

AFSC 1A8X2

Airborne Intelligence, Surveillance, and Reconnaissance (ISR) Operator Specialty



CAREER FIELD EDUCATION AND TRAINING PLAN (CFETP)

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**AIRBORNE ISR OPERATOR SPECIALTY
AFSC 1A8X2
CAREER FIELD EDUCATION AND TRAINING PLAN**

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PART I

PREFACE

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education and training requirements, training support resources, and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and will instill rigor in all aspects of career field training. **NOTE:** Civilians occupying associated positions will use Part II to support duty position qualification training.

2. The CFETP consists of two parts; supervisors plan, manage, and control training within the specialty using both parts of the plan.

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

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, wartime course and core task and correspondence course requirements. **Section B:** contains the course objective list and training standards which supervisors will use to determine if airmen have satisfied training requirements. **Section C:** identifies available support materials. An example is a Qualification Training Package (QTP), which may be developed to support proficiency training. **Section D:** identifies a training course index supervisors can use to determine resources available to support training. Included here are both mandatory and optional courses. **Section E:** identifies MAJCOM unique training requirements supervisors can use to determine additional training required for the associated qualification needs. At unit level, supervisors, trainers, Command Language Program Managers (CLPMs), Language Mentors, and Subject Matter Experts (SMEs) will use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

3. Using guidance provided in the CFETP will ensure individuals in this specialty receive effective and efficient training at the appropriate points in their careers. This plan will enable us to train today's work force for tomorrow's jobs.

4. Air Force members are encouraged to query available training opportunities by utilizing the Air Education and Training Command (AETC) Education and Training Course Announcement website at:
<https://www.my.af.mil/etccourses/>

ABBREVIATIONS/TERMS EXPLAINED

Advanced Degree Programs. Programs such as NIU and AFIT that prepare Intelligence Community and Combatant Command Intelligence professionals, both military and civilian, through education and research, to work with skill and dedication in identifying and effectively integrating foreign, military, and domestic intelligence in defense of the homeland and of U.S. interests abroad.

Advanced Training (AT). Formal course that 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.

Aircrew Fundamentals Course (AFC). A course designed to screen candidates for the rigors of enlisted aircrew duties prior to expending expensive follow-on training resources.

Air Force Institute of Technology (AFIT). The Air Force's graduate school of engineering and management as well as its institution for technical professional continuing education. A component of Air University and Air Education and Training Command, AFIT provides defense-focused graduate and professional continuing education and research to sustain the technological supremacy of America's air and space forces. AFIT accomplishes its mission through three resident schools: the Graduate School of Engineering and Management, the School of Systems and Logistics, and the Civil Engineer and Services School. (REF <http://www.afit.edu/about.cfm>).

Air Force Job Qualification Standard/Command Job Qualification Standard (AFJQS/CJQS). Training documents approved by the AFCFM for a particular job type or duty position within an AFS. (REF AFI 36-2201)

Air Force Specialty (AFS). A group of duty positions that require common qualifications identified by a title and code. Each AFS is assigned an AFS Code (AFSC), to identify a specific career field and qualification level for Air Force officers and enlisted personnel. The first two digits of an AFSC (1A) identify the career field and the first three digits of an AFSC (1A8) identify the AFS. A full AFSC identifies a specific duty position within the AFS.

Air Force Specialty Manager (AFSM). AFS expert on the HQ USAF staff responsible for overseeing all aspects of a particular Air Force Specialty. Coordinates with MAJCOM functional and training managers, technical training center personnel, Career Development Course writers and subject matter experts to provide career path development and identify Career Field Education and Training Plan training tasks items to meet national, tactical and Air Force training requirements. Other responsibilities include reviewing AFS manpower utilization, managing AFS classification guidance, and overall status of the health of their particular AFS.

Basic Aircraft Qualification (BAQ). An aircrew member who has satisfactorily completed initial qualification training and is qualified to perform aircrew duties in the unit aircraft.

Basic Mission Capable (BMC). An aircrew member who has satisfactorily completed mission qualification training, does not maintain MR/CMR status, but maintains familiarization in the command or unit operational mission.

Career Development Course (CDC). A self-paced, correspondence course published to provide the information necessary to satisfy the career knowledge component of OJT. These courses are developed from references identified in the CFETP correlating with mandatory knowledge items listed in the Air Force Enlisted Classification Directory. CDCs will contain information on basic principles, techniques and procedures common to an AFS. They do not contain information on specific equipment or tasks unless best illustrating a procedure or technique having utility to the entire AFSC. (Ref: AFI 36-2201).

Career Enlisted Aviator (CEA). An individual with a primary AFSC within the 1AXXX Aircrew Operations career field.

Chief Enlisted Manager (CEM). CMSgts are assigned a chief enlisted manager code upon selection to CMSgt and may be selected to fill leadership or managerial positions in a variety of duties not prohibited by law or directive. (REF AFI 36-2618)

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. (REF AFI 36-2201).

CEA Center of Excellence (CoE). The cornerstone of all career enlisted aviator training, conducted at Lackland AFB, TX. Provides undergraduate and initial skills training through the award of the 1-skill level.

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.

Continuation Training (CT). Training for aircrew members already qualified in their respective aircrew position to maintain their assigned level of proficiency. CT is designed to progressively improve basic aircraft qualification, combat mission ready, basic mission capable, and aircrew members' ability to perform the unit's mission.

Core Task. Tasks the AFCFM identify as minimum qualification requirements for everyone within an AFSC, regardless of duty position. Core tasks may be specified for a particular skill level or in general across the AFSC. Guidance for using core tasks can be found in the applicable CFETP narrative. (REF AFI 36-2201)

Course Objective Lists (COL). A publication, derived from the initial skills course training standard, that identifies the task and knowledge requirements, and respective standards provided to achieve a 3-skill level in this career field. Supervisors use the COL to conduct graduate evaluations in accordance with AFI 36-2201, Volume 3, *Air Force Training Program On-the-Job Training Administration*.

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.

Cryptologic Training Advisory Group (CTAG). An authoritative group composed of key service and National Security Agency representatives, subject matter experts, course managers and service training commands that establishes, reviews, revalidates and revises cryptologic training curricula.

Cryptologic Training System Training Standard (CTSTS). Created for each Cryptologic AFS by the CTAG to define the minimum training standards for a given Cryptologic specialty. The CTSTS standardizes training across the military services and DoD agencies.

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

Exportable Training. Additional training via computer assisted, paper text, interactive video, or other necessary means to supplement training. (REF AFI 36-2201)

Field Evaluation Questionnaire (FEQ). FEQs are designed to solicit feedback from supervisors and/or graduates to determine if graduates were trained as specified in the training standard. (REF AETCI 36-2201)

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

Formal Training Unit (FTU). Unit tasked with training weapon system specific knowledge and skills necessary to execute a mission.

Initial Qualification Training (IQT). Training necessary to initially qualify a crewmember in a basic crew position and flying duties without regard to the unit's operational mission.

Initial Skills Training. A formal school course that results in an AFSC 3-skill level award for enlisted or mandatory training for upgrade to qualified officers. (REF AFI 36-2201)

Instructional System Development (ISD). Deliberate and orderly, but flexible, process for planning, developing, implementing, and managing instructional systems. It ensures that personnel are taught in a cost-efficient way the knowledge, skills, and attitudes essential for successful job performance. (REF AFMAN 36-2234)

Lead Command. The lead entity for this specialty is AF ISR Agency for personnel and ACC/AFSOC for weapon systems. They establish standards, tasks, and formal training requirements and are responsible for updating training requirements and coordinating changes to the CFETP.

MAJCOM Functional Manager (MFM). Enlisted MFMs are SNCOs who manage designated enlisted 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 command training and personnel issues across their MAJCOM staff and with AFCFMs. They disseminate Air Force and career field policies and program requirements affecting their career field throughout the MAJCOM. They coordinate with the Air Force Personnel Center, through their MAJCOM/A1, to distribute personnel throughout the MAJCOM to ensure proper command prioritization of allocated/assigned personnel resources. They provide functional and subject matter expertise to Air Education and Training Command Training Managers to develop new or modify/improve existing training programs. (REF AFI 36-2618).

Major Weapons Systems (MWS). For the purpose of this CFETP, MWS consists of all applicable airborne platforms with a crew complement including at least one 1A8X2.

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., EC-130, E-3B, RC-12).

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.

Mission Qualification Training (MQT). Training necessary to qualify a crewmember in a specific aircrew position to perform the command's or unit's operational mission. MQT completion is a prerequisite for mission ready status.

National Intelligence University (NIU). DoD's academic institution of higher learning dedicated to the pursuit of intelligence education and research, and academic outreach in the field of intelligence. NDIC offers both part and full-time undergraduate and graduate degree programs, to enlisted, officer and civilian personnel. For more information go to www.dia.mil/college.

Occupational Analysis Report (OAR). Detailed report showing the results of an occupational survey of tasks performed within a particular AFS. The Microsoft Excel®-based product includes narrative analysis and data formatted into tables that can be easily sorted by the user to quickly identify and highlight data tailored to user needs. The OAR is made available to OA customers, such as the AFCFM and MFMs, the technical training community, and other interested parties. Access can be obtained via the AETC Occupational Analysis Division's Community of Practice (CoP): <https://afkm.wpafb.af.mil/OccupationalAnalysis>.

On-the-Job Training (OJT). Hands-on, "over-the-shoulder" training conducted to certify personnel in both upgrade (skill level award) and job qualification (position certification training). (REF AFI 36-2201)

Qualification Training (QT). Hands-on performance training designed to qualify an airman in a specific position. This training occurs both during and after upgrade training to maintain up-to-date qualifications. (REF AFI 36-2201)

Quality of Analysis (Q of A) Program. The General Defense Intelligence Program funds this program to improve the quality of DoD intelligence analysis and help train qualified intelligence professionals by increasing their depth of analytical, area, and functional expertise. (REF AFI 14-106)

Resource Constraints. Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude desired training from being delivered. (REF AFI 36-2201)

Specialty Training Requirements Team (STRT). Convened prior to U&TW to conduct research, develop training requirements, recommend delivery methods, and to determine if full fledged U&TW is required. (REF: AFI 36-2201)

Specialty Training Standard (STS). An Air Force publication that describes an Air Force specialty in terms of tasks and knowledge that an airman in that specialty may be expected to perform or to know on the job. Also identifies the training provided to achieve a 3-, 5-, or 7-skill level within an enlisted AFS. 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. (REF AFI 36-2201).

Standard. An exact value, a physical entity, or an abstract concept, established and defined by authority, custom, or common consent to serve as a reference, model, or rule in measuring quantities or qualities, establishing practices or procedures, or evaluating results. A standard is a fixed quantity or quality. (REF AFI 36-2201).

Supplemental Training. Training toward a portion of an AFS without change by AFSC. Formal training on new equipment, methods and technology that are not suited for on-the-job training. (Ref: AFI 36-2201)

Task Certifier. See Certification Official. (Ref: AFI 36-2201)

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

Trainer. A trained and qualified person who teaches personnel to perform specific tasks through OJT methods. Also, equipment that the trainer uses to teach personnel specified tasks. (Ref: AFI 36-2201)

Upgrade Training (UGT). Training that leads to the award of a higher skill level in an Air Force Specialty.

Utilization and Training Workshop (U&TW). A forum to determine education and training requirements by bringing together the expertise to establish the most effective mix of formal and on-the-job training for each AFS skill level. Also used to create or revise training standards, set responsibilities for providing training and to ensure the validity and viability of the AFS training. (Ref: AFI 36-2201)

Wartime Tasks. Those tasks that must be taught when courses are accelerated in a wartime environment. In response to a wartime scenario, these tasks will be taught in the 3-level course in a streamlined training environment. These tasks are only for those career fields that still need them applied to their schoolhouse tasks. (REF AFI 36-2201)

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.

Section A - General Information

1. Purpose. This CFETP provides the information necessary for AFCFM, MFM, commanders, training managers, supervisors and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. This plan outlines the training that individuals in this AFS should receive in order to develop and progress throughout their career. This plan identifies initial skills, upgrade, qualification, advanced and proficiency training. Initial skills training is the AFS specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. Normally, this training is conducted by AETC at one of the technical training centers. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 3-, 5-, 7-, 9-skill level. Qualification training is actual hands-on task performance training designed to qualify an Airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills and knowledge required to do the job. Advanced training is formal specialty training used for selected airmen. Proficiency training is additional training; in-residence, exportable advanced training courses, or on-the-job training provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade. The CFETP also serves the following purposes:

- 1.1.** Serves as a management tool to plan, manage, conduct, and evaluate a career field training program. Also, it is used to help supervisors identify training at the appropriate point in an individual's career.
- 1.2.** Identifies task and knowledge training requirements for each skill level in the specialty and recommends education and training throughout each phase of an individual's career.
- 1.3.** Lists training courses available in the specialty, identifies sources of training, and the training delivery method.
- 1.4.** Identifies major resource constraints that impact full implementation of the desired career field training process.

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

- 2.1.** AETC training personnel will develop or revise formal resident, non-resident, field and exportable training based upon requirements established by the users and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.
- 2.2.** MFMs will ensure their training programs complement the CFETP mandatory initial, upgrade, and proficiency requirements. OJT, resident training, and contract training or exportable courses can satisfy identified requirements. MAJCOM-developed training used to support this AFSC must be identified for inclusion into the plan.
- 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 AFSC 1AX career fields are exempt from maintaining OJT Training Folders (AF Form 623 *Individual Training Record Folder*). All training not documented in Flight Evaluation Folder (FEF) will be documented in each Airman's six-part folder as follows:

- Part 1: CFETP/STS
- Part 2: Certifications
- Part 3: ISR Mission skills training
- Part 4: ISR Mission skills certifications
- Part 5: Waivers
- Part 6: Narrative Remarks

All training is certified via AF Form 8, *Certificate of Aircrew Qualification*, by trained evaluators. Certification of the AF Form 8 eliminates the requirement to document STS items in this CFETP.

3. Coordination and Approval. The AFCFM is the approval authority. Also, the AFCFM will initiate an annual review of this document to ensure currency and accuracy. MAJCOM representatives and AETC training personnel will identify and coordinate on the career field training requirements. Using the list of courses in Part II, they will eliminate duplicate training.

Section B - Career Progression and Information

4. Specialty Description

4.1. Specialty Summary. Flies as primary aircrew onboard a wide variety of aircraft to operate, evaluate and manage airborne ISR information and related ground processing systems. Performs identification, acquisition, recording, analysis and reporting of assigned ISR tasks. Provides ISR threat warning support and interfaces with other units. Performs and assists with mission planning. Maintains assigned publications and currency items. Participates in theater and tactical-level ISR coordination networks. Processes, analyzes, and disseminates ISR information obtained from onboard sensors during missions in progress. Related DoD Occupational Subgroups: 123100, 123200, and 155600.

4.2. Duties and Responsibilities.

4.2.1 Process intelligence information in an airborne environment. Operates assigned intelligence systems and mission equipment. Uses operator workstations, graphical displays, recording devices and related equipment. Fields and operates sophisticated computerized radio receiver suites on various strategic and tactical ISR platforms. Conducts environmental surveys of radio frequency spectrum. Annotates electromagnetic events, measures parameters and compares results to previously catalogued signals to determine likely emitter source. Operates direction finding equipment. Analyzes structure and content of machine-based communications. Digitally archives key events for follow-on processing. Extracts essential elements of information for reportable significance. Disseminates threat warning information to affected entities via established channels. Maintains logs to document mission results. Prepares in-flight and post-mission reports.

4.2.2. Provide ISR information. Compares sensor data with in-flight ISR data and database files. Participates in mission planning and provides pre-mission inputs to maximize mission success. Uses coordinate reference systems. Coordinates mission profile requirements. Records special interest mission information. Understands status of mission aircraft, assigned target sets and air tasking order information.

4.2.3. Provides threat warning and actionable intelligence to customers as required. Achieves and maintains situational awareness of impending/ongoing air, ground and maritime combat operations. Employs intelligence information systems to satisfy air, ground, and maritime force intelligence and threat warning requirements. Provides threat warning information to aircrews and other agencies. Coordinates with airborne, ground, and maritime agencies to distribute and relay operational threat and identification data. Transmits identification and other mission information. Knowledgeable of U.S. and allied operations such as interception, interdiction, Close Air Support (CAS), Combat Search and Rescue (CSAR), Combat Air Patrol (CAP), reconnaissance, Offensive or Defensive Counter Air (OCA/DCA), Suppression of Enemy Air Defenses (SEAD), and Special Operations Forces (SOF).

4.2.4. Manage mission activities. Manages standardization, qualification, reports, records, and other requirements. Ensures accuracy, completeness, format, and compliance with current directives and mission system performance engineering preventive maintenance programs, and aircrew procedures.

4.2.5. Perform aircrew duties. Demonstrates and maintains proficiency in emergency equipment use and procedures, and egress. Performs pre-flight, through-flight, and post-flight inspections. Operates aircraft systems and equipment, such as electrical, interphone, door, and exits. Performs preventive maintenance on mission equipment. Ensures equipment and resources are externally clean, functional, and free from safety hazard. Reports malfunctions and observations. Supervises loading and off-loading of classified material and personal aircrew gear. Applies restraint devices, such as straps and nets, to prevent shifting during flight. Ensures access to escape exits.

4.2.6. Plan and organize mission conduct. Determines mission priorities. Adheres to Communication Security (COMSEC) procedures. Resolves operational and technical problems. Ensures crew complement and qualifications, equipment status, and operating efficiency are adequate to meet mission objectives.

5. Skill/Career Progression.

5.1 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 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 individuals receive viable training at the appropriate points in their career. The following narrative and the AFSC 1A8X2 career field flow charts identify the training

career path. They define the training required in an individual's career. **Note:** Air Reserve Component (ARC) personnel will follow appropriate ARC skill/career progression requirements in conjunction with CFETP requirements.

5.2. Apprentice (3) Level. Meeting mandatory requirements listed in the AFECD specialty description, completion of the Aircrew Fundamentals Course (L3AQR1A812 01AA), Apprentice Airborne Intelligence, Surveillance, and Reconnaissance Operator (X3ABR1A832 0A1A), Airborne Intelligence, Surveillance, as well as a designated Airborne ISR Operator Reconnaissance Operator Fundamentals (X3AQR1A832 00AA) course is mandatory. 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 1A832. Successful completion of SERE training shall be accomplished prior to a (3) Level Airman or cross-trainee NCO entrance into a Formal Training Unit.

5.3. Journeyman (5) Level. Upgrade training to the 5-skill level in this specialty consists of tasks and knowledge training provided in Career Development Course (CDC) 1NX, and 1A852. Individuals should be considered for crew position upgrade training or intermediate and advanced skills training at this time. Meeting mandatory requirements listed in the AFECD specialty description, individuals must be recommended by their supervisors and minimum 12 months UGT. Individuals in retraining status are subject to the same training requirements and a minimum 9 months in UGT. Upon completion of the 3-level resident course, and upon arrival at the Flying Formal Training Unit, trainees will be entered into 5-skill level upgrade training (TSC B). Career development courses (CDCs) should not be ordered until completion of Flying Training Course and arrival at first permanent duty station.

5.4. Craftsman (7) Level. Upgrade training to the 7-skill level in this specialty consists of holding at least the grade of SSgt and 12 months of experience, meeting mandatory requirements listed in the AFECD specialty qualifications. Individuals should be considered for further crew position upgrades or cross flow to other weapon systems at this time. Individuals must be recommended by their supervisors. Individuals in retraining status are subject to the same training requirements and a minimum 6 months in UGT.

5.5. Superintendent (9) Level. Upgrade training to the 9-skill level in this specialty consists of holding the grade of SMSgt and having supervisor's recommendation. Must meet mandatory requirements listed in the AFECD specialty description. In residence graduation from the Senior Enlisted ISR Master Skills Course is highly encouraged for all senior level intelligence professionals.

5.6. Aircrew Member Badge. The aircrew wings are a mandatory uniform item for the 1A8X2 AFSC for Airmen graduating from the 3-level (1A832) awarding course. Although aircrew wings are typically presented to Airmen graduating from the Aircrew Fundamentals Course (1A812), these wings are only authorized for wear after graduating from the 3-level awarding course. Wear and permanent awarding requirements of the Basic/Senior/Chief Aircrew Member Badge will be IAW AFI 11-402 *Aviation and Parachutist Service, Aeronautical Ratings and Badges*. Failure to complete IQT is authority for supervisors to recommend revocation of wear of the aircrew member badge.

5.7. Intelligence Occupational Badge. 1A8XX Airmen are authorized to optionally wear the basic badge upon award of the 3-skill level and senior badge upon award of the 7-skill level. 1A8XX Airmen are authorized to optionally wear the master badge as a Master Sergeant (E-7) or above with five years in the specialty from award of the 1A8XX AFS. Chief Master Sergeants (E-9) cross-flowed into 1A800 are authorized to optionally wear the basic badge upon award of the AFS, senior badge after one year and master badge after five years.

6. Training Decisions. The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Airborne ISR 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. The STS was changed to include Aircrew Fundamentals Course and the Intelligence Fundamentals Course to align common core training among all 1AXXX and 1NXXX AFSCs.

6.2. Five Level Upgrade Training. The Intelligence Fundamentals 1NX51 CDC was added as a pre-requisite volume prior to starting the AFSC 1A852 CDC. Completion of all CDC sets provides required training for upgrade in the Airborne ISR Operator- related positions.

6.3. Seven Level Upgrade Training. The CSAF has approved a variance, eliminating the requirement for in-residence 7-level training for all 1AXXX (Aircrew Operations Career Field) personnel.

6.4. Cryptologic Training. The National Cryptologic School (NCS), run by NSA offers a variety of in-residence, exportable, self-paced, or distance learning courses. These courses provide training across a broad spectrum of topics. Local training managers maintain information on course listings.

6.5. Intern Programs. NSA offers various intern programs for Airborne ISR Operators. While the primary purpose of these intern programs is to develop airborne ISR analyst skills with broad intelligence skills, individuals applying for these programs are still required to meet all flying gates.

7. Community College of the Air Force (CCAF). Enrollment in CCAF occurs upon completion of Basic Military Training. CCAF provides the opportunity to obtain an Associate in Applied Sciences (AAS) Degree. Enlisted members attending Army, Navy, and or DoD initial or advanced training do not receive resident credit for these courses since these schools are not part of the CCAF system. However, the college awards proficiency credit to Air Force enlisted members completing these courses. In addition to its associate degree program, CCAF offers the following:

7.1. Occupational Instructor Certification. Upon completion of instructor qualification training, consisting of the instructor methods course and supervised practice teaching, CCAF instructors who possess an AAS degree or higher may be nominated by their school commander/commandant for certification as an occupational instructor.

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. Degree Requirements: All Airmen are automatically entered into the CCAF Associate in Applied Science degree program. For award of this degree, Airmen must hold a 5-skill level and complete the following requirements:

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

7.4.1 The Intelligence Studies and Technology (9INZ) program is the specific CCAF Associate in Applied Science degree program that applies to 1A8X2. Paragraphs 7.4.2 – 7.4.6 detail the various areas that can be used to satisfy the subject area semester hour requirements listed in paragraph 7.4. The Intelligence Studies and Technology program is open to multiple specialties including 1A8XX, 1NXXX, 8D000 and 9L000, therefore areas that might not apply to 1A8X2 are included in the listings.

7.4.2. Technical Education (24 Semester Hours): Twenty-four semester hours are required to fulfill the technical education requirement. 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 by the Academic Programs Division at CCAF.

7.4.2.1. Technical Core (12-24 Semester Hours):

Technical Core Area	Max Semester Hours
Airborne Communications Systems	9
Broadcast Communication	24
CCAF Internship	18
Communications Analysis and Reporting	24
Cryptanalysis	12
Foreign Technical Language/Area Studies	18
Imagery Analysis	24

Introduction to Cartography	9
Photogrammetry	9

7.4.2.2. Technical Electives (0-12 Semester Hours):

Technical Electives Area	Max Semester Hours
Aerial Photography	6
Aeronautics	3
College Algebra or higher-level Mathematics	3
Communications System Operations	6
Computer Science	6
Intelligence Collection Management	6
International Studies	9
Interviewing	3
Principles of Communications	9
Principles of Electronics	6
Principles of Radar	6
Survival Training	4

7.4.3. Leadership, Management, and Military Studies (6 Semester Hours): The leadership, management and military studies (LMMS) requirement may be satisfied by applying professional military education, civilian courses accepted in transfer and/or by testing credit. However, the preferred method of completing leadership, management and military studies is through attending an airman leadership school, the NCO academy and/or the Air Force Senior NCO Academy.

7.4.4. Physical Education (4 Semester Hours): Completing basic military training satisfies the 4-semester-hour physical education requirement. Civilian courses do not apply to this requirement.

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

General Education Subject/Course	Semester Hours
Oral Communication (speech)	3
Written Communication (English composition)	3
Mathematics (intermediate algebra or college-level mathematics)	3
Social Science (anthropology, archaeology, economics, geography, government, history, political science, psychology and sociology)	3
Humanities (Courses in fine arts (criticism, appreciation, historical significance), foreign language, literature, philosophy and religion)	3

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

7.5. Air University Associate to Baccalaureate Cooperative (AU ABC). The AU ABC initiative establishes partnerships between the Air Force and accredited civilian higher education institutions to offer baccalaureate degree opportunities via distance learning. AU ABC links Airmen who have completed associate degrees to military friendly baccalaureate programs. AU ABC applies CCAF associate degree credit towards baccalaureate degrees and requires participants to complete no more than 60 semester hours after having earned an associate in applied science degree.

7.6. 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. Career Field Path.

Education and Training Requirements	GRADE REQUIREMENTS				
	Rank	Earliest Sew-on	Air Force Average	1A8X2 Average	High Year of Tenure (HYT)
Basic Military Training School (BMTS)	AB				
Apprentice Technical School (3-Skill Level)	Amn	6 months			
Upgrade To Journeyman (5-Skill Level) - Minimum 12 months on-the-job training - Minimum 9 months on-the-job training for retrainees - Complete appropriate CDC	A1C SrA	16 months 28 months	3 years	3 Years	8 years
Airman Leadership School (ALS) - Must be a SrA with 48 months time in service or be a SSgt selectee (ARC: Must be a SrA with 42 months time in service to accomplish ALS by correspondence) - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only)					
Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt - 12 months OJT - 6 months OJT for retrainees	SSgt	3 years	4.7 years	4.7 Years	15 years
Noncommissioned Officer Academy (NCOA) - Must be a TSgt or TSgt selectee - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only) - Resident or correspondence graduation is a prerequisite for MSgt sew-on (ARC Only)	TSgt	5 years	9.5 years	9.5 Years	20 years
USAF Senior NCO Academy (SNCOA) - Must be a CMSgt selectee, SMSgt, SMSgt selectee, or a MSgt selected to attend - Resident graduation is a prerequisite for CMSgt sew-on (Active Duty Only) - Resident or correspondence graduation is a prerequisite for SMSgt sew-on (ARC Only)	MSgt	8 years	14.8 years	14.8 Years	24 years
Upgrade to Superintendent (9-Skill level) - Minimum rank of SMSgt.	SMSgt	11 years	20.5 years	20.5 years	26 years
Chief Enlisted Manager (CEM) - Minimum rank of CMSgt - Completed SNCO Academy (Active Duty Only) - Chief Leadership Course (CLC)	CMSgt	14 years	23.3 years	23.3 years	30 years

Data current as of January 2012

Figure 8-1. Enlisted Education and Training Path
Note: Does not reflect ARC career progression guidelines

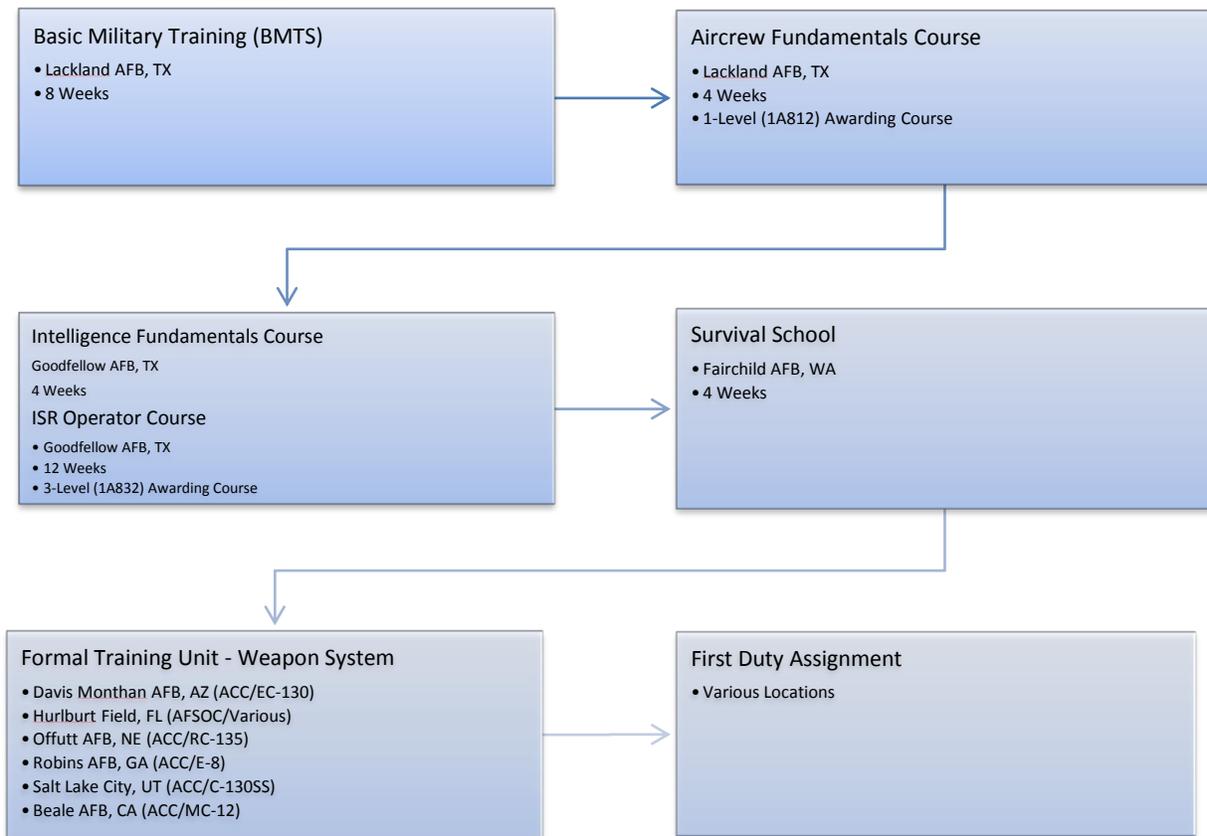


Figure 8-2. 1A8X2 Initial Skills Training Pipeline

8.1. The flow outlined in figure 2 (above) represents the formal training courses required for personnel entering and becoming fully qualified in the Airborne ISR Operator Specialty. The locations, course lengths, and titles are subject to change. Changes will be updated in the Education Training Course Announcement by the course owner.

8.2. The course flow has been developed and agreed upon by the MAJCOM functional managers to minimize days students are awaiting training and to ensure survival training is received prior to Initial Qualification Training, minimizing the impact of not having the prerequisites completed before entering weapons system training.

1A8X2 Airborne ISR Operator							
	Apprentice	Journeyman	Craftsmen		Superintendent		CEM
Rank	AB, Amn, A1C 	SrA 	SSgt 	TSgt 	MSgt 	SMSgt 	CMSgt 
Badges/Wings	Basic Aircrew Wings AFI 11-402  Basic Intel Badge AFI 36-2923 		Senior Aircrew Wings - AFI 11-402  Senior Intel Badge – AFI 36-2923 		Master Aircrew Wings – AFI 11-402  Master Intel Badge – AFI 36-2923 		
PME		Airmen Leadership School -SSgt Select or SrA with 48 months TIS -Required to sew on SSgt		NCO Academy -TSgt or Select -Required to sew on MSgt	AF or Joint Senior NCO Academy -MSgt or Select for Non-resident -MSgt or SMSgt for Resident -Required to sew on CMSgt (Active Duty only)		Leadership Development Program Gettysburg Leadership Experience
Upgrade Training	3-Level 1A832 -Awarded upon graduation from Initial Skills Pipeline	5-Level 1A852 -12 months UGT, starts at FTU (retrainee-9 mo) -CDC enrollment at Flying Unit -Supervisor recommends	7-Level 1A872 -Minimum rank of SSgt -UGT: 12 months/Retrainees-6 months			9-Level 1A890	CEM 1A800
Professional Development	CCAF – Community College of the Air Force Associates Degree		MECCAP – Middle Enlisted Cryptologic Career Advancement Program (NSA, 3 years) NSA National Cryptologic School – various courses available		SEIMSC – <i>Senior Enlisted Intelligence Management Skills Course</i>	BSI – Bachelor or Science in Intelligence (National Intelligence University-NIU) PGIP – Post-Graduate Intelligence Program (NIU)	
Jobs/ Opportunities	Initial Weapon System Training - Formal Training Unit. - E-8, EC-130, EC-130H, MC-12, RC-135		Additional Weapon System Training - Formal Training Unit. - E-8, EC-130, EC-130H, MC-12, RC-135 Advanced Weapon System Qualification -Instructor, Evaluator, etc.		Training -AETC Instructor	Staff Tour -HQ USAF -MAJCOM/FOA -NAF -Wing -Group	Management -Career Field Manager -MAJCOM Functional Manager - -Wing/Group/Squadron Superintendent

Figure 8.3: 1A8X2 Career Development Path

Note: Options listed in the career development path are not all-inclusive and are subject to change and do not reflect the ARC guidelines.

Location	CMS	SMS	MSG	TSG	SSG	SRA	A1C	Student
Pentagon, DC	X	X						
Beale AFB, CA	X	X	X	X	X	X	X	X
Buckley AFB, CO					X			
Cannon AFB, NM		X	X	X	X	X	X	
Corry Station, FL					X			X
Davis-Monthan AFB, AZ	X	X	X	X	X	X	X	X
Fort Gordon, GA					X			
Fort Meade, MD			X	X	X			
Goodfellow AFB, TX			X	X	X	X		X
Hurlburt Field, FL	X	X	X	X	X	X	X	X
Kadena AB, Japan	X	X	X	X	X	X	X	
Kunia, HI					X			
Lackland AFB, TX		X	X	X	X			
Langley AFB, VA	X		X	X				
Menwith Hill Station, UK				X	X			
Misawa AB, JA					X	X		
Offutt AFB, NE	X	X	X	X	X	X	X	X
RAF Mildenhall, UK	X	X	X	X	X	X	X	
Randolph AFB, TX		X						
Robins AFB, GA			X	X	X	X	X	X
Salt Lake City, UT			X					
NOTE: Data current as of Jun 2012								

Figure 8-4. Assignment Locations

NOTE: The authorizations listed above are subject to change without notice. Crewmembers interested in assignments to locations listed should consult their MAJCOM functional manager or the AFPC resource manager for more detailed information about requirement for a specific location.

Section C - Skill Level Training Requirements

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

10. Specialty Qualification.

10.1. Apprentice Level Training:

10.1.1. Specialty Qualification.

10.1.1.1. Knowledge. Knowledge is mandatory of: aircraft emergency equipment and procedures; ISR operations and related Cryptologic support to national agencies, service Cryptologic elements and theater elements; joint service relationships and operations concepts; radio propagation and modulation theory; radio communications networks, operations, and techniques; collection and processing procedures; signals and traffic analysis techniques; tasking strategies; reporting concepts, formats and procedures; mission planning and management; basic computer and electronic equipment operations; and methods for handling, distributing and safeguarding information.

10.1.1.2. Education. Completion of high school or having a general education development (GED) equivalency is mandatory for entry into this AFSC. Also, completion of courses in mathematics, keyboarding, and computers is desirable.

10.1.1.3. Training. Completion of the Aircrew Fundamentals Course (L3AQR1A812 01AA), Apprentice Airborne Intelligence, Surveillance, and Reconnaissance Operator (X3ABR1A832 0A1A), Airborne Intelligence, Surveillance, as well as a designated Airborne ISR Operator Reconnaissance Operator Fundamentals (X3AQR1A832 00AA) course is mandatory. Completion of the Airborne ISR Operator Course is mandatory for award of the 3-skill level AFSC.

10.1.1.4. Experience. Not applicable.

10.1.1.5. Other. Physical qualification for aircrew duty according to AFI 48-123, Volume 3, *Medical Examinations and Standards Volume 3 – Flying and Special Operational Duty*, Flying Class III medical standards for entry, award, and retention of this AFSC is mandatory. Qualification for aviation service according to AFIs 11-401, *Aviation Management*, and 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*, for entry, award and retention of this AFSC are mandatory. For entry into this specialty, no record or history of temporomandibular joint pain or disorder. Eligibility for a top secret clearance according to AFI 31-501, *Personnel Security Program Management*, is mandatory for award and retention of the semi-skilled and skilled AFSCs.

10.1.2. Training Sources and Resources. Completion of the Airborne Intelligence, Surveillance, and Reconnaissance Operator Fundamentals Course; Airborne ISR Operator course; and SERE 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 for all 1A8X2 personnel, except for cross-trainees with previous aircrew qualifications.

10.1.3. Implementation. Entry into training is accomplished through initial accessions from BMTS or through retraining from any AFSC. After graduation from the Airborne ISR Operator course, IQT starts when an individual is assigned to their first duty position. Thereafter, upgrade training is initiated anytime an individual is assigned duties they are not qualified to perform.

10.2. Journeyman Level Training:

10.2.1. Specialty Qualification. All qualifications for AFSC 1A832 apply to the 1A852 requirements.

10.2.1.1. 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 perform airborne ISR operations including an understanding of air tasking orders; receiving, recording, and relaying operational threat data. Completion of qualification criteria in current assigned aircraft is mandatory.

10.2.1.2. Education. To assume the rank of SSgt, individuals must be a graduate of the Airman Leadership School (ALS).

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

10.2.1.3.1. Minimum rank of SrA and 12 months OJT.

10.2.1.3.2. Completion of the Intelligence Fundamentals 1NX51 CDC and Airborne ISR Operator 1A852 CDC.

10.2.1.3.3. Recommendation by the supervisor.

10.2.1.4. Experience. Qualification in and possession of AFSC 1A832.

10.2.1.5. Other. Physical qualification for aircrew duty according to AFI 48-123, Volume 3, *Medical Examinations and Standards Volume 3 – Flying and Special Operational Duty*, Flying Class III medical standards for entry, award, and retention of this AFSC is mandatory. Qualification for aviation service according to AFIs 11-401, *Aviation Management*, and 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*, for entry, award and retention of this AFSC are mandatory. For entry into this specialty, no record or history of temporomandibular joint pain or disorder. Eligibility for a top secret clearance according to AFI 31-501, *Personnel Security Program Management*, is mandatory for award and retention of the semi-skilled and skilled AFSCs.

10.2.2. Training Sources and Resources. Completion of the Intelligence Fundamentals 1NX51 CDC and the 1A852 Airborne ISR Operator CDC satisfies the knowledge requirements specified in the specialty qualification section (above) for award of the 5-skill level.

10.2.3. Implementation. Entry into journeyman upgrade is accomplished upon arrival at the FTU (or first duty location for locations without an FTU). Enrollment into 5-level CDCs is accomplished once the Airman has completed IQT.

10.3. Craftsman Level Training:

10.3.1. Specialty Qualification. All 1A832 and 1A852 qualifications apply to the 1A872 requirements.

10.3.1.1. Knowledge. In addition to knowledge required for the 3- and 5-skill level and other qualifications as listed above, an individual must possess the aircrew and ISR mission management principles, knowledge, and supervisory skills necessary to supervise personnel performing airborne ISR operations and related duties, and operate and maintain Airborne Operations Systems.

10.3.1.2. Education. To assume the rank of MSgt, individuals must be graduates of the NCO Academy.

10.3.1.3. Training. Completion of the following requirements is mandatory for award of the 7-skill level:

10.3.1.3.1. Minimum rank of SSgt and 12 months OJT.

10.3.1.3.2. Completion of Intelligence Fundamentals 1NX51 CDC and the 1A852 Airborne ISR Operator CDC (or hold a 5-skill level in the AFSC).

10.3.1.3.3. Recommendation by the supervisor for award of the craftsman AFSC.

10.3.1.4. Experience. Qualification in and possession of AFSC 1A852.

10.3.1.5. Other. Physical qualification for aircrew duty according to AFI 48-123, Volume 3, *Medical Examinations and Standards, Volume 3-Flying and Special Operational Duty*, Flying Class III medical standards for entry, award, and retention of this AFSC is mandatory. Qualification for aviation service according to AFIs 11-401 and 11-402 for entry, award and retention of this AFSC are mandatory. For entry into this specialty, no record or history of temporomandibular joint pain or disorder. Eligibility for a top secret clearance according to AFI 31-501, *Personnel Security Program Management*, is mandatory for award and retention of the semi-skilled and skilled AFSCs.

10.3.2. Training Sources and Resources. The STS identifies all tasks required for qualification. Upgrade and qualification training are provided by qualified trainers using available aids written for the duty position, program to be managed, or equipment to be used.

10.3.3. Implementation. Entry into 7-level upgrade is effective 1 Sep each year if an individual is selected for promotion to E-5. The only exception is STEP.

10.4. Superintendent Level Training:

10.4.1. Specialty Qualifications.

10.4.1.1. Knowledge. In addition to knowledge required for the 7-skill level qualification, an individual must possess advanced skills and knowledge of concepts and principles of leadership and the effective management of Airborne ISR operations and personnel. Knowledge is mandatory of airborne ISR operations, conventional and special operations, joint and coalition military, intelligence requirements, administrative techniques, aircrew personnel management, staff functions, budgeting, scheduling, training development, inspections, and standardization and evaluation, aircrew management principles and supervisory techniques.

10.4.1.2. Education. To assume the grade of SMSgt, individuals must be an in-residence graduate of the USAF Senior NCO Academy or sister service Senior Academy.

10.4.1.3. Training. Completion of all training tasks is mandatory.

10.4.1.4. Experience. For AFSC 1A890, qualification is mandatory as an Airborne ISR Operator Craftsman or Airborne Cryptologic Language Analyst Craftsman.

10.4.1.5. Other. Physical qualification for aircrew duty according to AFI 48-123, Volume 3, *Medical Examinations and Standards Volume 3 – Flying and Special Operational Duty*, Flying Class III medical standards for entry, award, and retention of this AFSC is mandatory. Qualification for aviation service according to AFIs 11-401, *Aviation Management*, and 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*, for entry, award and retention of this AFSC are mandatory. For entry into this specialty, no record or history of temporomandibular joint pain or disorder. Eligibility for a top secret clearance according to AFI 31-501, *Personnel Security Program Management*, is mandatory for award and retention of the semi-skilled and skilled AFSCs.

10.4.2. Training Sources and Resources. The STS identifies all tasks required for qualification in the individual's duty position.

10.4.3. Implementation. Entry into upgrade training is initiated when an individual possesses the 7-skill level and assumes the rank of SMSgt.

Section D - Resource Constraints

11. Purpose. This section identifies known resource constraints, which 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, are target completion dates. Resource constraints will be reviewed and updated at least annually.

12. Craftsman Level Training. Lack of an Aircrew Management course has hampered development of the Career Enlisted Aviator NCOs and SNCOs. It has impacted their ability to assume and effectively execute higher-level aircrew management and leadership positions.

Section E - Transitional Training Guide

NOTE: There are currently no transitional training requirements. This area is reserved.

Part II

Section A - Specialty Training Standard (STS)

1. Implementation.

This STS will be used for technical training provided by AETC for classes beginning not earlier than 1 January 2013.

2. Purpose.

As prescribed in AFI 36-2201, this STS:

2.1. Lists in column 1 (Task, Knowledge, and Technical Reference) the most common tasks, knowledge, and technical references (TR) necessary for airmen to perform duties at the 3- and 5-skill level AFSC in the Airborne ISR Operator Specialty ladder of the Aircrew Operations Career Field. These are based on an analysis of the duties in AFECDC.

2.2. Column 2 (3-Skill Level and 5-Skill Level) shows formal training and correspondence course requirements as described in the Education and Training Course Announcements (ETCA) web site at: <https://etca.randolph.af.mil/> and the career knowledge provided by the correspondence course. There is no advanced course. See AFIADL/AFSC/CDC listing maintained by the unit OJT manager for current CDC listings.

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. Is a guide for development of promotion tests used in the Weighted Airmen Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the AF Occupational Measurement Squadron (AFOMS) by senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members to be most appropriate for promotion to higher grades. Questions are based on study references. For further information, please consult the Enlisted Promotions Reference and Requirements Catalog at the following link: <https://www.omsq.af.mil/TE/EPRRC.pdf>. Individual responsibilities are in AFI 36-2605.

3. Recommendations.

Report unsatisfactory performance of individual course graduates to 316 TRS/DOC, 156 Marauder Street, Suite 1, Goodfellow AFB TX 76908-3402. Please reference specific STS paragraphs.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

LARRY D. JAMES, Lt. Gen, USAF
DCS/ Intelligence, Surveillance and Reconnaissance (A2)

2 Attachments:

1. Qualitative Requirements
2. STS: INXXX Core
3. STS: Airborne ISR Operator

Attachment 1 Qualitative Requirements

STS 1A8X2

November 2012

<i>THIS BLOCK FOR IDENTIFICATION PURPOSES ONLY</i>		
NAME OF TRAINEE		
PRINTED NAME (<i>Last, First Middle Initial</i>)	INITIALS (<i>Written</i>)	SSAN
PRINTED NAME OF CERTIFYING OFFICIAL AND WRITTEN INITIALS		
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 Core Task
- ** 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 or CDC.
- x This mark is used alone in course columns to show that training is required but not given due to limitations in resources.
- @ This mark is used to show that training is conducted by Aerospace Physiology during Aircrew Fundamentals.
- @@ This mark is used to show the five general education requirements by CLEP/DANTES (pass or fail) towards CCAF degree
- £ This mark is used to identify training that will be conducted by Field Training Units (FTUs). This training will be tailored to meet MAJCOM mission specific requirements necessary for the completion of Initial Qualification Training (IQT) and Mission Qualification Training (MQT). Qualitative requirements will be determined by applicable MAJCOM.

Attachment 2 Specialty Training Standard

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	1N Common Core Principles	AFSC Technical Principles	1N Common Core CDC	AFSC Technical Principles CDC
1. CAREER LADDER PROGRESSION TR: AFI 36-2101, AFI 36-2104, AFI 11-401, AF Mission Directives					
1.1. Progression within 1AXXX AFSC's	A	--	--	--	--
1.2. Duties within 1AXXX AFSCs	A	--	--	--	--
1.3. Total Force	A	--	--	--	--
1.3.1. MAJCOM Missions	A	--	--	--	--
1.4. Joint / Combined	A	--	--	--	--
2. SECURITY TR: DODR 5200.1, AFI 10-1101, 31-201v2, 31-401, 33-208, 33-211, 10-701			--	--	--
2.1. COMSEC relating to aircrew	A	--	--	--	--
2.2. OPSEC relating to aircrew	A	--	--	--	--
2.3. Perform Anti-Hijacking / Anti-Terrorism Procedures	1a	--	--	--	--
2.4. Information Security relating to aircrew	A	--	--	--	--
2.5. Physical Security relating to aircrew	A	--	--	--	--
2.5.1. Perform flight line security procedures	1a	--	--	--	--
3. CREW RESOURCE MANAGEMENT (CRM) TR: AFI-11-290					
3.1. Crew Resource Management fundamentals	A	--	--	--	--
3.2. Communication					
3.2.1. Terms and definitions	B	--	--	--	--
3.2.2. Radio discipline	A	--	--	--	--
4. AVIATION SAFETY / AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: AFI 32-7806, 91-201, 91-202, 91-301, 91-302, 91-303, 123-1, AFMAN 24-204, AFOSH Std 91-25, 91-66, 91-100, AFPAM 91-121					
4.1. Aviator hazards					
4.1.1. Engine air intake and exhaust	A	--	--	--	--
4.1.1.1. Apply appropriate safety measures	1a	--	--	--	--
4.1.2. High intensity sound	A	--	--	--	--
4.1.2.1. Apply appropriate safety measures	1a	--	--	--	--
4.1.3. Rotor / propeller planes of rotation	A	--	--	--	--
4.1.3.1. Apply appropriate safety measures	1a	--	--	--	--
4.1.4. Antenna radiation	A	--	--	--	--
4.1.4.1. Apply appropriate safety measures	1a	--	--	--	--
4.1.5. Aircraft Electrical System	A	--	--	--	--
4.1.5.1. Apply appropriate safety measures	1a	--	--	--	--
4.1.6. Ground support equipment	A	--	--	--	--
4.1.6.1. Apply appropriate safety measures	1a	--	--	--	--

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
4.2. Weather	A	--	--	--	--
4.3. Bird Avoidance Strike Hazard (BASH) Program	A	--	--	--	--
4.4. Hazardous Materials (HAZMAT)	A	--	--	--	--
4.5. Foreign Object Damage (FOD) Hazards / Prevention	A	--	--	--	--
4.6. High intensity light (Strobes)	A	--	--	--	--
5. PUBLICATIONS TR: AFI 11-215, 33-360, 37-160v1, T.O. 00-20, 00-5-1/2, DODR 4500-32v1, 11-202v2					
5.1. Air Force Technical Order's	B	--	--	--	--
5.1.1. Use T.O.s	2b	--	--	--	--
5.1.2. Post changes	2b	--	--	--	--
5.2. Publications	B	--	--	--	--
5.2.1. Use publications	2b	--	--	--	--
5.2.2. Post changes	2b	--	--	--	--
5.3. Flight Publication Improvement Reports	B	--	--	--	--
5.3.1. Complete flight publication improvement report (AF Form 847)	2b	--	--	--	--
5.4. AFTO IMT 781 series	B	--	--	--	--
5.4.1. Use AFTO IMT 781A	1a	--	--	--	--
5.5. Flight Crew Information File (FCIF)	B	--	--	--	--
5.5.1. Use Flight Crew Information File (FCIF)	2b	--	--	--	--
6. AIRCREW/FLIGHT MANAGEMENT TR: AFPD 11-4, AFI 11-401, 11-402, 11-412, 11-202, 38-201, 48-123v3					
6.1. Responsibilities of HQ USAF and MAJCOM Aircrew Managers	-	--	--	--	--
6.2. Flight authorization	A	--	--	--	--
6.3. Aviation Resource Management (ARM)					
6.3.1. Host Aviation Resource Management (HARM)	A	--	--	--	--
6.3.2. Squadron Aviation Resource Management (SARM)	A	--	--	--	--
6.4. Flight Records Folder (FRF)	A	--	--	--	--
6.5. Aviation service, aeronautical ratings, badges	A	--	--	--	--
6.6 Flight pay / Career Enlisted Flight Incentive Pay (CEFIP) / gates	B	--	--	--	--
6.7. Flight medicine					
6.7.1. Flight surgeon functions	B	--	--	--	--
6.7.2. Grounding / Duties Not Including Flying (DNIF) status	B	--	--	--	--
6.8. Aircrew member responsibilities					
6.8.1. Crew rest	A	--	--	--	--
6.8.2. Restrictions	A	--	--	--	--
7. AIRCREW TRAINING / SUPERVISION TR: AFI 11-2MDS V1, 11-202v1/2, 36-2101, 36-2201, Education & Training Course					

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
Announcements (ETCA)					
7.1. Physiological Training	@				
7.2. General education requirements	@@				
7.3. Initial qualification training	A	--	--	--	--
7.4. Mission qualification training	A	--	--	--	--
7.5. Continuation training / maintaining currency	A	--	--	--	--
7.6. Requalification training	A	--	--	--	--
7.7. Flight Training Records	A	--	--	--	--
7.8. Standardization/Evaluation duties	A	--	--	--	--
7.9. Flight Evaluation Folder (FEF)	A	--	--	--	--
7.10. Life support equipment	A	--	--	--	--
8. AERODYNAMICS TR: -1 T.O., AFH 11-203v1, T.O. 1-1B-50					
8.1. Fixed wing	A	--	--	--	--
8.2. Rotary wing	A	--	--	--	--
8.3. Aircraft general (basic construction)	A	--	--	--	--
8.4. Flight controls	A	--	--	--	--
8.5. Instruments	A	--	--	--	--
8.6. Aircraft Weight and Balance					
8.6.1. Principles	A	--	--	--	--
8.6.2. Solve math problems	1a	--	--	--	--
9. AIRCREW ACTIVITIES TR: -1 T.O., -9 T.O, AFI 10-707, 1-202					
9.1. Mission briefings	A	--	--	--	--
9.1.1. Mission planning documents	A	--	--	--	--
9.2. Professional Equipment	A	--	--	--	--
9.3. Perform egress procedures	1a	--	--	--	--
9.4. Identify aircraft emergency equipment	1a	--	--	--	--
9.5. Oxygen	A	--	--	--	--
9.6. Joint Spectrum Interference Resolution (JSIR) / Air Force Spectrum Interference Resolution (AFSIR)	A	--	--	--	--
10. AIRCRAFT SYSTEMS / EQUIPMENT TR: -1 T.O., MAJCOM guidance and T.O. 00-25-172, AFI 11-202					
10.1. Electrical	A	--	--	--	--
10.2. Hydraulic	A	--	--	--	--
10.3. Environmental	A	--	--	--	--
10.4. Communications	A	--	--	--	--
10.5. Oxygen	A	--	--	--	--
10.6. Fuel	A	--	--	--	--
10.7. Concurrent servicing	A	--	--	--	--
10.8. Fleet Service equipment	A	--	--	--	--

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
10.9. Engines	A	--	--	--	--
10.10. Navigation lighting	A	--	--	--	--
11. SAFETY TR: AFI 91-202, 91-301, OSHA, AFOSHSTD 91-501					
12. SECURITY					
12.1 Information Security (INFOSEC) TR: AFI 31-401 & AFI 33-129 AFGM1	--	A	--	B	--
12.2. Communications Security (COMSEC) TR: AFI 33-201 V1	--	A	--	B	--
12.3. Operations Security (OPSEC) TR: AFI 10-701	--	A	--	B	--
12.4. Physical Security TR: AFI 31-101	--	A	--	B	--
12.5. Personnel Security TR: AFI 31-501	--	A	--	B	--
12.6. Emission Security (EMSEC) TR: AFI 33-200 & AFSSI 7700	--	A	--	B	--
12.7. Computer Security (COMPUSEC) TR: AFI 33-200 & AFSSI 8520	--	A	--	B	--
12.8. Intelligence Oversight Program TR: 14-104, EO 12333	--	A	--	-	--
12.9. SCI classification TR: DoD 5200.1-R, EO 12958-IS00, http://capco.dssc.sgov.gov/	--	A	--	B	--
12.10. Security Derivative Classifications TR: DoD 5200.1-R, EO 12958-IS00, http://capco.dssc.sgov.gov/	--	A	--	B	--
12.11. Safeguard Classified TR: DoD 5200.1-R, EO 12958, as amended, AFI 16-201	--	2b*	--	b	--
13. ORGANIZATIONS AND MISSIONS					
13.1. Executive Branch TR: www.intelligence.gov	--	A	--	B	--
13.2 National Intelligence Community	-		--		--
13.2.1 Office of the Director of National Intelligence (ODNI) TR: DNI.gov, Joint Pub 2-0	--	A	--	B	--
13.2.2 AF Intelligence TR: Joint Pub 2-0, AFPD 14-1, AFI 14-105, HAFMD 1-33	--	A	--	--	--
13.2.3. Army Intelligence TR: inscom.army.mil, Army Reg. 10-87, Joint Pub 2-0	--	A	--	B	--
13.2.4 Navy/Marine Corps Intelligence TR: ONI NDP 2, JP 2-0	--	A	--	B	--
13.2.5 Defense Intelligence Agency (DIA) TR: DIA.gov, Joint Pub 2-0	--	A	--	B	--
13.2.6 National Security Agency (NSA) TR: NSA.gov, Joint Pub 2-0	--	A	--	B	--
13.2.7 National Reconnaissance Office (NRO) TR: NRO.gov, Joint Pub 2-0	--	A	--	B	--
13.2.8 National Geospatial Intel Agency (NGA) TR: NGA.gov, Joint Pub 2-0	--	A	--	B	--
13.2.9 Central Intelligence Agency (CIA) TR: CIA.gov, Joint Pub 2-0	--	A	--	B	--
13.2.10 Intelligence Roles of Other Government Organizations TR: www.intelligence.gov	--	A	--	B	--
13.3 Department of Defense (DoD)					

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
TR: www.defense.gov					
13.3.1. Joint Chiefs of Staff (JCS) TR: JCS.mil	--	A	--	B	--
13.3.2. Unified Commands TR: www.defense.gov/specials/unifiedcommand http://www.defense.gov/home/features/2010/0410_cybersec/	--	A	--	B	--
13.3.3. Joint Activities (such as JICs, GNCSS) TR: Joint Pub 2-0	--	A	--	B	--
13.3.4 Joint Task Force (JTF) TR: Joint Pub 2-0, Joint Pub 3-0	--	A	--	B	--
13.3.5. Major Commands (MAJCOMs) TR: afhra.mil , AFPAM 26-2241	--	A	--	B	--
13.3.6. US Cryptologic System and Service Cryptologic Components (SCC) TR: NSA.smil.mil , AFI 14-128	--	A	--	B	--
13.3.7. Title 10, 32, 50 TR: United States Code	--	A	--	B	--
13.3.8. Coalition Forces TR: Joint Pub 2-1	--	A	--	B	--
13.3.9. Executive Branch TR: www.intelligence.gov	-	A	--	B	--
13.3.10 Navy and Marine Corps Intelligence TR: ONI NDP 2	--	A	--	B	--
13.3.11. US Cryptologic System and SCEs TR: NSA.smil.mil	--	A	--	B	--
14. Contingency Operations					
14.1 Expeditionary Air Force TR: AFI 10-401	--	A	--	B	--
14.2 Marine Air Ground Task Force (MAGTF) TR: http://www.marines.mil/unit/26thMEU/Pages/about/magtf.aspx	--	--	--	A	--
14.3 Naval Carrier/Expeditionary Strike Group TR: http://www.navy.mil/navydata/ships/carriers/powerhouse/cvbg.asp ; http://www.navy.mil/navydata/navy_legacy_hr.asp?id=147	--	--	--	A	--
14.4 Brigade Combat Team (BCT) TR: http://www.sbct.army.mil/	--	--	--	A	--
14.5. Special Operations/Joint Special Operations Task Force (JSOTF) TR: Joint Pub 3-5.1	--	--	--	A	--
14.6. Personnel Recovery TR: AFDD 2-9	--	--	--	A	--
14.7. OPORD/OPLAN TR: AFDD 2-9	--	A	--	B	--
15. Intelligence Disciplines/AFSCs					
15.1. Capabilities and limitations SIGINT TR: Enlisted Classification Directory (AFECD), intelligence.gov	--	B	--	B	--
15.2. Capabilities and limitations of Measurement and Signature Intelligence (MASINT) TR: ECD, Intelligence.gov	--	B	--	B	--
15.3. Capabilities and limitations of Human Intelligence (HUMINT) TR: ECD, Intelligence.gov	--	B	--	B	--
15.4. Capabilities and limitations of Geospatial-Intelligence (GEOINT) TR: ECD, Intelligence.gov	--	B	--	B	--
15.5. Capabilities and limitations of Open Source	--	B	--	B	--

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
Intelligence (OSINT) TR: ECD, Intelligence.gov					
15.6. Functions of Intelligence AFSCs TR: ECD, Intelligence.gov	--	B	--	B	--
16. Doctrine					
16.1 Air Force Doctrine TR: AFDD 1	--	A	--	B	--
16.2. Joint Doctrine TR: JP 2-01	--	A	--	B	--
16.3 Range of Military Operations (ROMO) TR: JP 2-0	--	A	--	B	--
16.4 Levels of War TR: AFDD 2-9, Joint Pub 2-0, Joint Pub 3-0	--	A	--	B	--
16.5 Cyber Doctrine TR: AFDD 1-2	--	--	--	A	--
17. Information Operations (IO)					
17.1. IO Doctrine TR: AFDD 2-5, Joint Pub 3-13	--	A	--	B	--
17.2. Fundamentals of IO TR: AFDD 2-5, Joint Pub 3-13	--	A	--	B	--
17.3. Influence Operations TR: AFDD 2-5, Joint Pub 3-13	--	A	--	B	--
17.4. Network Warfare Ops TR: AFDD 2-5, Joint Pub 3-13	--	A	--	B	--
17.5. Electronic Warfare Operations TR: AFDD 2-5, Joint Pub 3-13	--	A	--	B	--
17.6. IO Planning and Execution TR: AFDD 2-5, Joint Pub 3-13n	--	A	--	B	--
17.7. Physical Attack TR: AFDD 2-5, Joint Pub 3-13	--	A	--	B	--
17.8. ISR Support to IO TR: AFDD 2-9	--	A	--	B	--
18. Intelligence, Surveillance, Reconnaissance (ISR) Operations					
18.1. ISR Process					
18.1.1. Planning and Direction TR: AFDD 2-9, Joint Pub 2-0	--	A	--	B	--
18.1.2. Collection TR: AFDD 2-9, Joint Pub 2-0	--	A	--	B	--
18.1.3. Processing and Exploitation TR: AFDD 2-9, Joint Pub 2-0	--	A	--	B	--
18.1.4. Analysis and Production TR: AFDD 2-9, Joint Pub 2-0	--	A	--	B	--
18.1.5. Dissemination and Integration TR: AFDD 2-9, Joint Pub 2-0	--	A	--	B	--
18.1.6. Evaluation and Feedback TR: AFDD 2-9, Joint Pub 2-0	--	A	--	B	--
18.2. ISR Assets					
18.2.1. Operational Characteristics, Capabilities and Limitations of US and Multinational Assets TR: AFDD 2-9, Joint Pub 2-0, AFTTP 3-1 & 3-3	--	A	--	B	--
18.2.2. Operational Characteristics, Capabilities and Limitations of DCGS TR: AFTTP 3-1	--	A	--	A	--
19. Air and Space Operations Center (AOC) TR: AFTTP 3.1.AOC, AFI 10-401, AFI 13-1AOCV3					
19.1. Structure	--	A	--	A	--
19.2. Mission	--	A	--	A	--

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
20. Intelligence Preparation of the Operational Environment (IPOE) TR: AFI 14-124, Joint Pub 2-01.3, AFPAM 14-11					
20.1 Intelligence Preparation of the Operational Environment	--	A	--	A	--
21. Targeting TR: AFDD 2-1.9, AF14-117, AFPAM 14-210, Joint Pub 3-60					
21.1 Targeting Cycle	--	A	--	A	--
22. US and Friendly Forces Familiarization TR: AFTTP 3-1 All Vols					-
22.1 Aerospace TR: http://www.naic.wrightpatterson.af.smil.mil/aero/	--	A	--	B	--
22.2 Ground TR: http://www.ngic.army.smil.mil/functionpgs/armor	--	A	--	A	--
22.3 Naval TR: http://www.navy.mil/navydata/fact.asp	--	A	--	A	--
23. Electronic Systems Security Assessment Program TR: AFI 33-219, AFI 33-202V1, AFI 33-101					
23.1. Electronic Systems Security Assessment Program	-	A	-	-	--
24. Geospatial Information & Service (GI&S)					
24.1. Identify marginal data & symbology TR: Joint Pub 2-3	--	2b	--	b	--
24.2. Manually Plot Coordinates TR: Joint Pub 2-3	--	2b*	--	b	--
24.3. Perform Time Zone Calculation TR: http://www.nist.gov/pml/general/time/world.cfm	--	1a	--	--	--
25. Critical Thinking TR: Richards J. Heuer, Jr., "Psychology of Intel Analysis" Morgan Jones "The Thinkers Tool Kit"; www.criticalthinking.org					
25.1 Apply Principles of Critical Thinking	--	1a*	--	b	--
25.2 Conduct Online Data Search	--	a	--	b	--
26. ORGANIZATION TR: ATH Vol 1; DCID 1/8; ELINT Business Plan; Joint Tactical Exploitation of National Systems (JTENS); NSOC Organizational Manual; TSSC Homepage; PROFORMA Enterprise CONOP; PROFORMA Signals Handbook; RASIN Manual; USSID AP2402, AP2451, CR1200, CR1200 Annex C, SE1000 series, SE2000 series, SE3000 series, SP0001					
26.1. Mission, Function and Responsibility of the Following DoD Organizations					
26.1.1. United States SIGINT System (USSS)					
26.1.1.1. SIGINT Field Sites	--	--	A	--	B
26.1.1.2. ELINT Community	--	--	A	--	B
26.1.1.2.1. Roles and Missions of Scientific Production Centers (SPCs) and How They Support the National SIGINT Mission	--	--	A	--	B
26.1.1.2.2. Roles and Missions of Intermediate Production Centers (IPCs) and How They Support the National SIGINT Mission	--	--	A	--	B
26.1.1.3. National Security Operations Center	--	--	A	--	B

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
(NSOC) and Technical SIGINT Senior Coordinator (TSSC)					
26.1.1.4. Tasking Authority	--	--	A	--	B
26.2. Purpose of the Following Intelligence Functions					
26.2.1. COMINT	--	--	B	--	B
26.2.2. ELINT	--	--	B	--	B
26.2.3. FISINT	--	--	B	--	B
26.2.4. PROFORMA	--	--	B	--	B
26.2.5. IMINT	--	--	B	--	B
27. PRINCIPLES OF ELECTROMAGNETIC (EM) ENERGY TR: SIGA2800; SIGE2810; SIGG2100, 3201; INTELINK: harvest.z6.z.nsa/Z6TRAIN/training/train.htm;					
27.1. Properties, Characteristic, and Aspects of EM Energy	--	--	A	--	B
27.2. Terms Associated with EM energy:					
27.2.1. EM Energy	--	--	A	--	B
27.2.2. EM Spectrum	--	--	A	--	B
27.2.3. Radio Frequency (RF)	--	--	B	--	B
27.2.4. RF Spectrum	--	--	B	--	B
27.3. Aspects of Waveforms, Terms, Concepts, Characteristics, and Display Techniques Associated with EM Energy					
27.3.1. Sine Wave	--	--	B	--	B
27.3.1.1. Cycle	--	--	B	--	B
27.3.1.2. Period (time)	--	--	B	--	B
27.3.1.3. Wavelength	--	--	B	--	B
27.3.1.4. Frequency (rate)	--	--	B	--	B
27.3.1.5. Phase (angle/frequency)	--	--	B	--	B
27.3.2. Complex Waveforms					
27.3.2.1. Linear/Nonlinear Mixing	--	--	B	--	B
27.3.2.2. Bandwidth	--	--	B	--	B
27.3.2.3. Pulse Characteristics	--	--	B	--	B
27.3.3. Signal-to-noise Ratio	--	--	B	--	B
28. COMINT COLLECTION AND ANALYSIS TR: Local Manuals					
28.1. Equipment Software Simulation					
28.1.1. Receivers	--	--	B	--	B
28.1.2. Demodulators	--	--	B	--	B
28.1.3. Demultiplexers	--	--	B	--	B
28.1.4. Translators/Converters	--	--	B	--	B
28.1.5. Digitizers	--	--	B	--	B
28.2 Perform Parametrical Measurements using					

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
digital processing software (All Cap Heading)					
28.2.1. Carrier Frequency	--	--	2b	--	B
28.2.2. Bandwidth	--	--	2b	--	B
28.2.3. Frequency Excursion	--	--	2b	--	B
28.2.4. Modulation Rate/Data Rate	--	--	2b	--	B
28.2.5. Recordings	--	--	2b	--	B
28.2.6. Modulation					
28.2.6.1. Amplitude Modulation	--	--	2b	--	B
28.2.6.1.1. Double Sideband (DSB)	--	--	2b	--	B
28.2.6.1.2. Single Sideband (SSB)	--	--	2b	--	B
28.2.6.1.3. Independent Sideband (ISB)	--	--	2b	--	B
28.2.6.1.4. Amplitude Shift Keyed (ASK)	--	--	2b	--	B
28.2.6.2. Angle Modulation					
28.2.6.2.1. Frequency Modulation	--	--	2b	--	B
28.2.6.2.2. Phase Modulation	--	--	2b	--	B
28.2.6.2.3. Frequency Shift Keyed (FSK)	--	--	2b	--	B
28.2.6.2.4. Phase Shift Keyed (PSK)	--	--	2b	--	B
28.2.6.2.5. Quadrature Amplitude Modulation (QAM)	--	--	2b	--	B
28.2.6.2.6. Gaussian Minimum Shift Keying (GMSK)	--	--	2b	--	B
28.3. Multiplexing					
28.3.1. Frequency Division Multiplexing (FDM)	--	--	B	--	B
28.3.2. Frequency Division Multiple Access (FDMA)	--	--	B	--	B
28.3.3. Orthogonal Frequency Division Multiplexing (OFDM)	--	--	B	--	B
28.3.4. Time Division Multiplexing (TDM)	--	--	B	--	B
28.3.5. Time Division Multiple Access (TDMA)	--	--	B	--	B
28.3.6. Code Division Multiple Access (CDMA)	--	--	B	--	B
28.3.7 Orthogonal Frequency Division Multiple Access (OFDMA)	--	--	B	--	B
28.4. Pulse Modulation					
28.4.1 Pulse Code Modulation (PCM)	--	--	B	--	B
28.5 Spread Spectrum					
28.5.1. Types of Spread Spectrum	--	--	A	--	B
28.5.2. RF Hopping	--	--	A	--	B
28.6. Antenna Characteristics					
28.6.1. Type	--	--	A	--	B
28.6.2. Impedance	--	--	A	--	A
28.6.3. Radiation Pattern	--	--	A	--	B
28.6.4. Bandwidth	--	--	A	--	B
28.6.5. Beamwidth	--	--	A	--	B

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
28.6.6. Gain	--	--	A	--	B
28.6.7. Polarization	--	--	A	--	B
28.6.8. Reciprocity	--	--	A	--	B
28.6.9. Directivity	--	--	A	--	B
28.6.10. Transmission Line	--	--	A	--	A
28.6.11. Arrays	--	--	A	--	B
28.6.12. Functions	--	--	A	--	B
28.7. Aspects of Radio Wave Propagation, to include, but not limited to:					
28.7.1. Characteristics (Absorption, Reflection, Scatter, Refraction, Noise, and Defraction:	--	--	B	--	B
28.7.2. Atmospheric Layers	--	--	A	--	B
29. RADAR FUNDAMENTALS TR: JTENS, EPL, GALE Lite User's Guide					
29.1. Fundamentals of RADAR Operation to include:					
29.1.1. Principles of Operation	--	--	A	--	B
30. ISR SYSTEMS TR: JTENS; Space Handbook Analyst's Guide, Vols 1 & 2; AU-18, Air University Press					
30.1. National SIGINT Collection Platforms	--	--	A	--	B
30.2. Airborne SIGINT Collection Platforms	--	--	A	--	B
30.3. AF Tactical Airborne Assets	--	--	A	--	B
30.4. Terrestrial SIGINT Collection Platforms	--	--	A	--	B
30.5. DCGS SIGINT Systems	--	--	A	--	B
30.6. 1A8X2 Platforms	--	--	B	--	B
31. TOOLS AND DATA PROCESSING TR: Technical Reference for Information Operations; USSID AP 2401, AP2402, AP2503, CR 1030, CR1422, CR1423, CR1500, CR1551, DA3215, SG5301, SG5302; INTELINK: atcail.trojan.ic.gov/sed/certification/apprentice_9&J_24.html					
31.1. DoD Computer Networks, Applications and Analysis Tools					
31.1.1. INTELINK	--	--	A	--	--
31.1.2. JWICS (INTELINK SCI)	--	--	A	--	--
31.1.3. SIPRNET (INTELINK S)	--	--	A	--	--
31.1.4. NSANET	--	--	A	--	--
31.2. USSID System	--	--	A	--	B
31.3 Identify Collection, Processing, Analysis, and/or Reporting Requirements and Procedures using the USSID System	--	--	1a	--	B
32. ALL-SOURCE REPORTING TR: USSID AP 2401, AP2402, AP2503, CR1422, CR1423, CR1500, CR1551, DA3215, SG5301, SG5302					
32.1. Use of All-source Collected Data to Create a Finished Intelligence Product	--	--	A	--	B
33. ELECTRONIC WARFARE					

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
33.1. Electronic Support	--	--	A	--	B
33.2. Electronic Attack	--	--	A	--	B
33.3. Electronic Protection	--	--	A	--	B
33.4 Wireless Communications	--	--	--	--	
33.4.1. Network Fundamentals	--	--	B	--	B
33.4.2 Logical Channels	--	--	B	--	B
33.4.3 Wireless Technologies (examples PCS Communication , WI/FI, SATCOM)	--	--	B	--	B
34. SIGNALS TECHNOLOGIES TR: SIGG1049, INTELINK: harvest.z6.z.nsa/Z6TRAIN/training/train.htm TR: USSID AP 2401, AP2402, AP2503, CR1422, CR1423, CR1500, CR1551, DA3215, SG5301, SG5302					
34.1. Facsimile	--	--	B	--	--
34.2. MODEMS	--	--	B	--	B
34.3. Integrated Services Digital Network (ISDN)	--	--	B	--	--
34.4. Telemetry	--	--	A	--	A
34.5. Digital Video/Voice	--	--	A	--	B
34.6. Packet	--	--	B	--	B
34.7. Short Duration Signal (SDS)	--	--	B	--	B
34.8. High Data Rate Signals (HDR)	--	--	B	--	B
34.9. Speech Privacy/Encipherment	--	--	B	--	B
35. SOFTWARE AND PROGRAMING TR: Local Manuals, Applicable Operating System Manual (Linux)					
35.1. Manipulate Computer Operating System Software	--	--	2b	--	--
36. REPORTING TR: USSID CR1521, Local Directives					
36.1. Emergency Distress Signals	--	--	A	--	B
36.2. Search and Rescue (SAR)	--	--	B	--	B
37. COMPUTER NETWORKING TR: SIGG1049, NETW1980, INTELINK: harvest.z6.z.nsa/Z6TRAIN/training/train.htm					
37.1. Network Topology	--	--	A	--	A
37.2. Transmission Media	--	--	A	--	A
38. APPLIED MATHEMATICS TR: Math 1030, Math for SIGINT					
38.1. Apply Principles of Number Systems	--	--	2b	--	--
38.2. Convert Numbers Using Scientific Notation	--	--	2b	--	--
38.3. Apply Principles of RF Math	--	--	2b	--	--
38.4. Manipulate Formulas	--	--	2b	--	--
39. US/ALLIED ORDER OF BATTLE TR: AFTTP 3-1					
39.1. AFTTP 3-1 Structure	--	--	A	--	B
39.1.1 Conduct data search using AFTTP 3-1	--	--	1a	--	--

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
39.2. Airborne Weapon Systems	--	--	--	--	--
39.2.1. Electronic Warfare	--	--	A	--	B
39.2.2. Intelligence, Surveillance and Reconnaissance	--	--	A	--	B
39.3 Combined/Joint operations	--	--	A	--	B
39.4. Special Operations Forces (SOF)	--	--	A	--	B
39.5. Combat Air Forces (CAF)	--	--	A	--	B
39.6. Air Expeditionary Forces (AEF)	--	--	A	--	B
39.7. Command and Control	--	--	A	--	B
40. GEOSPATIAL INFORMATION AND SERVICES (GI&S) TR: AFI 14-205, AFPAM 14-210, AFM 51-4, DIAM 57-24 Vols. 1 & 2, DIAM 65-2-1, DIA Point Reference Guidebook, GIPS, NIMA Catalog Vol. 1 Parts 1 & 4, CATMN Vols. 1 & 2, CHUM, DMA Manual 8750.1, DMA Technical Report 80-003, DMA Training Manual 78-002, DMA Training Manual 80-001, Applicable Command Directives					
40.1. GI&S:					
40.1.1. Datums	--	--	A	--	B
40.1.2. Scale	--	--	A	--	B
40.1.3. Accuracy and Reliability	--	--	A	--	B
40.1.4. Marginal Data and Symbology	--	--	A	--	--
40.1.5. Coordinate Systems	--	--	A	--	B
40.1.6. Convert Coordinates	--	--	2b	--	B
40.1.7. Plot and Extract Coordinates	--	--	2b	--	--
40.1.8. Compute Distance and Direction	--	--	2b	--	B
40.2. Fundamentals and Uses of GI&S Products:					
40.2.1. Charts	--	--	A	--	--
40.2.2. Imagery	--	--	A	--	--
40.2.3. Target Materials	--	--	A	--	--
40.2.4. Digital Terrain Elevation Data (DTED)	--	--	A	--	--
40.3. Automated mapping tool (example Falconview, Google Earth)					
40.3.1. Construct Overlay	--	--	2b	--	--
40.3.2. Plot and Extract Coordinates	--	--	2b	--	--
40.3.3. Compute Distance and Direction	--	--	2b	--	--
40.3.4. Convert Coordinates	--	--	2b	--	--
41. TARGET FORCES FAMILIARIZATION TR: AFTTP 3-1 Vols., DIA Intelligence Production Code Documents, NSA TSR, Local Working Aids					
41.1. Conventional military, paramilitary and/or unconventional forces case studies					
41.1.1. Order of Battle and Structure	--	--	A	--	B
41.1.2. Missions	--	--	A	--	B

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
41.1.3. Weapons systems	--	--	A	--	B
41.1.4. Communications and equipment	--	--	A	--	B
41.1.5. Tactics, Techniques and Procedures	--	--	A	--	B
42 LAND/SEA/AIR RADAR FUNCTIONS TR: AFTTP 3-1 Vol. 2, NCS IS-070					
42.1. Early Warning/Height Finder	--	--	A	--	B
42.2. Missile guidance/Target Tracker	--	--	A	--	B
42.3. Air Traffic Control	--	--	A	--	B
42.4. Air Intercept	--	--	A	--	B
42.5. Aid-to-intercept (examples Air/Space/Ground C2 Control Intercept)	--	--	A	--	B
42.6. Navigational	--	--	A	--	B
42.7. Meteorological	--	--	A	--	B
43. INFLIGHT COMMUNICATIONS/REPORTING TR: AFI 11-290, TOs and User's Manuals, USSIDs					
43.1. Voice Communication Modes/Format					
43.1.1. UHF/VHF/HF/SATCOM	--	--	A	--	B
43.1.2 Transmit/receive radio communications using radio discipline	--	--	A	--	--
43.2. Communicate using data modes/format (example MIRC)	--	--	A	--	B
43.3. CRITIC	--	--	B	--	B
43.4. Serialized reporting	--	--	A	--	B
43.5. Tactical reporting	--	--	A	--	B
43.6. Post mission reporting	--	--	A	--	B
43.7. Datalink reporting	--	--	A	--	B
43.8. Joint Spectral Interference reporting	--	--	A	--	B
43.9. Combat Advisory/Imminent Threat Warning	--	--	A	--	B
43.10. SIGINT Threat Warning	--	--	A	--	B
44. TARGETING TR: AFI 14-207, AFPAM 14-210					
44.1. Attack Mission Cycle and the Targeting Process	--	--	A	--	B
44.2. National, Theatre, & Component Level Objectives and Guidance	--	--	A	--	B
44.3. Types of Target Materials Used in the Targeting Process	--	--	A	--	B
44.4. HVI (TST) and Conventional Targeting Process Additives	--	--	A	--	B
44.5. Target Development	--	--	A	--	B
44.6. Target Development Functions:					
44.6.1. Target Analysis	--	--	A	--	B
44.6.2. Target Validation	--	--	A	--	B
44.6.3. Documentation	--	--	A	--	B
44.6.4. Target Nomination	--	--	A	--	B

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 3-Skill Level			B 5-Skill Level	
	Aircrew Fundamentals	IN Common Core Principles	AFSC Technical Principles	IN Common Core CDC	AFSC Technical Principles CDC
44.6.5. Collection and Exploitation Requirements	--	--	A	--	B
45. GEOLOCATION					
45.1. Methods of geolocation	--	--	A	--	B

Section B – Course Objective List

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

5. Standard. The minimum standard is 70% 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 “2b” proficiency level which means the students can do most parts of the task, but do need assistance on the hardest parts of the task (partially proficient). The student can also determine step-by-step procedures for doing the task.

7. Classification. The CFETP is UNCLASSIFIED//FOR OFFICIAL USE ONLY.

8. Course Objectives, Initial Skills Course: This course and all course control documents are classified TS//SCI. Course control documents kept on file at 316 TRS/XPP; Goodfellow AFB, TX.

Section C – Support Material

9. Support Material.

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

NOTE: This area is reserved.

Section D – Training Course Index

10. Purpose. This section of the CFETP identifies a partial listing of training courses available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs. Air Education and Training Command (AETC) Education and Training Course Announcement website at: <https://www.my.af.mil/etccourses/> provides an in depth resource to locate training opportunities.

11. Air Force In-Residence Courses.

Course Number	Course Title	Location
L3AQR1A812-01AA	Aircrew Fundamentals Course	Lackland AFB, TX
X3AQR1A832 00AA	Apprentice Airborne ISR Operator Fundamental Skills	Goodfellow AFB, TX
X3ABR1A832 0A1B	Apprentice Airborne ISR Operator Apprentice	Goodfellow AFB, TX
S-V80-A	Combat Survival Training	Fairchild AFB, WA
S-V84-AF	USAF Underwater Parachute Training Course	Pensacola NAS, FL
S-V86-A	Water Survival Training	Pensacola NAS, FL
S-V86-B	Emergency Parachute Training Course	Pensacola, NAS, FL
S-V90-A	Water Survival Training (Non-Parachuting)	Fairchild AFB, WA
S-V83-A	Special Survival	Fairchild AFB, WA
XBAZN1N251 0A3A	Intermediate Signals Analysis Course (CIN: A-232-0451/CDP: 028Y)	Corry Station, FL
XBAZN1N251 0A1A	Advanced Communications Signals Analysis (CIN: A-232-0452/CDP: 4375)	Corry Station, FL

12. Air Force Institute for Advanced Distributed Learning (AFIADL) Courses.

COURSE NUMBER	COURSE TITLE	
CDC 1NX5X	Intelligence Fundamentals Career Development Course	
CDC 1A852	Airborne ISR Operator Journeyman Career Development Course	

Section E – MAJCOM Unique Requirements

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

13. Major Command Courses.

COURSE NUMBER	COURSE TITLE	LOCATION	MAJCOM
CCALLB30ANOIQ	Compass Call Block 30 Analysis Operator Initial Qualification	Davis Monthan AFB, AZ	ACC
CCALLB30ANORQ	Compass Call Block 30 Analysis Operator Requalification	Davis Monthan AFB, AZ	ACC
CCALLB30ANOTX	Compass Call Block 30 Analysis Operator Transition	Davis Monthan AFB, AZ	ACC
CCALLB30MCS	Compass Call Block 30 Mission Crew Supervisor	Davis Monthan AFB, AZ	ACC
CFICSS	Senior Scout C-130 Central Flight Instructor Course.	Salt Lake City, UT	ACC
EC130HINST	Compass Call Mission Crew Instructor Qualification	Davis Monthan AFB, AZ	ACC
E8IAIT	E-8 Instructor Airborne Intelligence Technician	Robbins AFB, GA	ACC
E8AIT-QT	E-8 Airborne Intelligence Technician – Qualification Training	Robbins AFB, GA	ACC
E8AIT-RQ	E-8 Airborne Intelligence Technician – Requalification Training	Robbins AFB, GA	ACC
CFIC135/E4	RC/OC/WC-135 and E-4B Aircraft Central Flight Instructor Course	Offutt AFB, NE	ACC
MC12APG01	MC-12 Aerial Precision Geo-location Operator Basic Course	Beale AFB, CA	ACC
MC12APG02	MC-12 Aerial Precision Geo-location Operator Requalification Course	Beale AFB, CA	ACC
RC135SSD1	RC-135 Special Signals Development Initial/Mission Qualification	Offutt AFB, NE	ACC
SSIQT	Senior Scout IQT	Salt Lake City, UT	ACC

14. Career Enhancement Programs.

14.1 Intern Programs

14.1.1 Middle Enlisted Cryptologic Career Advancement Program (MECCAP). MECCAP is a 3-year program established at the National Security Agency/Central Security Service (NSA/CSS) to further develop the technical and leadership skills of selected NCOs through advanced formal training and a series of individually tailored operational assignments. The goal of the program is to provide a career broadening work/study environment that develops highly skilled cryptologic managers for future active duty cryptologic positions requiring greater expertise and responsibility. Participants are afforded the opportunity to enhance their knowledge and skills in collection management, intelligence and signal analysis, reporting and dissemination, research and engineering, information security/information operations, and support to military/intelligence community operations. Furthermore, MECCAP provides participants an in-depth understanding of relationships within the National Intelligence Community. This program requires a PCS assignment to Fort Meade, MD.

14.1.1.1. Eligibility Criteria.

- a. Must be a career cryptologic technician (1NXXX/1A8XX) in the grade of E-5 through E-7 with an outstanding record of past performance.
- b. Should not have more than 14 years or less than 6 years total active military service.
- c. Cannot have other voluntary assignment applications pending (OTS, AECP, etc.) or have received PCS orders.
- d. Must sign an active duty service commitment (ADSC) acknowledgement form prior to program start date. Individuals selected will incur a six-year active duty service obligation. This commitment is required to ensure selectee has sufficient retainability for completing both the MECCAP Program and follow-on tour of duty (includes the active duty service commitment of three years upon completion of the program).
- e. Must meet PCS eligibility requirements. Units will ensure eligibility of each applicant prior to package submission. If in question, please contact your AFPC assignments manager of your local MPF for verification of eligibility prior to package submission. Applicants not meeting eligibility requirements will not be boarded.
- f. Members stationed at Ft. Meade desiring MECCAP should not have more than 2-years time on station as of entry into the program.
- g. Members assigned to overseas units may apply, and if selected, will enter the program upon DEROS. However, if the DEROS does not coincide with a MECCAP vacancy, the individual must extend the overseas tour to match the entry date. Curtailment of tour, up to 59 days, may be considered. Please check with AFPC or your local MPF for verification.
- h. Must already possess a Top Secret Security Clearance with eligibility for access to SCI upon processing/arrival to NSA.
- i. Must have a current CI-level polygraph and/or must pass a CI-level polygraph at Ft. Meade.

14.1.1.2. Application Process. Air Staff calls for nominations for this program annually in the late summer/early fall timeframe via formal message traffic. The message can also be located on the 1N3/1A8 Community of Practice webpage: <https://afkm.wpafb.af.mil/ASPs/CoP/EntryCoP.asp?Filter=OO-IN-AF-06>.

14.1.2. Military ELINT Signals Analyst Program (MESAP). A three year formal technical ELINT development program that provides advanced Technical ELINT signals analysis training.

14.1.3. Military Operational ELINT Signals Analyst Program (MOSAP). A three year formal operational ELINT development program that provides advanced Operational ELINT signals analysis training.

14.1.4. Military COMINT Signals Analysis Program (MCSAP). A three year formal education and training program at NSA. The program is designed to prepare highly qualified career military personnel to fill COMINT Signals Analysis positions through advanced formal training and individually tailored operational assignments while stationed at NSA. Upon completion, member is awarded SEI (1KG).

14.2. National Intelligence University (NIU)

14.2.1. Bachelor of Science in Intelligence (BSI) Degree Program. The BSI is a 12-month intelligence curriculum consisting of nineteen 400 and 500-level courses are distinctly different from courses offered at the 300-level Undergraduate Intelligence Program.

14.2.2 Master of Science in Strategic Intelligence (MSSI) Program. The MSSI program requires completion of Post Graduate Intelligence Program course work and a Master's thesis. The course work consists of eight core and six elective courses in national intelligence organization, collection management, production, dissemination of national intelligence basic intelligence analysis. The thesis requires an additional quarter of study during the summer for full-time students.

14.2.3 Master of Science and Technology Intelligence (MSTI) Program. The MSTI program requires completion of seven core courses plus four electives and a Master's thesis. The mission of the School of Science and Technology Intelligence is to support our national, defense, and international partners with global knowledge of foreign science & technology capabilities and intents.