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CFETP 1U0X1
Parts I-II
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AFSC 1U0X1
SENSOR OPERATOR

CAREER FIELD
EDUCATION AND TRAINING PLAN
(CFETP)

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CAREER FIELD EDUCATION AND TRAINING PLAN
SENSOR OPERATOR
AFSC 1U0X1

PART I
Preface

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training.

2. The CFETP consists of two parts; both of which management uses to plan, manage, and control training within the career field.

   2.1. Part I provides information necessary for overall management of the specialty. Section A explains how everyone will use the plan; Section B identifies career progression information, duties and responsibilities, training strategies, and career field path; Section C associates each level with specialty qualifications (knowledge, education, training, and other); Section D indicates resource constraints. Some examples are funds, manpower, equipment, and facilities. *Note***:** The *Air Force Enlisted Classification Directory* (AFECD) and AFI 36-2101 *Classifying Military Personnel (Officer and Enlisted)* contain the specialty descriptions.

   2.2. Part II includes the following: Section A identifies the Specialty Training Standard (STS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, and correspondence course requirements. Section B contains the course objective list and training standards supervisors will use to determine if Airmen satisfy training requirements. Section C identifies available training support materials. Section D identifies a training course index, which is used to determine resources available to support training. Included here are both mandatory and optional courses. Sections E and F identify MAJCOM unique training requirements.

   2.3. Attachment 3 to the electronic version of the CFETP is a career path chart. This chart provides a visual depiction of the Sensor Operator AFSC, Critical Skill Incentive Pay (CSIP), years of aviation service, and key information to education, training and qualification. It also contains promotion information specific to the Sensor Operator AFSC, such as average time in grade, time in service, as well as Air Force averages. This chart provides a timeline for achieving additional qualifications such as instructor, evaluator, Flying Training Unit (FTU) assignment, and leadership opportunities within the Squadron, Group, Wing and MAJCOM and HQ/USAF.

3. This CFETP is designed to ensure individuals in AFSC 1U0X1 receive comprehensive and effective training at the appropriate phases of their career. At unit level, supervisors and trainers use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

ABBREVIATIONS/TERMS EXPLAINED

NOTE: These terms have been standardized through all Career Enlisted Aviator CFETPs. Not all terms may appear in this volume.

Air Education and Training Command (AETC). The primary training and professional education command in the Air Force. **Its** mission is to recruit, train and educate Airmen to deliver air power.

Advanced Training (AT). Formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career Airmen at the advanced level of the AFS.

Air Force Career Field Manager (AFCFM). Representative appointed by the respective HQ USAF Deputy Chief of Staff or Under Secretariat, to ensure assigned AF specialties are trained and utilized to support AF mission requirements.

Air Force Specialty Code (AFSC)

Air Reserve Component (ARC). Air National Guard and Air Force Reserve units.

Aircrew Fundamentals Course (AFC). A course designed to prepare enlisted personnel for their transition to a career in aviation. Knowledge presented in the course includes physiological, survival, aircrew mission, anti-hijacking and anti- terrorism, aircrew coordination, aircrew training, basic aerodynamics, aircraft publications, safety, and flight medicine. This course screens for the ability to handle the rigor of aircrew duties prior to candidates entering expensive follow-on training resources.

Aircrew Training System (ATS). A system wherein a civilian contractor provides academic, simulator, and other designated aircrew training. ATS courses are listed in the applicable AFMAN 11-2 MDS-Specific, Volume 1 or the Education and Training Course Announcement (ETCA) website (https://cs22.eis.af.mil/sites/app10-etca/sitesPages/home.aspex#HOME).

Airman Leadership School (ALS)

Basic Aircraft Qualification (BAQ). An aircrew member who has satisfactorily completed training prescribed to maintain the skills necessary to perform aircrew duties in the unit aircraft.

Basic Flight Engineer Course (BFE)

Basic Loadmaster Course (BLM)

Basic Military Training (BMT)

Basic Mission Capable (BMC). An aircrew member who has satisfactorily completed mission qualification training, is qualified in some aspect of the unit mission, but does not maintain MR/CMR status.

Basic Qualification (BQ). A status of a crewmember who has satisfactorily completed the basic training prescribed to maintain the skills necessary to operate the unit aircraft. The member must perform at the minimum frequency necessary to meet the most recent sortie and flight standards set for that weapons system.

Basic Sensor Operator Course (BSOC). Provides undergraduate, initial skills training through award of the 3-level for the 1U0X1 AFS**.**

Career Enlisted Aviator (CEA). An aircrew member in any of the 1AXXX or 1UXXX career fields.

Career Enlisted Aviator Center of Excellence (CEA CoE). The USAF CEA Undergraduate Training Center located at Joint Base San Antonio, TX. Provides undergraduate, initial skills training through award of the 3-skill level.

Career Field Education and Training Plan (CFETP). A CFETP is a comprehensive core-training document that identifies life-cycle education and training requirements; training support resources, and minimum core task requirements for a specialty. The CFETP aims to give personnel a clear path and instill a sense of industry in career field training.

Combat Mission Ready (CMR). An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit combat mission.

Community College of the Air Force (CCAF)

Continuation Training (CT). The continuation-training program provides crewmembers with the volume, frequency, and mix of training necessary to maintain proficiency in the assigned qualification level.

Core Task (CT). A task AFCFMs identify as a minimum qualification requirement within an Air Force specialty or duty position. Core Tasks for the AFS can be either task or knowledge based and are the STS line items fundamental to meeting these core competencies. Each MAJCOM is responsible for developing the minimum standard to which each core task will be trained. Core skills (or knowledge) must be trained, maintained, and certified, regardless of duty position/location and are based upon skill level.

Course Training Standard (CTS). A training standard identifying the training members will receive in a specific course.

Crew Resource Management (CRM). The effective use of all available resources—people, weapon systems, facilities and equipment, and environment by individuals or crews to safely and efficiently accomplish an assigned mission or task. The term "CRM" will be used to refer to the training program, objectives, and key skills directed to this end.

Critical Skill Incentive Pay (CSIP)

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

Evaluator [Crew Position] (Exx). An instructor qualified in that crew position selected from the most highly qualified and experienced instructors and designated in writing by the OG/CC or SQ/CC to administer evaluations to others in that crew position.

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

Facilitated Distance Learning (FDL)

Federal Aviation Administration (FAA). Federal agency designed to monitor, approve, and qualify all aspects of the aircraft industry.

Field Evaluation Questionnaire (FEQ). An extensive survey based on the CFETP to determine how well the formal training met the apprentice levels outlined in the CFETP. This survey is sent approximately six months after graduation to the Base Education and Training Manager, if unclassified, or direct to the unit-training manager, if classified.

Field Technical Training. Special or regular on-site training conducted by a field training detachment (FTD), Formal Training Unit (FTU) or by a mobile training team (MTT).

Formal/ Flying Training Unit (FTU). Name given to an Air Education and Training Command (AETC) or MAJCOM conducting formal/flight training.

Full Motion Video (FMV). Motion pictures are run at 30 fps, which is the minimum frequency required to eliminate the perception of moving frames and make the images appear visually fluid to the eye. FMV is delivered to provide moving video images to airborne and ground based platforms.

Functional Manager. Individual appointed by MAJCOMs to manage education, training, and resources for an Air Force Specialty (MAJCOM Functional Manager or MFM).

Graduate Assessment Survey (GAS). Survey conducted in accordance with AFI 36-2201. Used by recent graduates to evaluate the quality of formal training received and its applicability to their job. The data is used to determine the effectiveness of, and need for changes in training.

Initial Qualification Training (IQT). Training needed to qualify aircrew for basic aircrew duties in an assigned crew position for a specific aircraft, without regard for the unit's operational mission.

Initial Skills Training. A formal school course that results in the award of a 3-skill level AFSC.

Input/Feeder AFSC. A list of AF specialties designated as approved pre-requisites for entry into subsequent AFSC.

Instructional System Development (ISD). A deliberate and orderly, but flexible process for planning, developing, validating, implementing, and reviewing instructional programs. It ensures personnel are taught, in a cost efficient way, the knowledge and skills for successful job performance.

Instructor [Crew Position] (IXX). A crewmember authorized to instruct on those missions for which qualified.

Launch & Recovery Qualification Training (LRQT)

Lead Command. A MAJCOM responsible for an assigned weapons system. Lead Commands establish advocacy for designated weapon systems during their life cycle and clarify responsibilities for all using and supporting organizations. They provide primary input into the purpose of developing and maintaining a force structure with a balance of complementary capabilities.

MAJCOM Functional Manager (MFM). Primary focal point and liaison between the MAJCOM and HQ USAF on all matters relating to the aircrew career fields and aviation resource management within the command. This includes, but is not limited to, responsibility for the aircrew training programs, coordination on aircrew resource allocations, and managing education, training, and resources for a specific career field(s) for that MAJCOM.

Major Weapons Systems (MWS). Several like Mission Design Series (MDS) comprise a Major Weapons System (MWS) category (e.g., the bomber MWS is comprised of the B-1, B-2, and B-52 MDSs).

Mission Capable (MC). Status of an aircrew member who has satisfactorily completed mission qualification training but who does not maintain mission ready status.

Mission Design Series (MDS). A term used to identify a specific aircraft designation (e.g. MQ-9A, VC-25A).

Mission Qualification Training (MQT). Training needed to qualify a crewmember in an assigned crew position for a specific aircraft to perform the command or unit mission.

Mission Ready (MR). An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit operational mission.

Non-commissioned Officer Academy (NCOA)

Non-commissioned Officer Distance Learning Course (NCO DLC)

On-the-Job Training (OJT). A delivery method used to certify personnel in job qualification (duty position certification) training. It is hands-on, over-the-shoulder training conducted at the duty location.

Operational Flying Duty (OFD). Aggregate months of flying duty performed under competent orders while serving in assignments in which flying skills are maintained in the performance of assigned duties

Practicum. A means of receiving college credits through Community College of the Air Force (CCAF) Teaching Technology Associates Degree Program for formal schoolhouse instructors. It covers a wide variety of subjects beyond initial instructor qualification.

Qualification Training (QT). Actual hands-on task performance training designed to qualify an aircrew member in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skill/knowledge training required to do a job.

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

Retraining. An Air Force objective to balance the career force of each AFSC as needed. The retraining program allows individual Airmen a choice of career fields from which to pursue an Air Force career and provides a method to return Airmen disqualified from their current AFSC to a productive status.

Senior Enlisted Joint Professional Military Education (SEJPME)

Senior Non-commissioned Officer Academy (SNCOA)

Senior Non-commissioned Officer Distance Learning Course (SNCO DLC)

Sensor Operator Advanced Instructor Course (SO AIC). A formal instructor course to provide advanced academic, simulator, and flight training with a focus on building and developing tactical, technical, and instructional expertise. The overall vision is to enhance enlisted aircrew leadership, develop instructional methodology, technical expertise, and continuity within the RPA sensor operator community.

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

Squadron Operations Cell (SOC). An entity composed of intelligence and operational support personnel that focuses on dynamic mission planning and ongoing mission support. Composition may vary, but a typical SOC will include a mission commander or operations supervisor, intelligence personnel, and possibly one or more weather specialists.

Standard. An exact value, a physical entity, or abstract concept, that the appropriate authority, custom, or common consent sets up and defines to serve as a reference, model, or rule in measuring quantities or qualities, developing practices or procedures, or evaluating results. A fixed quantity or quality.

Subject Matter Expert (SME). An individual qualified in a particular specialty and who is consulted with for his or her subject matter expertise or knowledge of the specialty.

Survival, Evasion, Resistance, and Escape (SERE). Actions performed by isolated personnel designed to ensure their health, mobility, safety, and honor in anticipation of or preparation for their return to friendly control. Also called SERE.

Syllabus. Published outline of training required to achieve the proficiency specified in the course training standards for a specific course. It prescribes the course content, instructions to conduct the training, and the approximate time necessary to successfully complete all requirements. A formal syllabus may be published to include IQT, MQT, CT, and other aircrew training as determined by the training command, MAJCOM, or unit. (Formal and standardized syllabus are used primarily in AETC formal or developed courses.)

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

Unit Type Code (UTC). A UTC is a potential unit of capability focused on accomplishment of a specific Air Force mission. It can consist of manpower (MFE) only, equipment (LOGDET) only, or both.

Unqualified [Crew Position] (UXX). Student in upgrade training for a particular crew position's duties must be supervised by an instructor.

Upgrade Training (UGT). Mandatory training that leads to attainment of higher level of proficiency.

Utilization and Training Workshop (U&TW). A forum consisting of the AFCFM, MAJCOM functional managers (MFM), Subject Matter Experts (SME), and AETC training personnel who determine career field training requirements.

Weapons System Training Package (WSTP). An instructional course which includes IQT, MQT, and CT designed for use at the unit to qualify or aid qualification in a duty position, program, or on a piece of equipment. The WSTP may be printed, computer based, flying, simulator, or other audiovisual material.

Years of Aviation Service (YAS)

Section A - General Information

1. Purpose.

This CFETP provides information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM Functional Managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective and efficient career field-training program. The plan outlines the training that individuals must receive in order to develop and progress throughout their career. For the purpose of this plan, training is divided into three areas: initial skills, qualification training (QT), and continuation training (CT). Initial skills training is the Air Force Specialty specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. Qualification training is actual hands-on task performance training designed to qualify an Airman in a specific duty position. Designed to provide the performance skills/knowledge training required for the job. Continuation training is additional training either in-residence or exportable advanced training courses, or on-the-job training provided to personnel to increase their skills and knowledge beyond the minimum required. The CFETP has several purposes, to include:

1.1. Serves as a management tool to plan, manage, conduct, and evaluate a career field-training program.

1.2. Identifies task and knowledge training requirements and recommends education and training for each skill level and phase of an individual's career in this Air Force Specialty (AFS).

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

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

2. Uses.

MFMs and supervisors at all levels will use the plan to ensure comprehensive and cohesive training programs are available and/or instituted for each individual in the specialty.

2.1. AETC training personnel will develop and revise formal resident, non-resident, field and exportable training based on requirements established by the user and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.MFMs will ensure their training programs complement the CFETP mandatory initial and upgrade skills requirements. OJT, resident training, contract training, or exportable courses can satisfy identified requirements. MAJCOM-developed training to support this AFSC must be identified for inclusion in this plan and must not duplicate available training resources.2.3. Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.

2.4. Personnel in AFSCs 1AXXX or 1U0X1 are exempt from maintaining OJT Training Folders (AF Form 623). All training is certified via AF Form 8, *Certificate of Aircrew Qualification* by trained flight examiners. Qualification on the AF Form 8 eliminates the requirement to document STS items in this CFETP.

3. Coordination and Approval.

The AFCFM is the approval authority. MAJCOM functional managers and AETC training managers will identify and coordinate on the career field training requirements. The AFCFM will initiate an annual review of this document and coordinate with AETC and MFMs to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training. Send applicable inputs/changes to this CFETP through MAJCOM Functional Managers to HQ USAF/A3 ACTF, 1480 Air Force Pentagon, Washington D.C. 20330-1480 or the following organizational email address: usaf.pentagon.af-a3.mbx.a3xi-workflow@mail.mil.

Section B - Career Progression and Information

4. Specialty Description

4.1. **Specialty Summary.** Performs duties as a mission crewmember on Remotely Piloted Aircraft (RPA) or other airborne platforms utilizing sensor payloads. Sensor Operators employ airborne sensors in manual or computer-assisted modes to actively and/or passively acquire, track, and monitor airborne, maritime and ground objects. Operates mission equipment, systems, and electronic protection (EP) equipment. Personnel conduct operations and procedures IAW Special Instructions (SPINS), Air Tasking Orders (ATO) and Rules of Engagement (ROE). Sensor Operators continually monitor aircraft and weapons systems status to ensure lethal and non-lethal application of airpower. Related DoD Occupational Subgroup: 105000.

4.2. **Duties and Responsibilities.**

4.2.1. Performs mission planning, preflight, in-flight, and post-flight duties in accordance with aircraft technical orders, applicable Air Force Instructions (AFIs), and Unified Combatant Commands' theater Rules of Engagement (ROE). Must understand Tactics, Techniques, and Procedures (TTPs) for friendly and enemy Air Order of Battle (AOB) assets. Operates mission planning ancillary equipment to initialize information for download to airborne mission systems. Receives, interprets, extracts, and disseminates relevant ATO, Airspace Control Order (ACO), and Special Instructions (SPINs) information. Participates in post-flight debriefing to establish mission accomplishments and potential procedural development.

4.2.2. Performs Intelligence, Surveillance and Reconnaissance (ISR), Close Air Support (CAS); Personnel Recovery (PR); Dynamic Targeting/Time Sensitive Targeting (DT/TST); Air Interdiction (AI); Strike Coordination and Reconnaissance (SCAR); and Maritime Air Support (MAS) utilizing Full Motion Video (FMV) and various sensors, mission equipment, and precision guided munitions. Detects, analyzes and discriminates between valid and invalid targets using synthetic aperture radar, moving target indicator, electro-optical, low-light, and infrared full-motion video imagery, and other active or passive acquisition and tracking systems.

4.2.3. Assists in air navigation, AOB integration, fire control planning, and determining effective weapons control and delivery tactics to achieve overall mission objectives. Interprets charts, imagery, and video data supporting relay of information to various agencies to provide real-time mission data and target updates. Receives target briefs (9-lines) for weapons delivery. Conducts immediate first phase Battle Damage Assessments (BDA) for up-channel coordination and potential re-attack. Utilizes laser target marking systems to provide target identification and illumination in support of other combat assets. Responsible for the terminal guidance of onboard/off-board weapons using a tactical laser for guidance and delivery of onboard weapons and other laser-guided munitions.

4.2.4. Conducts crewmember duties related to launch and recovery operations. Configures Ground Control Station (GCS) and aircraft systems to conduct handover operations. Monitors aircraft systems, notifies pilot of system malfunctions, and assists with diagnosis and troubleshooting. Executes all normal and emergency procedure checklists and assists pilot in complying with all applicable technical orders and flight regulations.

4.2.5. Performs training, planning, standardization and evaluation, and other administrative duty functions for system operations and conducts training for operations systems personnel. Develops and reviews instructional methods and procedures used in Initial Qualification Training (IQT), Mission Qualification Training (MQT), Launch and Recovery Qualification Training (LRQT), Continuation Training (CT), Instructor Sensor Operator Upgrade (ISOUG), and Sensor Operator Advanced Instructor Course (SO AIC). Reviews training status and recommends remedial training. Evaluates aircrew academic, simulation, and in-flight performances. Reviews trend analysis of flight evaluations to identify training deficiencies. Supervises subordinates during the performance of their duties. Reviews training status and arranges additional, remedial, and continuation training. Conducts periodic inspections of aircrew operations and unit activities.

4.2.6. Performs staff functions. Performs staff duties at squadron level and above where Sensor Operator expertise is required.

5. Skill/Career Progression.

Adequate training and timely progression from the apprentice to the superintendent skill level play an extremely important role in the Air Force's ability to accomplish its mission. Therefore, it is essential that everyone involved in training do his or her 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 individuals receive viable training at the appropriate points in their career. The following narrative and the AFSC 1U0X1 career field flow charts identify the training career path. They define the training required in an individual's career.

5.1. **Apprentice (3) Level.** Initial skills training in this specialty consists of the tasks and knowledge training provided in the 3-skill level resident course (1U0X1). Tasks and knowledge training requirements are identified in the specialty training standard, at Part II, Section A. Individuals must complete the initial skills course to be awarded AFSC 1U0X1.

5.2. **Journeyman (5) Level.** To be awarded AFSC 1U051, the trainee must complete requirements as listed in the applicable MAJCOM aircrew training directives, initial qualification training, and either mission qualification training or launch and recovery qualification training. A qualifying form 8 certifies the completion of this training.

5.3. **Craftsman (7) Level.** To be awarded AFSC 1U071, the trainee must be a SSgt, complete all 3- and 5-skill level training requirements, and meet all requirements as listed in the applicable MAJCOM aircrew training directives. Individuals in retraining status are subject to the same training requirements. The trainees must complete unit specific mission qualification training or launch and recovery qualification training.

5.4. **Superintendent (9) Level.** To be awarded AFSC 1U091, an Airman must be a SMSgt and have his or her supervisor's recommendation. Additionally, complete any other requirements specified in the *Air Force Enlisted Classification Directory (*AFECD) and AFI 36-2101*, Classifying Military Personnel (Officer and Enlisted).*

5.5. **Chief Enlisted Manager (CEM).** CEM code is awarded when selected for promotion to Chief Master Sergeant.

6. Training Decisions.

The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Sensor Operator specialty. This CFETP was developed to include life-cycle (day one through retirement) training requirements for this specialty. The spectrum includes a strategy for when, where, and how to meet the training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training.

6.1. **Initial Skills Training.** Significant changes were made in initial skills training. A Course Training Standard (CTS) was created to align common core training amongst all 1A/1U AFSCs into the Aircrew Fundamentals Course. The initial skills training will be revised to provide training needed to prepare graduates for Sensor Operator related positions.

6.2. **Five Level Upgrade Training.** Completion of initial and mission qualification training and a successful AF Form 8.

6.3. **Seven Level Upgrade Training.** Must complete all 3-level and 5-skill level training requirements. No formal 7-level upgrade training exists. The CSAF has approved a variance, eliminating the requirement for in-residence 7-level training for all 1AXXX/1U0XX (Aircrew Operations Career Field) personnel.

7. Community College of the Air Force (CCAF) Academic Programs.

CCAF provides the opportunity to obtain an Associate in Applied Sciences (AAS) in Air & Space Operations Technology Degree. Enrollment in CCAF occurs upon completion of basic military training. Off-duty education is a personal choice but is highly encouraged for career progression. See the CCAF website for program details regarding the AAS degree at: https://www.airuniversity.af.edu/Barnes/CCAF/

Additionally, see the Air Force Virtual Education Center website regarding AAS degree progress at: https://afvec.langley.af.mil/afvec/Home.aspx.

In addition to its associate degree program, CCAF offers the following:

7.1. **Instructor Certification.** CCAF offers Instructor Certifications to instructors teaching full time in a CCAF accredited school and will maintain affiliation IAW CCAF guidance. For instructor qualifications, see CCAF website at: https://www.airuniversity.af.edu/Barnes/CCAF/

7.2. **Instructor of Technology & Military Science Degree.** This program is offered to enlisted members who are assigned to CCAF affiliated schools teaching CCAF degree-applicable courses. Applicants must complete three semester hours of CCAF-approved instructor methodology coursework and hold their career-field related CCAF degree or equivalent civilian college degree before registration.

7.3. **Trade Skill Certification.** When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.

7.4. **Degree Requirements.** All Airmen are automatically entered into the CCAF program. The current program offers an associate's degree from the CCAF for AFSC 1U0X1: Air and Space Operations Technology Degree. Prior to completing an associate degree, the 5-skill level must be awarded and the following requirements must be met:

Table 1 Degree Requirements

Subject Area	Semester Hours
Technical Education	24
Leadership, Management, and Military Studies	6
Physical Education	4
General Education	15
Program Elective	15
Totals	**64**

7,4,1. **Technical Education (24 Semester Hours):** A minimum of 12 semester hours of technical core subjects or courses must be applied and the remaining semester hours applied from technical core or technical elective subjects or courses. Requests to substitute comparable courses or to exceed specified semester hour values in any subject or course must be approved in advance in advance.

Table 2 Technical Core (12-24 Semester Hours)

Subjects/Course	Max Semester Hrs.
Airborne Mission Systems	24
Aerospace Control and Warning Systems	24
Air Weapons Control Operations	24
Broadcast System Technology	24
CCAF Specialty Internship	18
Computer Networking	6
Geospatial Intelligence Fundamentals	18
Intelligence Fundamentals	12
Radio Communications	6
Remotely Piloted Aircraft Principles/Procedures	24
Space Systems Operations	24

Table 3 Technical Electives (0-12 Semester Hours)

Subjects/Course	Max Semester Hrs.
Advanced Aircrew Principles	10
Aircraft Systems	6
Aircrew Fundamentals	6
Aircrew Qualifications	6
Aircrew Trainer/Simulator/Flying Training	6
Astronautics	3
Astronomy	3
Aviation/Flight Safety	3
Basic Electronics Theory/Application	6
Computer Science	6
Management Information Systems	3
Programming Languages	6
Solid-State Theory/Application	3
Space Propulsion	3
Special Weapons/Tactics	12
Survival Training	6

7.4.2 **Leadership, Management, and Military (LMMS) Studies (6 Semester Hours):** Professional military education, civilian management courses accepted in transfer and/or by testing credit.. See CCAF General Catalog for application of civilian management courses.

7.4.3. **Physical Education (4 Semester Hours):** This requirement is satisfied by completion of BMT.

7.4.4. **General Education (15 Semester Hours):** Applicable courses must meet the criteria for application of courses to the General Education Requirement (GER) and agree with the definitions of applicable General Education subject/courses as provided in the CCAF general catalog.

Table 4 General Education Requirements

Subject/Courses	Semester Hours
Communications – Written Communications (English composition-not duplicative)	6
-or- Oral Communication (speech)	3
-and- Written Communication (English composition)	3
Mathematics (intermediate algebra or college-level mathematics)	3
Social Science (anthropology, archaeology, economics, geography, government, history, political science, psychology, sociology)	3
Humanities (courses in fine arts (criticism, appreciation, historical significance, foreign language, literature, philosophy, religion)	3

7.4.5. **Program Elective (15 Semester Hours):** Satisfied with applicable Technical Education, Leadership, Management, and Military Studies or General Education subjects/courses.

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

8. Assignments.

8.1. RegAF (Equal Plus):
https://afas.afpc.randolph.af.mil/AMSNET40/EnlistedAssignments/EnlistedAuthorized.aspx

8.2. Air Force Reserve: https://w45.afpc.randolph.af.mil/RMVSNet40/VacancyList.aspx

8.3. Air National Guard: https://www.goang.com/careers/find-your-career

9. Career Field Flow Charts.

9.1. The flow outlined in figure 1 (below) represents the formal training courses required for personnel entering and becoming fully qualified as an RPA Sensor Operator. The locations, course lengths, and titles are subject to change. The course owner will update changes in the Education Training Course Announcement.

9.2. Personnel graduating from the Basic Sensor Operator Course are awarded AFSC 1U031 and are authorized to wear the Airman Aircrew Member badge. Wear and permanent awarding requirements of the Airman Aircrew Member badge will be IAW AFMAN 11-402, *Aviation and Parachutist Service Aeronautical Ratings and Badges* and MAJCOM supplements.

Figure 1 1U0X1 Training Path 1 of 3

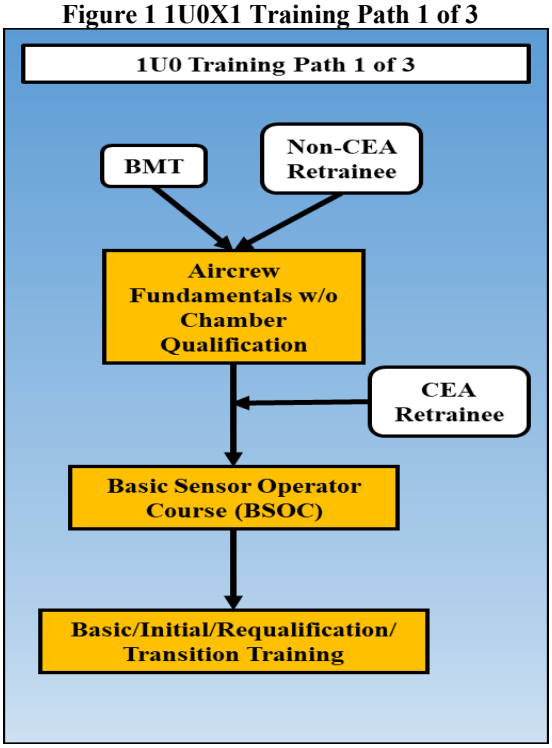


Figure 2 1U0X1 Training Path 2 of 3

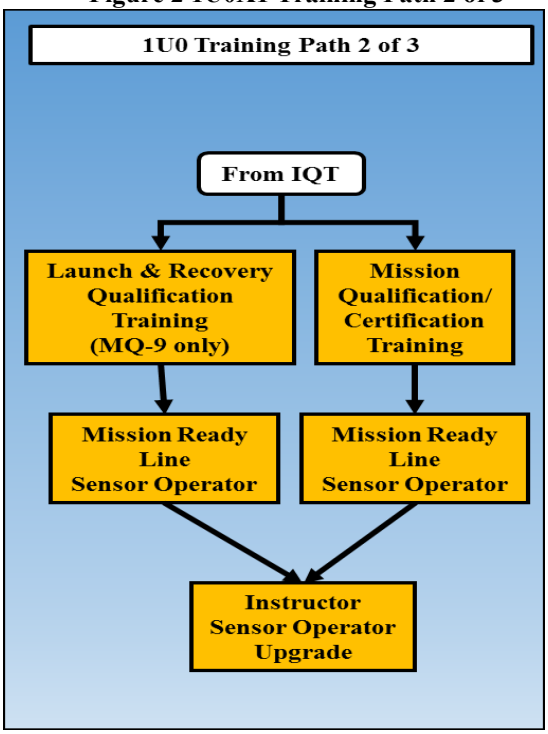


Figure 3 1U0X1 Traing Path 3 of 3

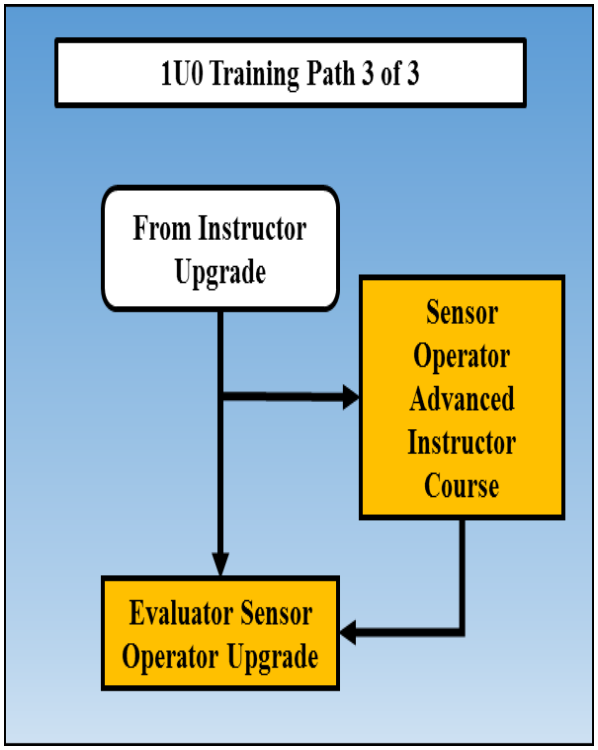


Table 5 1U0X1 Enlisted Education and Training Path

Enlisted Education and Training Path					
Education and Training Requirements	**GRADE REQUIREMENTS**				
	Rank	Earliest Sew-on	Air Force Average	1U0X1 Average	High Year of Tenure (HYT)
Basic Military Training School (BMTS)					
Apprentice Technical School (3-Skill Level)	Amn A1C	6 months 10 months			
Upgrade To Journeyman (5-Skill Level) - Completion of Initial/Mission/Launch and Recovery Qualification Training	Amn A1C SrA				
Airman Leadership School (ALS)* - Resident graduation is a prerequisite for SSgt sew-on (RegAF Only)	SrA	28 months	3 years	3 years	10 years
Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt	SSgt	3 years	4.39 years	3.72 years	20 years
NCO Academy (NCOA)* - Must be a TSgt or TSgt-select to attend (SSgts may attend if all class seats have not been filled) Resident graduation is a prerequisite for MSgt sew-on (RegAF Only)	TSgt	5 years	9.19 years	8,14 years	22 years
Senior NCO Academy (SNCOA)* - Must be a SMSgt, SMSgt select, or Non-selects to SMSgt across AFSCs, from highest WAPS score descending until class seats are filled	MSgt	8 years	14.36 years	12.07 years	24 years
Upgrade to Superintendent (9-Skill level) - Minimum rank of SMSgt	SMSgt	11 years	18.40 years	17.33 years	26 years
Chief Leadership Course - Must be a CMSgt or CMSgt Select to attend	CMSgt	14 years	20.97 years	20.60 years	30 years
Chief Enlisted Manager (CEM) - Minimum rank of CMSgt - Completed SNCO Academy (RegAF Only)					
*ARC personnel may satisfy EPME requirements via Distance Learning					
Data current as of 2 March 2020 References: AFI 36-2301 AFGM2014-01 *Developmental Education*; AFI 36-2201 Air Force Training Program; and https://mypers.af.mil					

Section C - Skill Level Training Requirements

10. Purpose.

Skill-level training requirements for this career field are defined in terms of task and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in broad, general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific task and knowledge training requirements are identified in the STS and the Course Objective List at Part II, Section A and B of this CFETP.

11. Specialty Qualifications:

11.1. **Apprentice 3-Level Training:**

11.1.1. **Specialty Qualification.**

11.1.1.1**. Knowledge.** Knowledge of the sensor fundamentals and its functional, operational multi-role characteristics to include precision attack, intelligence, surveillance and reconnaissance (ISR) is mandatory. Counter-land operations and mission systems; target detection and tracking functions, interpreting computer-generated console situation, electronically generated data, using identification procedures, passing, receiving and interpreting data link information; using air-to-air and air-to-ground communications systems; emergency procedures and equipment; maintenance of standard and technical publications; performing emergency action procedures and conducting theater air activities.

11.1.1.2. **Education.** For entry into this specialty, completion of high school with courses in physics and mathematics are desirable.

11.1.1.2.1. Minimum MAGE score of 64 (General) or 54 (Electrical).

11.1.1.3. **Training.** For award of AFSC 1U031, individuals must meet mandatory requirements listed in specialty description in Air Force Enlisted Classification Directory. Completion of the Aircrew Fundamentals Course is mandatory for non-prior service (NPS) and non-aviation service cross training students. Completion of the Basic Sensor Operator Course is mandatory for award of the 3-skill level AFSC. Prior Career Enlisted Aviators (CEA) may receive a HAF waiver to bypass BSOC courses and go directly to Initial Qualification Training (IQT). If a CEA member fails out of IQT, they must be reevaluated on case by case basis prior to a second opportunity to complete IQT reference AFMAN 11-402.

11.1.1.4. **Other.** The following are mandatory as indicated for entry, award, and retention of this AFSC:

11.1.1.4.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standard*.

11.1.1.4.2. Physical qualification for either a Flying Class III Physical or Ground Based Controller Physical, depending on aircraft duty according to AFI 48-123, *Medical Examination and Standards,* Section 6H.

11.1.1.4.3. Qualification for aviation service according to AFMAN 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

11.1.1.4.4. Eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

11.1.1.4.5. Must maintain eligibility to deploy and mobilize worldwide.

11.1.2. **Training Sources.** Completion of the BSOC satisfies the knowledge and training requirements specified in the specialty qualification section (above) for award of the 3-skill level. Completion of the Aircrew Fundamentals Course is mandatory.

11.1.3. **Implementation.** Entry into training is accomplished by initial accessions from Basic Military Training School (BMTS) or approved retraining from any AFSC. After graduation from 3-level awarding course, initial qualification training (IQT) begins when the individual enters formal flight training.

11.2. **Journeyman 5-Level Training**:

11.2.1. **Specialty Qualification.** All qualifications for AFSC 1U031 apply to the 1U051 requirements.

11.2.1.1. **Knowledge.** In addition to knowledge required for the 3-level and other qualifications as listed above, an individual must possess the knowledge and skills necessary to operate and maintain Sensor Operator equipment. Completion of qualification criteria in initial assigned aircraft is mandatory, which one attains by completion of initial qualification training and a successful AF Form 8.

11.2.1.2**. Education.** To assume the rank of SSgt, individual must be a graduate of the ALS.

11.2.1.3. **Training.** Completion of the following is mandatory for award of the 5-skill level:

11.2.1.4.. **Experience.** Qualification in and possession of AFSC 1U031. In addition, the trainee must complete requirements as listed in the applicable MAJCOM aircrew training directives, initial qualification training (IQT), a qualifying form 8, and the completion of either mission qualification training (MQT) or launch and recovery qualification training (LRQT).

11.2.1.5. **Other.** See paragraph 11.1.1.4

11.2.2. **Training Sources.** Completion of IQT, a qualifying form 8, and either MQT or LRQT.

11.2.3.. **Implementation.** Entry into journeyman upgrade is accomplished after the individual completes BSOC and begins day 1 of initial qualification training.

11.3. **Craftsman 7-Level Training:**

11.3.1. **Specialty Qualification.** All 1U031 and 1U051 qualifications apply to the 1U071 requirements.

11.3.1.1, **Knowledge.** In addition to knowledge required for the 5-skill level and other qualifications as listed above, an individual must possess the aircrew management principles, knowledge, and supervisory skills necessary to supervise personnel, and operate and maintain SO equipment.

11.3.1.2. **Education.** To assume the grades of SSgt through MSgt, individuals must be graduates of the ALS and NCOA commensurate with rank and/or school availability. Reference AFI 36-2301 Developmental Education.

11.3.1.3. **Training.** The CSAF has approved a variance eliminating the requirement for in-residence 7-skill level training for all CEA career fields. However, minimum rank of SSgt and recommendation by the supervisor still applies.

11.3.1.4. **Experience.** Qualification in and possession of AFSC 1U051 is mandatory as a Sensor Operator Journeyman.

11.3.1.5.. **Other.** See paragraph 11.1.1.4.

11.3.2. **Training Sources.**

11.3.3. **Implementation.** Trainees selected for promotion to SSgt will be considered for 7-level the first day of the promotion cycle, (1 September each year). Exceptions includes Stripes for Exceptional Personnel (STEP) promotes retrainees, and out-of-cycle/supplemental promotions. Consider STEP promotes into 7-skill level upon the date of promotion to SSgt. Retrainees, SSgt and above, are considered for 7-skill level upon award of the 5-skill level. Personnel selected out-of-cycle for promotion to SSgt will be considered for 7-skill level the first day of the following month of announced promotion.

11.4. **Superintendent 9-Level Training**:

11.4.1. **Specialty Qualification.**

11.4.1.1.. **Knowledge.** In addition to knowledge required for the 7-skill level qualification, an individual must possess advanced skills and knowledge of concepts and principles in the effective leadership and management of assigned personnel and resources.

11.4.1.2.. **Education.** Completion of SNCOA, commensurate with rank and/or school availability. Additionally, award of the Community College of the Air Force (CCAF) Associate of Applied Science degree in this field is required.

11.4.1.3. **Training.** Must hold the rank of SMSgt and have supervisor's recommendation for award of the 9-skill level (RegAF only).

11.4.1.4. **Experience.** Qualification in and possession of AFSC 1U071. Also, experience in directing functions pertaining to SO activities. Experience in the management of aircrew operations and aircraft systems is mandatory. Additionally, experience is essential in the performance of supervisory and management functions.

11.4.1.5.. **Other.** See paragraph 11.1.1.4.

11.4.2., **Training Sources.**

11.4.3.. **Implementation.** Individual attains the rank of SMSgt and possesses the 7-skill level.

Section D - Resource Constraints

12. Purpose.

This section identifies known resource constraints that preclude optimal/desired training from being developed or conducted, including information such as cost and manpower. Narrative explanations of each resource constraint and an impact statement describing what effect each constraint has on training are included. Also included in this section are actions required, office of primary responsibility, and target completion dates. Resource constraints will be reviewed and updated at least annually.

13. Apprentice Level Training.

None identified.

14. Journeyman Level Training.

None identified.

15. Craftsman Level.

None identified.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

PHILIP P. LEONARD, CMSgt, USAF
Career Enlisted Aviator Career Field Manager
AF/A3TF, Total Force Aircrew Management

PART II
Section A - Specialty Training Standard (STS)

1. Implementation.

This STS will be used for technical training provided by AETC.

2. Purpose.

As prescribed in AFI 36-2201, Volume 5, and this STS:

2.1. Lists in column 1 of attachment 2, the tasks, knowledge, and technical references (TR) necessary for Airmen to perform in the 3- skill level AFSC in the Sensor Operator Career Field. Base these on an analysis of the duties listed in Air Force Enlisted Classification Directory.

2.2. Column 2 (3-skill level) shows formal training and correspondence course requirements as described in ETCA at web site https://etca.randolph.af.mil/ and the career knowledge provided by the correspondence course. There is no advanced course. There are no CDCs listed for this AFSC.

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

2.4. Utilized as a guide for development of promotion tests used in the Weighted Airmen Promotion System (WAPS). Senior NCOs with extensive practical experience in their career fields develop specialty Knowledge Tests (SKTs) at the AETC Studies and Analysis Squadron. The tests sample knowledge of STS subject matter areas are judged by test development team members and deemed most appropriate for promotion to higher grades. Questions are based on study references listed in the WAPS study catalog. Individual responsibilities are in AFMAN 36-2664.

3. Recommendations.

Report unsatisfactory performance of individual course graduates to 558th Fly Training Squadron, 330 H Street West Ste 1, Randolph AFB, TX 78150-4504. Please reference specific STS paragraphs when submitting recommendations.

3 Attachments:
1. Qualitative Requirements
2. STS (1U0X1)
3. CFETP Career Path Chart (1U0X1)

Section B - Course Objective List

4. Measurement.

Each objective is indicated as follows: **W** indicates task or subject knowledge measured using a written test, **PC** indicates required task performance measured with a performance progress check, and **PC/W** indicates separate measurement of both knowledge and performance elements using a written test and a performance progress check.

5. Standard.

The standard is 85 percent on written examinations. Standards for performance measurement are indicated in the objective and delineated on the individual progress checklist. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or part of the behavior until satisfactory performance is attained.

6. Proficiency Level.

Most task performance is taught to the "1a" proficiency level. Which means the students can do simple parts of the task, but needs to be told or shown how to do most of the task (extremely limited); or to a "2b" proficiency level, which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine the step-by-step procedures for doing the task.

7. Advanced Skills Course.

NOTE: There is currently no advanced course. This area is reserved.

Section C - Support Material

8. Support Materials.

NOTE: There are currently no support material requirements. This area is reserved.

Section D - Training Course Index

9. Purpose.

This section of the CFETP identifies training courses available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs.

Table 6 Air Force In-Residence Courses

COURSE NUMBER	COURSE TITLE	LOCATION
L3AQR1U011 01AB	Aircrew Fundamentals w/o Chamber Qualification	JBSA-Lackland, TX
BSOC	Basic Sensor Operator Course (BSOC)	JBSA-Randolph, TX

Table 7 Air Force Institute for Advanced Distributed Learning (AFIADL) Courses

COURSE NUMBER	COURSE TITLE	LOCATION
RESERVED	RESERVED	RESERVED

Section E - MAJCOM Unique Requirements

The following list of MAJCOM unique requirements is not all-inclusive; however, it covers the most frequently referenced areas.

Table 8 Sensor Operator Flying/Simulator Training

COURSE NUMBER	COURSE TITLE	LOCATION
MQ9FAM	MQ-9 Senior Leader Familiarization Training Course	Holloman AFB, NM; Creech AFB, NV; March AFB, CA; Syracuse AFB, NY
MQ9IUT	MQ-9 Instructor Upgrade Training Course	Holloman AFB, NM; Creech AFB, NV; March AFB, CA; Syracuse AFB, NY
MQ9 SLQTC	MQ-9 Senior Leadership Qualification Training (SLQTC)	Holloman AFB, NM; Creech AFB, NV; March AFB, CA; Syracuse AFB, NY
MQ-9IQT	MQ-9 Basic and Requalification Training Course (B/TX1)	Holloman AFB, NM; Creech AFB, NV; March AFB, CA; Syracuse AFB, NY
MQ-9 SO AIC	Sensor Operator Advanced Instructor Course	Nellis AFB, NV
432OGMQT	MQ-9 Mission Qualification Training	Creech AFB, NV; Ellsworth AFB, SD; Whiteman AFB, MO
MQ9PSOLRC	MQ-9 Launch/Recovery Training Course	Creech AFB, NV
MQ9LRIU	MQ-9 Launch and Recovery Instructor Upgrade	Creech AFB, NV
MQ9ISOUG	MQ-9 Instructor Sensor Operator Upgrade	Hurlburt Field, FL
MQ9SOMQT	MQ-9 Sensor Operator MCE Qualification Training	Hurlburt Field, FL
MQ9SOMQT	MQ-9 Sensor Operator Mission Qualification	Cannon AFB, NM
MQ-9 LR-IPISO	MQ-9 LR Instructor Pilot/Sensor Operator Upgrade Course	Cannon AFB, NM
MQ-9 LR-MQT	MQ-9 LR Pilot/Sensor Operator MQT Course	Cannon AFB, NM
RQ4SOBQT	RQ-4 Sensor Operator Basic Qualification Training	Beale AFB, CA; Grand Forks AFB, ND
RQ4ISOUG	RQ-4 Instructor Sensor Operator Upgrade Training Course	Beale AFB, CA; Grand Forks AFB, ND
AC130JSO	AC130J Sensor Operator Mission Qualification Upgrade Course	Hurlburt Field, FL
AC130JISO	AC130J Instructor Sensor Operator Upgrade Course	Hurlburt Field, FL
NOTE: Please check Education & Training Course Announcements for most updated Course Number and information: https://cs2.eis.af.mil/sites/app10-etca/SitePages/home.aspx#Home Current as of 2 March, 2020		

Table 9 Air Education and Training Command Courses

COURSE NUMBER	COURSE TITLE	LOCATION
L3AIRTXXXX 0B1A	Basic Instructor Course (BIC)	JBSA-Lackland, TX
E6AZU3S200 015	CDC Writer	CBT Course
E6AILTXXXX 011A	Principles of Instructional System Development	CBT Course
5ACC3S200-003	Academic Instructor Course (AIC)	JBSA-Randolph
393AQR1UOX1 00AB	Principles of Instruction (POI)	Multiple

Table 10 Unit Specific Courses

COURSE NUMBER	COURSE TITLE	LOCATION
Various	Evaluator Sensor Operator	Unit
Various	Advanced Strike Course	Unit
Various	Moving Target/Moving Target Engagement Training	Unit
Various	Air Commando Indoctrination	AFSOC Unit)s)

Section F - MAJCOM Unique Resource Requirements

10. Air National Guard (ANG).

10.1. **Purpose.** This section applies to all 1U0X1 personnel assigned to Air National Guard (ANG) units.
10.2. **Proficiency Training.**
10.2.1. Upon completion of the Initial Qualification course, ANG 1U0's require a minimum of 270 days to become Mission Ready (MR), and obtain operational proficiency as outlined in the most recent Ready Aircrew Program (RAP) Tasking Message/MDS Vol 1.
10.2.2. Combat Mission Ready (CMR).
10.2.2.1. CMR as defined in the Ready Aircrew Program (RAP) tasking message/MDS Vol 1, and proficiency training will include TDY travel to accomplish training not available at home station.
10.2.2.2. The number of days required for a member to attain CMR may be adjusted accordingly by the ANG CEA CFM as required to meet all necessary requirements identified in the MDS Vol 1 and applicable AFI's/supplements.
10.2.3. **Special Qualification Training.**
10.3.1. MQ-9 1UO's completing Launch and Recovery Qualification Training require a min of 90 days to become Mission Ready (MR), and obtain operational proficiency as outlined in the most recent Ready Aircrew Program (RAP) Tasking Message/MDS Vol 1.

Attachment 1
Qualitative Requirements

THIS BLOCK FOR IDENTIFICATION PURPOSES ONLY		
NAME OF TRAINEE		
PRINTED NAME *(Last, First Middle Initial)*	INITIALS *(Written)*	SSAN
PRINTED NAME OF CERTIFYING OFFICIAL AND WRITTEN INITIALS		
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I		

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 help only on hardest parts. (PARTIALLY PROFICIENT)
	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT)
**TASK KNOWLEDGE LEVELS	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)
	b	Can determine step-by-step procedures for doing the task. (PROCEDURES)
	c	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
	d	Can predict, isolate, and resolve problems about the task. (ADVANCED THEORY)
***SUBJECT KNOWLEDGE LEVELS	A	Can identify basic facts and terms about the subject. (FACTS)
	B	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)
	C	Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)

EXPLANATIONS

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

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

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

x This mark is used alone in course columns to show that training is required but not given due to limitations in resources.

Attachment 2
Tasks, Knowledge, and Technical References

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			3-Skill Level Course AFSC Technical Principles
1. AVIATION SAFETY PROGRAM			
AF Instructions	**Technical Orders**	**Miscellaneous**	
AFI 11-301 v1	T.O. -1	AFH 11-203 v2	
AFI 91-202	T.O. -34	JP 3-09.1	
AFI 91-204		AFTTP 3-3 MQ-9	
1.1. RPA Aviation Safety			A
1.2. Human Factors			A
1.3. LASER Hazards			A
1.4. Weapons			A
1.5. Weapon Systems / Mission Impact			A
2. SECURITY			
AF Instructions	**Technical Orders**	**Miscellaneous**	
AFI 10-701			
AFI 31-401			
AFI 1-1			
AFMAN 17-1302			
1.6. Physical Security			A
1.7. Operational Security (OPSEC)			A
1.8. Communication Security (COMSEC)			A
3. RPA SENSOR OPERATOR SPECIFIC FUNDAMENTALS			
AF Instructions	**Technical Orders**	**Miscellaneous**	
AFI 11-214	T.O. -1	AFTTP 3-3 MQ-9	
	T.O. -34		
3.1. Specific RPA Major Command (MAJCOM) Missions			A
3.2. Checklist usage			2b
3.2.1. Boldface Items			A
3.2.2. Emergency Procedures			A
4. RPA WEAPON SYSTEMS			
AF Instructions	**Technical Orders**	**Miscellaneous**	
	T.O. -1		
	T.O. -34		
4.1. RPA Aircraft			
4.1.2. MQ-9 Reaper			A
4.2. Ground Control Stations (GCS)			
4.2.1. Function of GCS			A
4.2.2. Types of GCS			A
4.2.3. GCS Equipment			A
4.3. RPA Control Data Links			
4.3.1. Beyond Line of Sight (BLOS) Operations			A
4.3.2. Line of Sight (LOS) Operations			A
4.3.3. Datalink Encryption			B

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			3-Skill Level Course
			AFSC Technical Principles
5. MULTI-SPECTRAL SYSTEMS			
AF Instructions	**Technical Orders**	**Miscellaneous**	
	T.O. -1	TOSD AAS-52 C/D	
		DAS-1A TMSD OPR	
		AFTTP 3-3 MQ-9	
5.1. General Sensor Theory			
5.1.1. Sensor Limitations			B
5.1.2. Electromagnetic Spectrum			A
5.2. RADAR			
5.2.1. Theory			A
5.2.2. Components			A
5.2.3. SAR			A
5.2.4. MTI			A
5.3. Infrared			
5.3.1. Theory			B
5.3.2. Components			B
5.4. Television/Optical			
5.4.1. Theory			B
5.4.2. Components			B
5.5. Fused Optics			
5.5.1. Theory			B
5.5.2. Components			B
5.6. RPA LASER			
5.6.1. Theory			B
5.6.2. Components			B
5.6.3. Marking Devices			B
6. GEOSPATIAL REFERENCE SYSTEMS			
AF Instructions	**Technical Orders**	**Miscellaneous**	
		JP 2-03	
		PHAK – Ch15	
		FM 3-25.26	
6.1. Types of Aviation Maps and Charts			B
6.2. Reference Systems			
6.2.1. Utilize Military Grid Reference System (MGRS)			2b
6.2.2. Utilize Latitude/Longitude (Lat/Long)			2b
6.2.3. Determine Bearing and Range			2b
6.2.4. Utilize Global Area Reference System			2b
6.3. Utilize Mission Software			2b

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			3-Skill Level Course
			AFSC Technical Principles
7. COMMUNICATION			
AF Instructions	**Technical Orders**	**Miscellaneous**	
AFI 17-221	AFTTP 3-1	ACP 121, 125	
	AFTTP(I) 3-2.27	AFTTP 3-2.77	
	AFTTP 3-3 MQ-9	CJCSM 3320.02C	
7.1. Radio Telephone Procedures			A
7.1.1. Perform Radio Communications and Crew Interaction			2b
7.2.1. Perform Methods of Calls			2b
7.3.1. Perform types of Calls			2b
7.4.1. Utilize Tactical Chat			2b
7.5. Radio Frequency Bands			A
7.6. Un-secure Communications			A
7.7. Secure Communications			A
7.8. Situational Awareness Datalinks			
7.8.1. Tactical Datalinks			A
7.8.2. Video Datalinks (VDL)			A
8. RPA CREW ACTIVITIES			
AF Instructions	**Technical Orders**	**Miscellaneous**	
	T.O. -1	AFTTP 3-3 MQ-9	
		AFTTP(I)3-2.64	
8.1. Mission Planning			2b
8.2.1. Perform Crew Briefings			2b
8.2.2. Determine Operational Risk Management (ORM)			1a
8.3. MCE Operations			A
8.4. LRE Operations			A
8.5. Handover Procedures			A
8.6. Lost Link Procedures			B
9. SENSOR AND TARGET OPTIMIZATION & DISPLAYS			
AF Instructions	**Technical Orders**	**Miscellaneous**	
	T.O. -1	AFTTP 3-3 MQ-9	
		AFTTP(I)3-2.64	
9.1. Sensor Optimization			B
9.2. Target Acquisition			
9.2.1. Acquisitions Techniques			2b
9.2.2. Determine Aircraft Orientation			2b
9.2.3. Determine Target Orientation			2b
9.2.4. Standoff Considerations			2b
9.3. Heads Up Display (HUD)			
9.3.1 Interpret HUD Data			2b

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			3-Skill Level Course
			AFSC Technical Principles
10. RPA EMPLOYMENT			
AF Instructions	**Technical Orders**	**Miscellaneous**	
AFDD 2/20	JP 2-01	AFTTP MQ-9	
AFDD 3-50	JP 3-52	AFTTP(I)3-2.64/2.31	
AFTTP 3-2.78	JP 3-60	JP 3-09.3	
	JP 2-0	JP 3-03	
		JP 3-50	
10.1. RPA Tasking			A
10.2. Time Sensitive Targets (TSTs)			A
10.3. F2T2EA Kill Chain			A
10.4. Airspace Control			
10.4.1. Controlling Agencies			A
10.4.2. Coordinate/De-conflict Airspace			2b
10.4.3. IFF/Transponder			A
10.5. Mission Sets			
10.5.1. Air Interdiction (AI)			B
10.5.2. Close Air Support (CAS)			B
10.5.3. Strike Coordination and Reconnaissance (SCAR)			B
10.5.4. Intelligence, Surveillance, and Reconnaissance (ISR)			
10.5.4.1. ISR Operations			B
10.5.4.2. General ISR C2 Structure			B
10.5.4.3. Support Cell (SOC and ROC)			B
10.5.4.4. ISR Planning and Exploitation			A
10.5.4.5. Perform Tactical Analysis			2b
10.5.5. Maritime Air Support (MAS)			A
10.5.6. Personnel Recovery (PR)			A
10.5.7. Humanitarian Assistance and Disaster Response Operations			A
10.5.8. Rules of Engagement (ROEs)			A
10.5.9. Law of Armed Conflict (LOAC)			A
10.6. Munitions			B
10.7. Threat Systems			
10.7.1. Electronic			A
10.7.2. Mechanical			A
10.7.3 Adversary Air			A
10.7.4. Adversary Ground			A
10.7.5. Threat Reduction			A

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			3-Skill Level Course
			AFSC Technical Principles
11. JOINT OPERATIONS/THEATER OPERATIONS			
AF Instructions	**Technical Orders**	**Miscellaneous**	
AFDD 1		JP 1	
AFDD 2		UCP 2011	
11.1. Joint Force Doctrine			A
11.2. USAF Doctrine			A
11.4. Unified Command Structure			A
11.5. Airborne Assets			A
11.6. Multi-Role Agencies			A
12. PRIME SIMULATOR			
AF Instructions	**Technical Orders**	**Miscellaneous**	
12.1. Crew Resource Management (CRM)			2b
12.2. Mission Execution			2b
13. AIRCREW CULTURE			
AF Instructions	**Technical Orders**	**Miscellaneous**	
13.1. Mentorship			A
13.2. Aircrew Heritage			A
13.3. Airmanship			A

REFERENCE LIST

The following references can be found at the *Air Force e-Publishing* webpage:

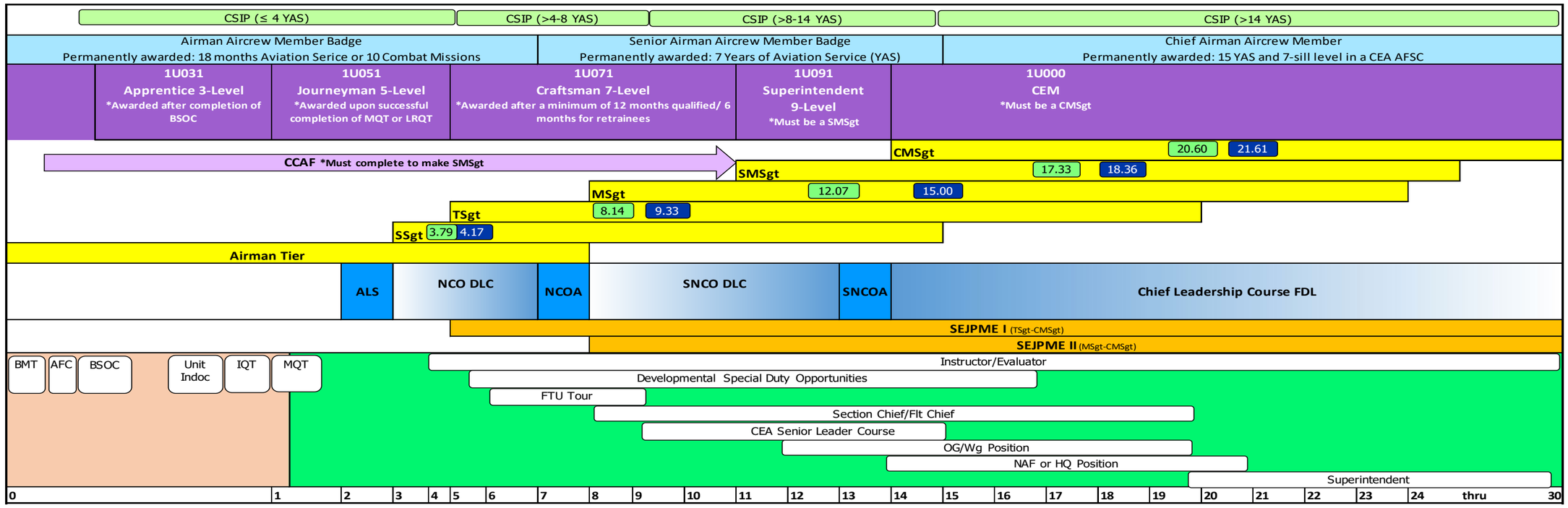
http://www.e- publishing.af.mil/
AFIMAN 11-202 Vol 1, AIRCREW TRAINING, 27 SEP 2019
AFI 11-202 Vol 2, AIRCREW STANDARDIZATION/EVALUATION PROGRAM, 06 Dec 2018
AFI 11-202 Vol 3, GENERAL FLIGHT RULES, 10 AUG 2016
AFI 11-401, AVIATION MANAGEMENT, 10 DEC 2010 (Guidance Memorandum 17 JAN 2020)
AFMAN 11-402, AVIATION AND PARACHUTIST SERVICE, AERONAUTICAL RATINGS AND AVIATION BADGES, 24 JAN 2019 (Guidance Memorandum 11 FEB 2020)
AFI 11-412, AIRCREW MANAGEMENT, 15 JAN 2019
AFI 36-2651, AIR FORCE TRAINING PROGRAM, 3 JAN 2019
AFI 48-123, MEDICAL EXAMINATIONS AND STANDARDS, 05 NOV 2013 (28 JAN 18 Changes)

The following reference can be found at the *Air Force Personnel Services* webpage:
http://ask.afpc.randolph.af.mil/

AIR FORCE ENLISTED CLASSIFICATION DIRECTORY (AFECD), updated quarterly – select "View Force management Programs" and search "AFECD".

The ***Education & Training Course Announcements (ETCA)*** can be found at webpage: https://etca.randolph.af.mil/

Attachment 3
Sensor Operator Career Path Chart
1U0



References:
AFI 11-401 Aviation Management
AFMAN 11-402 Aviation & Parachutist Service, Aeronautical Ratings, & Aviation Badges
AFI 36-2651 Air Force Training Program
AFI 36-2301 Developmental Education
AFI 36-2502 Enlisted Airman Promotion/Demotion Program
https://mypers.af.mil/

OPR: HQ USAF/A3 ACTF
POC: CMSgt Philip P. Leonard
02 March 2020

Legend:
Compensation *Gate months: cumulative, not consecutive
CEA Milestones
AFSC Skill Level
Promotions — AF Avg — AFSC Avg
PME
Training Progression — Career Progression
Years Of Service (not necessarily same as YAS)
NOTE: Career progression is typical, but not mandatory.
Each member's career may take shape in many different permutations