, EOC)	A
<b>27. AIR FORCE INSPECTION PROGRAMS TR: AFI 21-101, AFI 90-201, AFI 20-111, AFTTP 3-3</b>	-
27.1. Air Force inspection programs	A
<b>28. AF DOCTRINE TR: AFDD-1, AFD 10-4, AFTTP 3-3, AFI 36-2640V1, AFDD 4-0</b>	-
28.1. Agile combat support	B
28.2. Air and Space Expeditionary Forces (AEF) and Total Force Concept of Operations	A
28.3. Aircraft Maintenance Tactics, Techniques and Procedures (AFTTP 3-3)	B

28.4. Joint logistics doctrine	A
<b>29. CASE STUDY/FORUM (SENIOR OFFICER/SNCO/NCO PERSPECTIVE)</b> <b>TR: AFTTP 3-3</b>	-
29.1. Maintenance officer expectations	A

Note: All \* 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.

Attachment 3

**COURSE TRAINING STANDARD (CTS)  
ACCELERATED AIRCRAFT MAINTENANCE OFFICER COURSE (AAMOC)**

**Task, Knowledge, and Proficiency Level**

<b>1. MUNITIONS TR: AFI 21-101, AFM 91-201</b>	-
1.1. Conventional munitions and components	A
1.2. Guided munitions and components	A
1.3. Unsafe situations pertaining to explosive handling operations	A
1.4. Conventional munitions accountability procedures	A
1.5. Daily fragmentary order and how its change affects aircraft generation requirements	A
<b>2. NUCLEAR OPERATIONS</b>	-
2.1. Fundamentals of the Nuclear Surety Program (TP 25-1, WSSRs, Certified Equip, PRP, Two-person Concept, NSI and PNAF)	A
2.2. Nuclear generation operations and concepts (custody transfer, weapons movement, exclusion area, SVA, critical components and tamper control)	A
2.3. USAF nuclear weapons (B61, B83, ALCM, pylons/MMHE, use control)	A
<b>3. ARMAMENT TR: AFI 21-101, TO 00-20-1</b>	-
3.1. Aircraft gun systems and components	A
3.2. Aircraft weapons release components	A
3.3. Aircraft loading process	A
<b>4. AIR FORCE PUBLICATION SYSTEMS TR: AFI 21-101, TO 00-5-1</b>	-
4.1. Use and application of technical orders (T.O.)	B
4.2. Methods used to keep TOs current	A
<b>5. MAINTENANCE FORMS TR: AFI 21-101, TO 00-20-1</b>	-
5.1. Perform an exceptional release and maintenance downgrade	2b
5.2. Perform a maintenance upgrade and perform required procedures to correct symbols entered in error	2b
<b>6. MAINTENANCE ORGANIZATION / FUNCTIONS TR: AFI 21-101</b>	-
6.1. Basic maintenance organization	B
6.2. Functional responsibilities of maintenance staff agencies	B
6.3. Functional responsibilities of maintenance shops and sections	B
6.4. Levels of maintenance	A
6.5. Functional responsibilities of maintenance managers	B
6.6. Maintenance responsibilities of the Air Logistic Complex (ALC)	A
<b>7. PERSONNEL TR: AFDD-1, AFI 36-2201, AFI 36-2232, AFI 36-2640, AFI 38-201, AFI 38-204, AFMAN 36-606, AFPD 38-2</b>	-
7.1. Maintenance officer career path and training requirements	B
7.2. Maintenance officer role in enlisted professional development (including recognition, counseling, Professional Military Education (PME), career progression, etc)	B

7.3. Civilian personnel system	A
7.4. Manpower requirements	A
7.5. Maintenance training process	A
<b>8. RESOURCE MANAGEMENT TR: AFI 64-117, AFI 65-601</b>	-
8.1. Base level elements of the financial resource management system/resource management programs	A
<b>9. PROGRAMS TR: AFI 21-101, AFI 21-113, AFI 21-118, AFI 21-132, TO 00-5-1, TO 00-5-15, TO 00-25-254, TO 1-1-300</b>	-
9.1. Quality Assurance programs	B
9.2. Aircraft Modification program	A
9.3. Time Compliance Technical Order (TCTO) process	A
9.4. Automated engine management system TO 00-25-254-1 and 00-25-254-2	A
9.5. Reliability and maintainability programs	A
9.6. Preventive maintenance program	B
9.7. Foreign Object Damage (FOD) and Dropped Object Prevention (DOP) Program	B
9.8. User responsibilities for maintenance of Test, Measurement, and Diagnostic Equipment (TMDE)	A
9.9. Crash Damaged or Disabled Aircraft Recovery (CDDAR) Program	A
<b>10. AIR FORCE OCCUPATIONAL SAFETY AND MISHAP PREVENTION TR: AFI 91-202, AFI 91-501</b>	-
10.1. Principles of Air Force Occupational Safety and Health (AFOSH) & mishap prevention	B
10.2. Unsafe situations which may be encountered in maintenance, identify danger areas in and around the aircraft	A
10.3. Principles and implementation of Risk Management (RM)	B
<b>11. ENVIRONMENTAL PROTECTION TR: AFI 32-7005, AFI 32-7042, AFI 32-7045, AFI 32-90-821</b>	-
11.1. Application of Environmental Protection Agency (EPA) laws to include examples of the impact of state regulations to aircraft maintenance	A
11.2. Examples of hazardous waste minimization techniques	A
11.3. Hazardous Communication (HAZCOM)	A
11.4. Proper techniques for issue, use, return, disposal and recycling of hazardous materials	A
<b>12. PLANS AND SCHEDULING TR: AFI 21-101, AFI 10-201, AFI 10-244, AFTTP 3-3</b>	-
12.1. First look requirements, annual & quarterly plans	A
12.2. Develop a monthly, weekly, and daily aircraft utilization and maintenance schedule	2b
<b>13. STATUS AND MEASUREMENT TR: AFI 10-201, AFI 21-101, AFI 21-103</b>	-
13.1. Aircraft status	A
13.2. Various maintenance information systems	A

13.3. Use of maintenance indicators	B
13.4. Uses of AEF Reporting Tool (ART) and Status of Resources and Training System (SORTS) reports and Defense Readiness Reporting System (DRRS)	B
13.5. Data Integrity Team (DIT) process	A
13.6. Deficiency Analysis (DA) process	A
<b>14. LOGISTICS TR: AFI 21-101, AFI 38-101, AFM 23-110</b>	-
14.1. Functions of the Logistics Readiness Squadron (distribution, material management, and contingency operations)	B
14.2. Supply procedures pertaining to maintenance	B
14.3. Roles of the Global Logistics Support Center (GLSC)/DLA	A
<b>15. OPERATIONS TR: AFI 21-101, AFI 38-101, AFTTP 3-3, TO 00-25-172</b>	-
15.1. Functions of base-level flying operations and supporting functions	B
15.2. Emergency action plans and contingency situations	B
15.3. Operation scheduling factors (i.e. upgrades, RAP/AMC Individual Training Requirements)	A
<b>16. UNIT LEVEL MAINTENANCE TR: AFI 21-101, AFI 21-201, TO 00-25-172</b>	-
16.1. Practices and procedures relating to aircraft servicing operations	A
16.2. Common practices and procedures relating to aircraft maintenance	B
16.3. Common practices and procedures relating to aircraft ground handling operations	A
16.4. Accomplish procedures for aircraft sortie generation	2b
16.5. Daily munitions operation process	A
<b>17. CONTINGENCY OPERATIONS TR: AFI 10-401</b>	-
17.1. Elements of an exercise, deployment and IGESP (DOC statement and UTC)	B
17.2. Elements of a Generation Flow Plan	B
17.3. Wing level command and control functions (ex; ICC, EOC)	A
<b>18. AF DOCTRINE TR: AFDD-1, AFPD 10-4, AFTTP 3-3, AFI 36-2640V1, AFDD 4-0</b>	-
18.1. Agile combat support	B
18.2. Air and Space Expeditionary Forces (AEF) and Total Force Concept of Operations	A
18.3. Aircraft Maintenance Tactics, Techniques and Procedures (AFTTP 3-3)	B
18.4. Joint logistics doctrine	A
<b>19. AIR FORCE INSPECTION PROGRAMS TR: AFI 21-101, AFI 90-201, AFI 20-111, AFTTP 3-3</b>	-
19.1. Air Force inspection programs	A

## Attachment 4

**COURSE TRAINING STANDARD (CTS)  
MAINTENANCE OFFICER INTERMEDIATE COURSE (MOIC)**

**Task, Knowledge, and Proficiency Level**

<b>1. AIR FORCE MATERIEL COMMAND (AFMC) TR: AFI 21-101, AMCI 21-101, AMCI 11-201, AFD 64-1, AFTTP 3-3</b>	-
1.1. Interaction between lifecycle management/acquisition managers and field units	B
1.2. AFMC interaction with field units and MAJCOM staffs	A
1.3. Interaction between AFMC supply chain program managers/item managers and field units	A
1.4. Functionality of R&D, ODT&E, and Test (i.e. AFRL, Air Force Test Center)	A
<b>2. OPERATIONS TR: AFTTP 3-3, ALL MAJCOM 21-165, AFI 11-101, AFI 11-102, AFI 11-103, AFI 11-202</b>	-
2.1. DOC Statement and its implications in fulfilling a Wing's mission	B
2.2. Flying hour program requirements in support of DOC Statement	B
2.2.1. Airframe/equipment, facilities and personnel factors to determine maintenance production capabilities	B
2.2.2. Balance between operational requirements and maintenance capabilities	B
<b>3. TRAINING TR: AFI 36-2201, CFETP 21AX/21MX</b>	-
3.1. Purpose and uses of a Special Certification Roster (SCR)	B
3.2. Requirements for officer and enlisted maintenance training	B
3.3. SEI's, SHRED's and qualification levels	B
<b>4. PERSONNEL READINESS TR: AFI 10-201, AFI 10-244, AFI 38-201</b>	-
4.1. How to read and interpret manpower documents	B
4.2. Manpower modeling/LCOM	B
4.3. Purpose of the Status of Resources and Training System (SORTS) AEF Reporting Tool (ART) and Defense Readiness Reporting System (DRRS)	B
4.4. Purpose, process, and consequences of an Authorization Change Request (ACR)	A
<b>5. BUDGET TR: AFI 65-601 V1, AFD 16-5, DODI 5000.2</b>	-
5.1. Unit's role in the planning, programming, and execution of the wing budget	A
<b>6. ANALYSIS TR: AFI 21-101, AFTTP 3-3, METRICS HANDBOOK</b>	-
6.1. Maintenance Management Analysis Section	B
6.2. Utilization of critical maintenance metrics and data	B
<b>7. EXPLOSIVE AND WEAPONS SAFETY TR: AFI 21-101, AFMAN 91-201, AFPAM 90-902, WSSR, AFTTP 3-3</b>	-
7.1. Regulatory aspects pertaining to munitions and munitions storage	A
7.2. Perform classroom site planning for explosive and weapons safety in peacetime and contingency operations	2b

7.3. Nuclear Surety Management principles	A
7.3.1. Nuclear Enterprise Organizational structure	A
7.3.2. Case Study application (Minot)	A
7.4. Nuclear Certified Equipment Management	A
<b>8. QUALITY ASSURANCE (QA) TR: AFI 21-101, AFI 21-204</b>	-
8.1. Utilization of QA as a management tool (PIP and MSEP)	B
<b>9. MATERIEL MANAGEMENT PROCESSES TR: AFMAN 23-110, AFI 21-101, 21-201, AFTTP 3-3</b>	-
9.1. Sources of Supply	B
9.1.1. Intermediate Repair Enhancement Program	B
9.2. Global Ammunition Control Point (GACP) manages War Reserve Materiel munitions requirements, allocations, reporting, and global asset positioning	B
<b>10. DEPLOYMENTS/EMPLOYMENT TR: AFI 10-401, AFI 10-403, AFI 10-404, AFD 10-4, JP 5-0, AFTTP 3-3, AFTTP 3-4</b>	-
10.1. Resources and information required to build the logistics annex of an In-Garrison Expeditionary Site Plan/ESP (maintenance capabilities, facilities, LIMFACs, etc)	B
10.2. Types of Readiness Spares Packages (RSP)	A
10.2.1. Impact of RSP shortfalls in the deployment/employment process	B
10.3. Agile Combat Support	A
10.3.1. Deployment process, from tasking to launch (i.e. Generation Flow Plan, TPFDD)	B
10.3.2. Employment process	B
10.3.3. Redeployment/reconstitution process	B
10.4. Interfacing with AMC global transportation network	B
10.4.1. Expeditionary Mobility Task Force (EMTF)	A
10.4.2. 618th Tanker/Airlift Control Center (TACC)	A
10.5. Air Expeditionary Force (AEF) Construct	B
10.6. Key elements to expeditionary site surveys affecting maintenance and flying operations	A
10.7. Interaction between Expeditionary Wing and AFFOR and Combined Air Operations Center	B
10.8. Air Tasking Order process	B
10.9. Key elements of Command and Control in the Joint Environment	A
<b>11. MAINTENANCE LEADERSHIP AND PROCESS MANAGEMENT TR: AFI 21-101, 00-20-1, AFTTP 3-3, DODI 5010.42, DOD CPI GUIDEBOOK, AF PORTAL AFSSO 21</b>	-
11.1. Maintenance Operations Officer Responsibilities	A
11.2. Documentation management	B
11.3. Workforce Management	B

11.3.1. Total Force Integration	B
11.3.2. Contract Maintenance	A
11.3.3. Civil Service	A
11.4. Centralized Asset Management effects on Wing Budget Processes	A
11.5. Maintenance/Operations Plans and Scheduling	B
11.6. Fifth-Gen Management (i.e. Low Observable, Information Systems)	A
11.7. Continuous Process Improvement	B
11.7.1. Process improvement initiatives currently used in the field (i.e. AFSO21, LEAN and 6S)	B
<b>12. REPAIR NETWORK OPERATIONS TR: AF VISION 2020</b>	-
12.1. Repair Network Integration and Centralized Repair Facility	A
<b>13. COMMAND FORUM (PANEL FORUM WITH CURRENT/GRADUATED SQUADRON COMMANDERS)</b>	-
13.1. Maintenance officer expectations	A