DEPARTMENT OF THE AIR FORCE
Headquarters US Air Force
Washington, DC 20330-1030

AFSC 1C1X1

AIR TRAFFIC CONTROL OPERATIONS

CAREER FIELD

EDUCATION AND TRAINING PLAN

CAREER FIELD EDUCATION AND TRAINING PLAN

Table of Contents

PART I

PREFACE

1. The Career Field Education and Training Plan (CFETP) is a comprehensive core training document that identifies life-cycle education and training requirements, training support resources, minimum core task requirements and a defined career path. Using the guidance provided in the CFETP ensures individuals receive effective and efficient training at the appropriate point in their career.

2. The CFETP consists of two parts used by supervisors to plan, manage and control training within the career field. The CFETP part II will be utilized in training all Air Traffic Controllers including GS-2152 (civilian) controllers.

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 path and progression information, duties and responsibilities and training strategies. Section C associates each level with specialty qualifications (knowledge, education, training and experience). Section D indicates resource constraints. Note: See AFMAN 36-2108, *Airman Classification* for job descriptions. Section E identifies transition training guide requirements for SSgt through MSgt.

2.2. Part II provides a comprehensive listing of training courses and standards available to support career field training requirements. Section A identifies the Specialty Training Standard (STS) and includes training standards, specialty core tasks and technical references to support Air Education Training Command (AETC) conducted training and the Air Force On-the-Job Training Program. The STS is required to be maintained in each individual AF Form 623. Section B contains course objectives, training standards and behavioral statement lists. Supervisors will use this section to determine if airmen satisfy training requirements. Section C identifies available OJT support materials. Qualification Training Packages identified in this section have been developed to support both upgrade and qualification training. Section D identifies a training course index supervisors can use to determine training strategies and annual budget 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 for associated qualification needs.

3. Using guidance provided in the CFETP will ensure AFSC 1C1X1 and GS-2152 personnel in this specialty receive effective and efficient training at the appropriate point in their career. This plan enables today's workforce to train for tomorrow's jobs. At the unit level, supervisors and trainers will use Part II to identify, plan and conduct training commensurate with the overall goals of this plan.

ABBREVIATIONS/TERMS EXPLAINED

Air Force Career Field Manager (AFCFM). Individual who, through extensive experience and training, has demonstrated managerial ability to plan, direct, coordinate and control a career or support area functional specialty throughout the Air Force.

Air Force Job Qualification Standard/Command Job Qualification Standard (AFJQS/CJQS). An AFJQS/CJQS is a comprehensive task list describing a particular job type or duty position. It is used by supervisors to document task qualifications. The tasks in an AFJQS/CJQS are common to all persons serving in the described duty position.

Air Force Specialty Code (AFSC). Coding system that designates a group of positions that require a common qualification.

Air Force Training Management System (AFTMS). A HQ AFPC managed computer support system that links Air Force units and activities, which use the system for planning, controlling and allocating formal training throughout the Air Force, including MAJCOM Mission Readiness Training Programs. Exception: Personnel don't use the AFTMS for coded courses.

Airman Leadership School (ALS). The first of three programs enlisted professionals attend during their Air Force careers. Prepares senior airmen for supervisory and reporting official duties.

Assistant Chief, Air Traffic Control Training (ACATCT). Assists the Chief, Air Traffic Control Training (CATCT) in monitoring ATC facility training, coordinating monthly training schedules, training records inspections; assist the CATCT in developing and managing the unit air traffic control training device radar simulator system and management of computer based products.

Air Traffic Control Systems Specialist (ATCSS). Individual(s) responsible for the overall operation and monitoring of an ATC facility's automated systems.

Basic Military Training (BMT). The initial military training course for new Air Force members. The course provides the individual with a basic foundation and introduction to Air Force history, customs and courtesies, physical fitness and military bearing.

Career Field Education and Training Plan (CFETP). A comprehensive, multipurpose document encompassing the entire spectrum of education and training for a career field. It outlines a logical growth path, including training resources and is designed to eliminate duplication, make career field training identifiable, cost effective and budget defensible.

Chief Controller (CCTLR). Manages the internal operation of the air traffic facility.

Chief, Air Traffic Control Training (CATCT). Air traffic control individual responsible to develop and manage the unit controller development program to include building and maintaining sector and scenario simulation products.

Chief Enlisted Manager (CEM). An Air Force specialty coding identifying all chief master sergeant positions in the Airman Classification Structure. In many cases, CEM codes are made up of a series of existing superintendent specialties where the degree of supervisory and managerial task involvement permits expanded resource use.

Chief, Standardization and Evaluation (CSE). ATC individual who administers the facility certification and rating program according to applicable Air Force and Federal Aviation Administration requirements.

Community College of the Air Force (CCAF). Federally chartered degree-granting institution that awards an associate degree to active duty enlisted and Air Force Reserve component members. The associate in applied

science degree is awarded for successful completion of a degree program specifically designed for an Air Force specialty.

Computer-Based Training Programs (CBT). Students receive lesson materials at a training terminal through student and computer interaction.

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

Control Tower Operator (CTO). An endorsement by the Control Tower Operator examiner that an individual has demonstrated the competence, qualifications and skills required to control air traffic in the local control, ground control and flight data positions.

Core Task. Tasks the Air Force Career Field Manager identify as minimum qualification requirements within an AFSC, regardless of duty position. Core Tasks may be specified for a particular skill level or in general across the AFSC.

Course Objective List (COL). A comprehensive list derived from initial/advanced skills course training standard, identifying the tasks and knowledge requirements and respective standards provided to achieve a 3/5/7-skill level. Supervisors use the COL to assist in conducting graduate evaluations IAW AFI 36-2201, *Developing, Managing, and Conducting Training*.

Crew Resource Management (CRM). A process designed to aid in the prevention of aviation accidents and incidents by improving crew performance through a better understanding of human factor concepts.

Customer Service Information Line (CSIL). A 24-hour telephone line for supervisors to call when questions arise about training received at any formal technical training school. This system allows HQ AETC (Keesler Technical Training School) to respond quickly to the concerns of field supervisors.

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 particular specialty.

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

Field Evaluation Questionnaire (FEQ). Questionnaire sent to supervisors requesting data/feedback concerning recent graduates qualifications in approved training standards.

Field Technical Training (Type 4). Special or regular on-site training conducted by a Field Training Detachment (FTD) or by a Mobile Training Team (MTT).

Functional Account Code (FAC). Code used to identify workcenters on the Unit Manpower Document, Unit Personnel Management Roster and related documents.

Graduate Assessment Survey (GAS). Surveys sent to supervisors to inquire on initial assessment of recent graduates. This assessment includes the graduate's attitude and adherence to military standards and their capability/ability to perform their job at the apprentice level and at your workcenter.

Ground Controlled Approach (GCA). A fixed, mobile, or transportable facility that provides radar ATC services within airspace designated by an approach control facility.

Initial Skills Training. A formal resident course that results in the award of an entry AFSC skill level.

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

Major Command (MAJCOM). A major subdivision of the Air Force organized on a functional basis in the United States and a geographical basis overseas. MAJCOMs are interrelated and complementary, providing offensive, defensive and support elements to operational commanders.

MAJCOM Functional Manager (MFM). Individual who, through extensive experience and training, has demonstrated managerial ability to plan, direct, coordinate and control a career or support area functional specialty within the major command.

Noncommissioned Officer's Academy (NCOA). A military educational institution charged to prepare technical sergeants and technical sergeant selects for positions of greater responsibility by broadening their leadership and supervisory skills and expanding their perspective of the military profession.

Notice to Airman (NOTAM). A notice containing information concerning the establishment, condition, or change in any component in the National Airspace System that is essential to personnel concerned with flight operations.

Numbered Air Force (NAF). A level of command directly under a MAJCOM. NAFs are tactical echelons that provide operational leadership and supervision in specific geographic regions or theater of operations.

Occupational Survey Report (OSR). A detailed report showing the results of an occupational survey of tasks performed within a particular AFS.

On-The-Job-Training (OJT). Hands-on, over-the-shoulder training to certify personnel in both upgrade (skill level award) and job qualification (duty position certification) training.

Optimal Training. The ideal combination of training settings that results in the highest levels of proficiency on specified performance requirements within the minimum time possible.

Qualification Training (QT). Actual hands-on task performance training designed to qualify an individual in a specific duty position. This portion of the dual channel OJT program occurs both during and after the upgrade training process. It is designed to provide the performance skills required to do the job.

Qualification Training Package (QTP). An instructional package designed for use at the unit to qualify, or aid qualification, in a duty position or program, or on a piece of equipment. It may be printed, computer-based, or in other audiovisual media.

Radar Approach Control (RAPCON). A terminal ATC facility that uses radar and nonradar capabilities to provide control services to aircraft arriving, departing or transiting airspace controlled by the facility.

Radar Final Control (RFC). An ATC service that provides navigational guidance or approach monitoring during the final phase of flight. An RFC facility is defined as a fixed, mobile, or transportable radar facility that provides RFC service.

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

Senior Controller (SC). The individual responsible for the overall operations of an air traffic control facility during their shift and maintains general situational awareness of air traffic (see Watch Supervisor). A senior controller is also simultaneously responsible for duties at an operating position.

Senior Noncommissioned Officer Academy (SNCOA). SNCOA is the capstone of enlisted Professional Military Education (PME) and is intended for CMSgt selects, SMSgts, select MSgts, chief petty officers and international senior NCOs. The 30-academic day curriculum is designed to expand the leadership capabilities of senior enlisted leaders and reinforce a commitment to the profession of arms.

Skills Training. A formal course that results in the award of a skill level.

Special Experience Identifier (SEI). Special experience identifiers (SEI) identify special experience and training not otherwise reflected in the classification system. SEIs are primarily used for contingency purposes. SEIs are awarded based on completion of formal training or a unique course, and experience performing specific duties.

Specialty Knowledge Test (SKT). One of two tests in the Weighted Airman Promotion System (WAPS). The SKT is an examination that covers broad technical knowledge within a given Air Force Specialty Code (AFSC).

Specialty Training Standard (STS). An Air Force publication that describes the skills and knowledge that airmen in a particular AFS need on the job. It further serves as a contract between AETC and the user to show the overall training requirements for an AFS code that the formal schools teach.

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.

Terminal Instrument Procedures Specialist (TERPS). The individual responsible for designing, reviewing, and updating instrument procedures within their area of jurisdiction. This includes, but is not limited to, instrument approach procedures, instrument departure procedures, obstruction information, etc.

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

Training Capacity. The capability of a training setting to provide training on specified requirements, based on the availability of resources.

Training Planning Team (TPT). Comprised of the same personnel as a U&TW, however TPTs are more intimately involved in training development and the range of issues are greater than is normal in the U&TW forum.

Upgrade Training (UGT). Mandatory training that leads to obtaining a higher level of proficiency and award of a skill level.

Utilization and Training Workshop (U&TW). A forum of MAJCOM AFSC functional managers, Subject Matter Experts (SMEs) and ATC training personnel that determines career ladder training requirements.

Watch Supervisor (WS). The individual responsible for the overall operations of an air traffic control facility during their shift and maintains general situational awareness of air traffic.

Weighted Airman Promotion System (WAPS). The Air Force promotion system for enlisted members. Consists of six promotion factors, each assigned points based on importance relative to promotion.

1. Purpose. This CFETP provides information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM Functional Managers (MFMs), commanders, training managers, supervisors and trainers to plan, develop, manage and conduct an effective career field training program. This plan outlines the training individuals in the 1C1X1 AFSC and GS-2152 (job series) should receive in order to develop and progress throughout their career. It also identifies initial skills, upgrade, qualification, advanced and proficiency training. Initial skills training is the specific 1C1X1 training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. This training is conducted by AETC at Keesler AFB. Upgrade training identifies the mandatory courses, task qualification requirements and correspondence course completion requirements for award of the 3-, 5-, 7- and 9-skill levels. Qualification training is actual hands-on task performance training designed to qualify an airman in a specific duty or operating position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills/knowledge required to do the job. Advanced training is formal specialty training used for selected airmen. Proficiency training is additional training, either in-residence or exportable advanced training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade. The CFETP has several purposes, some are:

1.1. Serves as a management tool to plan, manage, conduct and evaluate a career field training program. It is also used to help supervisors identify training at the appropriate point in an individual's career.

1.2. Identifies task and knowledge training requirements for each skill level in the specialty and recommends education/training throughout each phase of an individual's career.

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

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

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

2.1. AETC training personnel will develop/revise formal resident, non-resident, field and exportable training based on requirements established by the users and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.

2.2. Each MFM will ensure their training programs complement the CFETP mandatory initial, upgrade and proficiency requirements. OJT, resident training, contract training or exportable courses can satisfy the identified requirements. MAJCOM-developed training to support this AFSC must be identified for inclusion into this plan.

2.3. Each individual will complete the mandatory training requirements specified in this plan. The lists of courses in Part II will be used as a reference to support training.

3. Student Training Report Card. The Student Training Report Card will be forwarded to first-assignment supervisors to provide a comprehensive report of students' performance during technical school training. The base Enlisted Specialty Training (EST) manager receives the report card on each technical school graduate being assigned to the base and forwards it through the squadron commander to the immediate supervisor. Supervisors use the Training Report Card during the initial evaluation of knowledge and skills. For a more detailed explanation of the report card, supervisors should review AFI 36-2201.

4. Control Tower Operator (CTO) Written Test Results. The Air Traffic Control Operations Training Flight at Keesler AFB will forward CTO written test results directly to the students gaining unit. To obtain a lost written test result report, mail your request to the address below:

Airman Certification Branch
AFS 760
Mike Monroney Aeronautical Center
P.O. Box 25082
Oklahoma City, OK 73125

Initial test results are provided free of charge, however additional requests for any reason require a $1.00 processing fee. Remittance must be in either money order or check payable to the FAA. Specify the applicant's full name, (name under which the test was taken), SSAN, date of birth, graduation date and year, work mailing address of supervisor, a phone number of the person requesting the results and a brief explanation of why the request is being made.

5. Coordination and Approval. The AFCFM is the final approval authority of the CFETP. MAJCOM representatives and AETC training personnel will identify and coordinate on the career field training requirements. The AETC training manager for this specialty will initiate an annual review of this document by AETC and MFMs to ensure currency and accuracy. Report inadequacies through channels to the AFCFM at least 45 days before the anniversary date of the CFETP date (as printed in the upper corner of the CFETP).

Section B --- Career Progression and Information

6. Specialty Descriptions.

6.1. **Specialty Summary.** Controls enroute and terminal air traffic by use of visual, radar and non-radar means. Supervises and manages ATC facilities (AFMAN 36-2108, Attachment 6).

6.2. **Duties and Responsibilities.** Controls and regulates enroute and terminal air traffic. Initiates and issues ATC clearances, instructions and advisories to ensure the safe, orderly and expeditious flow of air traffic operating under instrument and visual flight rules. Plans, organizes, directs, inspects and evaluates ATC activities.

6.2.1. **ATC Superintendent/Chief Enlisted Manager (CEM)**

6.2.1.1. Plans and organizes ATC activities. Provides for use and control of space, equipment, time, supplies and personnel allotted to ATC activities. Analyzes traffic data from ATC facilities. Requisitions and accounts for equipment, space, supplies and other resources required for efficient operation. Designs organizational chart to show lines of authority and to identify specific responsibilities for performing ATC functions.

6.2.1.2. Directs ATC activities. Establishes procedures and performance standards in ATC facilities. Recommends installing, maintaining and removing ATC equipment and facilities.

6.2.1.3. Inspects and evaluates ATC activities. Conducts periodic inspection of ATC activities to determine operational readiness and to provide assistance in solving operation, maintenance, supply and personnel problems. Discusses inspection findings with supervisory personnel and recommends action to correct deficiencies.

6.2.1.4. Advises supervisor on status, maintenance and adequacy of equipment, supplies, training and operational efficiency. Interprets ATC policies for using activities.

6.2.1.5. Controls enroute and terminal air traffic in order to maintain operational awareness and control proficiency.

6.2.2. **ATC Craftsman (7-Skill Level/GS-2152)**

6.2.2.1. Controls enroute and terminal air traffic. Initiates and issues ATC clearances, instructions and advisories to ensure safe, orderly and expeditious flow of air traffic operating under instrument and visual flight rules. Employs air and ground communications, aural, visual and radar systems to control and expedite movement of air

traffic. Releases to and accepts aircraft from other enroute or terminal ATC facilities. Coordinates the status of other ATC facilities.

6.2.2.2. Supervises ATC functions. Ensures the facility is operated in an efficient and professional manner. Effects coordination within the facility and between other facilities or agencies. Exercises general supervision over ATC personnel. Identifies training requirements, ensures training is conducted and certifies training. Ensures pre-duty familiarization and equipment checks are conducted and appropriate agencies are notified of equipment deficiencies. Directs actions of controllers in handling aircraft mishaps, emergencies, bomb threats, fire and similar emergency situations. Implements emergency operational plans and procedures.

6.2.2.3. Performs as upgrade/qualification OJT trainer. OJT trainers for ATC management training (CCTLR, CATCT, TERPS, and CSE) must: be certified on tasks to be trained; possess the appropriate Special Experience Identifier (SEI); complete a formal OJT trainer course; complete AT-M-01 (*Trainer's Qualification Training Package*); be recommended by the supervisor; and be appointed in writing by unit commander (may be delegated in writing to AOF/CC or facility CCTLRs). Initial requirements only pertain to first time trainer qualifications. Local requirement training will be provided to new arrivals that are trainer certified.

6.2.3. ATC Journeyman (5-Skill Level/GS-2152)

6.2.3.1. Controls enroute and terminal air traffic. Initiates and issues ATC clearances, instructions and advisories to air traffic operating under instrument and visual flight rules. Uses air or ground communications, aural, visual and radar systems to control and expedite air traffic. Uses flight plan data, position reports, visual observations and radar displayed data to determine aircraft positions. Issues advisories to pilots, ATC and other agencies concerning weather conditions, Notice To Airman (NOTAM) information, traffic flow control measures, wake turbulence and additional services. Provides flight assistance and emergency service to pilots. Conducts intrafacility and interfacility coordination of clearances, instructions, advisories and aircraft movement information. Maintains operating position forms and records. Performs equipment turn-on and alignment functions.

6.2.3.2. Operates enroute ATC facilities. Uses nonradar and radar procedures to separate and control aircraft along established airways and routes between and over terminal areas. Identifies and integrates aircraft into enroute traffic flow, and releases to and accepts aircraft from enroute or terminal ATC facilities. Provides terminal ATC services, other than control tower services, where terminal facilities are not provided or are inoperative. Provides separation between aircraft occupying airspace in range control centers. Coordinates, plans and approves special user requirements under the altitude reservation concept.

6.2.3.3. Operates Radar Approach Control (RAPCON), Ground Controlled Approach (GCA) and Radar Final Control (RFC) facilities. Uses nonradar and radar procedures to separate and control arriving, departing and enroute aircraft within designated airspace. Radar monitors departing aircraft and aircraft making instrument approaches using other navigational aids. Releases to and accepts aircraft from enroute or control tower facilities.

6.2.3.4. Operates Control Tower facilities. Uses visual and radar procedures to separate and control aircraft operating in the vicinity of an airport and on the movement area. Issues control instructions to provide separation between aircraft and vehicular traffic operating on the aerodrome. Operates field lighting controls, visual signaling devices, aircraft arresting barrier position controls and primary crash alarm system. Releases to and accepts aircraft from enroute or other terminal ATC facilities. Makes tower visibility observations. Maintains continual visual surveillance of the "Class D" surface area and aircraft movement area.

6.2.3.5. Performs as upgrade/qualification OJT trainer. OJT trainers must: be qualified controllers holding AFSC 1C151 or above; must be certified on each task they will train; possess the appropriate Special Experience Identifier (SEI); complete a formal OJT trainer course; be recommended by the supervisor; complete AT-M-01 (*Trainer's Qualification Training Package*); be position certified and/or facility rated; and any facility requirements identified in AFI 13-203, *Air Traffic Control;* and be appointed in writing by the unit commander (may be delegated in writing to AOF/CC or facility CCTLRs). Initial requirements only pertain to first time trainer qualifications. Local requirement training will be provided to new arrivals already trainer certified.

7. Skill/Career Progression.

7.1. Apprentice Training (3-Skill Level).

7.1.1. Initial Skills Training. After basic military training, individuals will complete initial skills training through Course E3AQR1C131 000, PDS Code FOA, and either Course E3ABR1C131T 000, PDS Code TOC, or Course E3ABR1C131R 000, PDS Code RAO, at Keesler AFB, MS. The initial course provides individuals with preparatory knowledge for the follow-on specialized training in the Tower or Radar specialties. The follow-on courses provide specialized knowledge and hands-on training that prepares the student for beginning the job at the apprentice level in either a tower or radar operational environment. The course content is recorded in the STS '3 Level' column, Part II of this CFETP. Personnel must successfully complete a formal Department of Defense (DoD) or Department of Transportation (DOT) basic ATC Course to be awarded AFSC 1C131.

7.1.2. Apprentice controllers must be assigned to Functional Account Code (FAC) 13E125 once assigned to their duty location.

7.1.3. Upon arrival, acclimate the trainee to the new work environment by ensuring the trainee has sufficient time to become familiar with their new surroundings and complete base/unit in-processing and orientation. Familiarize apprentice controllers with their organization and its mission. Units must develop an apprentice controller indoctrination program using AT-M-08, *Indoctrination Program,* and the existing familiarization program as guides. The program must be meaningful to both apprentice and skilled controllers. Conduct initial evaluations IAW AFI 36-2201 and AFI 13-203. Discuss training goals, trainee's responsibilities, training time, training records, promotion, withdrawal procedures and crew policies.

7.1.4. Immediately following the facility indoctrination program, 3-skill level apprentice controllers may, with supervisor and CCTLR approval, begin training for the appropriate facility rating/special experience identifier (SEI). Apprentice controllers in UGT may work unmonitored once training requirements are completed for the award of the SEI. An apprentice controller who holds AFSC 1C131 (CTO requires 6 months) and current ratings or certifications and has been awarded the appropriate SEI is considered a "qualified controller." These requirements are the minimum. Qualified controllers should gain additional job experience and knowledge and obtain other facility of assignment certifications after the position certifications are met for the award of the SEI.

7.1.5. Following the award of the SEI, individuals may be considered for facility OJT trainer duty after 60 days of operational experience and training requirements IAW AFI 13-203.

7.2. Journeyman Training (5-Skill Level).

7.2.1. Upgrade training to the 5-skill level may begin immediately after the individual is assigned to their first ATC duty location. For apprentice controllers to be eligible for upgrade to the 5-skill level, individuals must complete at least 15 months UGT, all training requirements listed in the CFETP and those identified by the supervisor in the STS and all requirements identified in AFI 13-203. Retrainees require only 9 months of UGT as long as all other requirements are met.

7.2.2. Individuals will normally attend an Airman Leadership Course after assuming the rank of SrA and completing 48 months of service, upon first reenlistment or when selected for promotion to Staff Sergeant (SSgt). The Air National Guard may substitute this course with a non-resident Airman Leadership School (ALS). Completion of ALS is mandatory prior to assuming the rank of SSgt. Once individuals assume the rank of SrA, they are authorized to supervise personnel.

7.2.3. Following award of the 5-skill level, individuals may be considered for ATC instructor duty; ACATCT, ATC Systems Specialist (ATCSS), and facility OJT trainer.

7.3. Craftsman (7-Skill Level).

11

7.3.1. Personnel are entered into 7-skill level upgrade training upon selection to SSgt (not earlier than the first day of the promotion cycle). For controllers to be eligible for upgrade to the 7-skill level, individuals must complete: a minimum of 12 months in UGT; all training requirements identified in E6ACS1C171 000, *Air Traffic Control Craftsman Course* and Airman Leadership School.

7.3.2. Upon award of the 7-skill level individuals may be selected to perform duty as Watch Supervisor (WS), Senior Controller (SC), Chief, ATC Training (CATCT), Chief, Standardization and Evaluation (CSE), Chief Controller (CCTLR), Chief, ATC Automation (CATCA), and Terminal Instrument Procedure Specialist (TERPS) after completing the appropriate training qualification package. Other career opportunities include Automated Systems Supervisors and Combat Airspace Manager.

7.3.3 Prior to assuming the rank of TSgt, individuals must be awarded a 7-skill level. The primary function performed by a TSgt in ATC is facility watch supervisor.

7.3.4. Prior to assuming the rank of MSgt, individuals must complete the NCO Academy (NCOA). The Air National Guard may substitute a non-resident NCOA Course. MSgts are permitted to complete the senior NCO Academy (SNCOA) Correspondence course. However, completion will not replace in-resident SNCOA attendance upon selection or promotion to SMSgt. Selected individuals, normally MSgt and above, may be considered for HQ AFFSA, MAJCOM and Numbered Air Force (NAF) ATC staffs.

7.4. Superintendent (9-Skill Level).

7.4.1. The 9-skill level is awarded when individuals assume the rank of Senior Master Sergeant (SMSgt). Air National Guard commanders may opt for SNCOs to complete the non-resident SNCOA course in lieu of attending the resident course. The primary function performed by SMSgts in ATC is facility chief controller.

7.5. Chief Enlisted Manager Training (CEM 1C100). This individual will be awarded AFSC 1C100 once selected for Chief Master Sergeant (CMSgt). Individuals must complete the SNCOA in-residence prior to assuming the rank of CMSgt. Air National Guard may substitute the non-resident SNCOA Course. The primary function performed by CMSgts in ATC is radar approach control chief controller (or selection to NAF, MAJCOM or Air Force Staff). Specific qualifications and responsibilities are outlined in AFMAN 36-2108, Attachment 42.

8. Training Decisions. The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the ATC career field. The spectrum includes a strategy for when, where and how to meet the training requirements. The strategy must be apparent, reduce duplication of training and eliminate a fragmented approach to training.

8.1. The ATC Apprentice Course curriculum was entirely restructured into a specialized training format. Personnel will enter the ATC School and complete a block of instruction that includes basic tower and radar concepts to include how they are operationally and procedurally connected. Students will continue through the technical school environment in either a tower or radar learning track. The proficiency codes, "K" for knowledge, "P" for performance and "pk" for performance/knowledge have been eliminated and replaced with the standardized alpha/numeric coding system. The apprentice course has a standardization and evaluation section, comprised of instructors and instructor supervisors and is devoted to evaluating students during performance testing and ensuring all lecture, performance instruction and written tests are standardized and enforced equally.

8.2. For changes to 5-skill level upgrade training see paragraphs 7.1. and 7.2.

8.3. **Proficiency Training.** Training in addition to initial, UGT and qualification requirements—entails maintaining knowledge and performance ATC capabilities at or above the standards prescribed in published technical school or facility certification guides.

8.4 **Retraining Personnel.** Minimum upgrade requirements for retraining, regardless of rank and AFSC, will consist of 9 months for 5-skill level upgrade training and 12 months for 7-skill level upgrade training. All

mandatory requirements, including rank requirements, for the applicable skill level must be completed prior to award of the skill level.

9. Community College of the Air Force. Enrollment in CCAF occurs upon completion of basic military training (BMT). CCAF provides the opportunity to obtain an Associate in Applied Sciences Degree. In addition to its associate's degree program, CCAF offers the following:

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

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

9.3. Degree Requirements. All airmen are automatically entered into the CCAF program. Prior to completing an associate degree in Airway Science, the following requirements must be met:

9.3.1. Award of an air traffic control 5-skill level.

9.3.2. Meet the current year CCAF General Catalog program requirements.

9.3.2.1. **Technical Education (24 Semester Hours):** A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective subjects/courses. Requests to substitute subjects/courses must be approved in advance by the Technical Branch.

9.3.2.2. **Leadership, Management and Military Studies (6 Semester Hours):** Professional military education and/or civilian management courses. The preferred method of completing this requirement is through attendance at an Airman Leadership School, Major Command NCO Academy and/or Air Force Senior NCO Academy. However, civilian courses that emphasize fundamentals of managing human or material resources may also be applicable. See the CCAF General Catalog for application.

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

9.3.2.4. **General Education (15 Semester Hours):** Courses must meet the criteria for application to the General Education Requirements (GER) and be in agreement with definitions of applicable general education subjects/courses as provided in the CCAF General Catalog. An intermediate algebra or college-level mathematics course is required. If an acceptable mathematics course is applied as a technical or Program Elective, a natural science course meeting GER application criteria may be applied.

9.3.2.5. **Program Elective (15 Semester Hours):** This requirement is satisfied with applicable Technical Education, Leadership, Management and Military Studies; or General Education subjects/courses, including natural science courses meeting GER application criteria. Six semester hours of CCAF degree-applicable technical credit otherwise not applicable to the program may be applied. NOTE: CCAF requirements are subject to change. See current CCAF catalog.

9.4. Off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an AETC Instructor should actively pursue an associate degree. University faculty must have appropriate degree credentials necessary to maintain accreditation through the Southern Association of Colleges and Schools.

2000-01 CCAF General Catalog Program Requirements

Study Areas	Semester Hours
Technical Education	24
Leadership, Management, and Military Studies	6
Physical Education	4
General Education	15
Program Elective	15
Total Hours	**64**

Technical Core

Subjects/Courses	Semester Hours
Aeronautical Laws and Regulations/Legislation	6
Air Navigational Aids	3
Air Traffic Control Principles	9
Air Transportation	3
Airport Management	3
CCAF Internship	16
Hostile Environment Techniques	3
Radar Approach Control	6

Technical Electives

Subjects/Courses	Semester Hours
Advanced Flight Operations or Commercial Pilot's License	9
AF Enlisted Professional Military Education	12
Aviation/Flight Safety	3
Basic Electronic Theory/Application	3
Basic Flight Operations or Private Pilot's License	3
Climatology/Meteorology	3
Computer Science	6
FCC General Radio/Telephone Operator's License	9
Technical Writing	3

General Education Requirements

Subjects/Courses	Semester Hours
Oral Communication	3
Written Communication	3
Mathematics	3
Social Science	3
Humanities	3

10. Air Traffic Control Career Field Path. The following flowchart depicts the specialty's career path. This career path outlines when training is required for each level and function within this specialty.

CAREER FIELD FLOW CHART

CMSGT

SMSGT

MSGT

TSGT

SSGT

SRA

RAPCON CCTLR

TOWER CCTLR

GCA CCTLR

9 Level

HQ AFFSA/ MAJCOM

CATCA   CATCT   CSE   TSN

MAJCOM/UNIT TERPS NCO

AIRSPACE MANAGEMENT

WATCH SUPERVISOR

ATC AUTOMATION

ATC INSTRUCTOR

TRAINER

7 Level

5 Level

CONTROLLER (TOWER/RAPCON/GCA/RFC)

3 level

AIR TRAFFIC CONTROL APPRENTICE COURSE
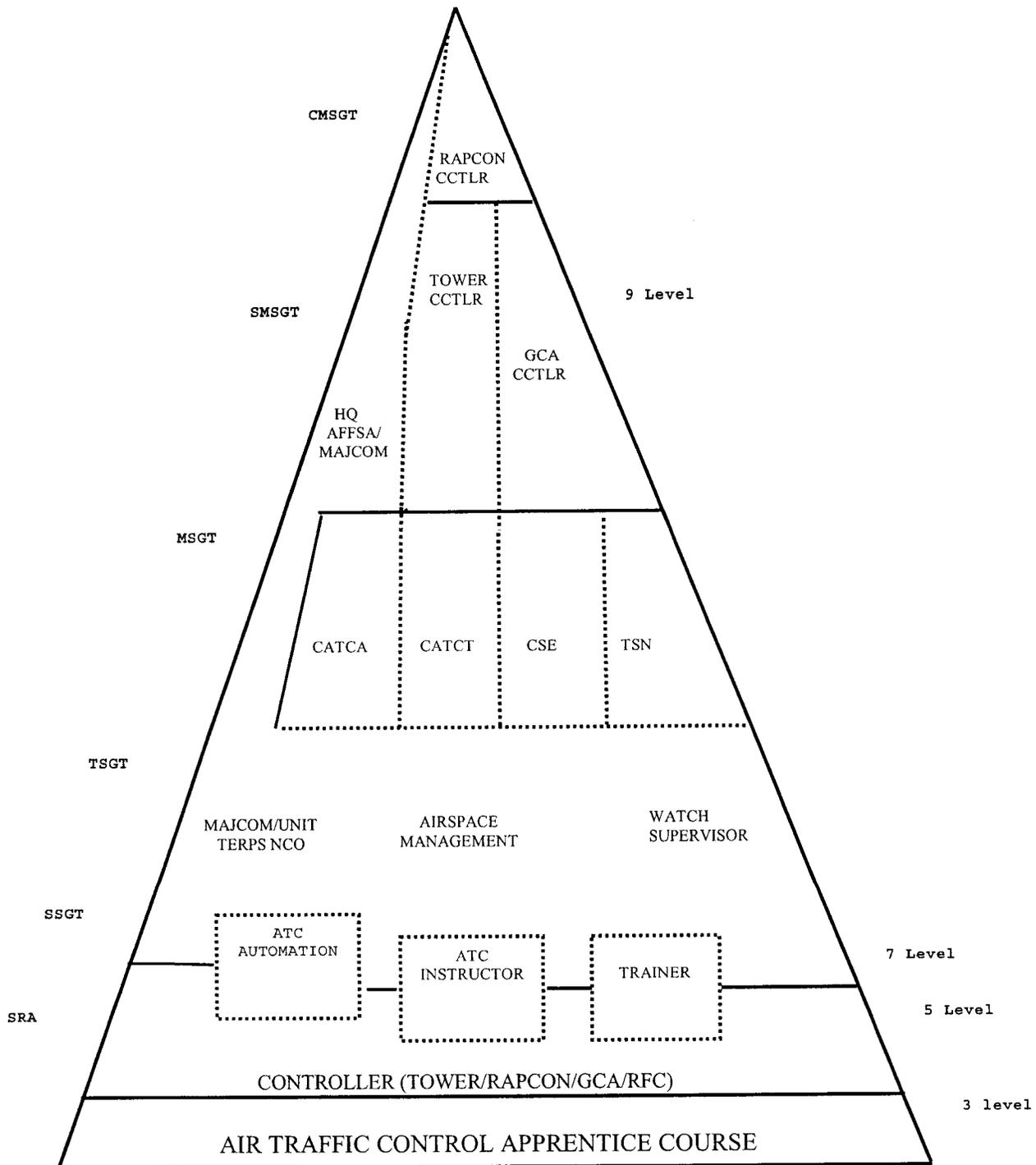
Section C — Skill Level Training Requirements

11. Purpose. Skill level training requirements in air traffic control 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 Course Objective List (COL) and STS, Part II, Sections A and B of this CFETP.

12. Specialty Qualification Requirements.

12.1. **Apprentice (3-Skill Level)/Journeyman (5- Skill Level).**

12.1.1. **Specialty Qualifications.**

12.1.1.1. **Knowledge.** Knowledge of ATC principles and procedures, flight characteristics of aircraft, International Civil Aviation Organization and United States federal and military air regulations, aeronautical chart usage, maps and publications, interpretation, use, and limitations of ATC radar, ATC communications systems and navigational aids, and fundamentals of meteorology is mandatory. Completion of a formal Department of Defense (DoD) or Department of Transportation (DOT) basic ATC Course satisfies this mandatory knowledge.

12.1.1.2. **Education.** For entry into this specialty, completion of high school with courses in English is desirable.

12.1.1.3. **Training.** For award of AFSC 1C131, completion of an ATC operator course is mandatory. Completion of the ATC Operations Apprentice Course E3AQR1C131 000, PDS Code FOA, and either Course E3ABR1C131T 000, PDS Code TOC, or Course E3ABR1C131R 000, PDS Code RAO is required. Completion of the applicable STS task items is required. Prior to award of the 5-skill level, apprentice controllers must be awarded the appropriate facility special experience identifier (SEI) according to AFI 36-2108, Attachment 40.

12.1.1.4. **Experience.** Apprentice controllers may enter 5-skill level upgrade training immediately after graduating technical school and upon completion of an initial evaluation. Individuals in 5-skill level upgrade training must complete a minimum of 15 months in upgrade training (retrainees a minimum of 9 months). Apprentice controllers must perform functions involving actual control of aircraft for upgrade to the 5-skill level.

12.1.1.5. **Other.** The following are mandatory as indicated:

12.1.1.5.1. For entry, award, and retention of this AFSC, physical qualification for ATC operation according to AFI 48-123, *Medical Examination and Standard.*

12.1.1.5.2. For performance of ATC duties, possession of a Federal Aviation Administration Air Traffic Control Specialist Certificate.

12.1.1.5.3. For award and retention of AFSCs 1C131/51/71/91/00, eligibility for a secret security clearance according to AFI 31-501, *Personnel Security Program Management.*

12.1.2. **Training Sources/Resources.** Completion of the ATC Operations Apprentice Course, E3AQR1C131 000, PDS Code FOA, and either Course E3ABR1C131T 000, PDS Code TOC, or Course E3ABR1C131R 000, PDS Code RAO satisfies the knowledge and training requirements specified in the specialty qualification section for award of the 3-skill level. The COL, Part II Section B of this CFETP identifies all the knowledge and tasks, with their respective standards. A list of training courses to support this career field is in Part II, Section D of this CFETP.

12.1.3. **Implementation.** Entry into initial skills training is through the Air Force Training Management System (AFTMS). After graduation from the apprentice course, 5-skill level upgrade training begins immediately after

individuals are assigned to their first duty assignment. Thereafter, it is initiated anytime individuals are assigned duties they are not qualified to perform.

12.2. Craftsman (7-Skill Level).

12.2.1. Specialty Qualifications.

12.2.1.1. **Knowledge.** Knowledge of ATC principles and procedures, flight characteristics of aircraft, International Civil Aviation Organization and United States federal and military air regulations, aeronautical chart usage, maps and publications, interpretations, use, and limitations of ATC radar, ATC communications systems and navigational aids, and fundamentals of meteorology is mandatory. United States Air Force certification as an ATC specialist satisfies this mandatory knowledge. Must know principles of organization, purpose, operation, and management of ATC facilities.

12.2.1.2. **Education.** For entry into this specialty, completion of high school with courses in English is desirable. To assume the grade of SSgt or MSgt, individuals must be graduates of an Airman Leadership School or NCO Academy, respectively. Air National Guard may substitute the non-resident courses.

12.2.1.3. **Training.** Individuals in 7-skill level upgrade training must complete a minimum of 12 months upgrade training. Completion of E6ACS1C171 000, *Air Traffic Control Craftsman Course* is mandatory. This is a Computer Based Instruction (CBI) course.

12.2.1.4. **Experience.** Qualification as an ATC journeyman is mandatory. Experience in supervising or performing ATC functions is mandatory for upgrade to the 7-skill level.

12.2.1.5. **Other.** The following are mandatory as indicated:

12.2.1.5.1. For entry, award, and retention of this AFSC, physical qualification for ATC operation according to AFI 48-123, *Medical Examination and Standard.*

12.2.1.5.2. For performance of ATC duties, possession of a Federal Aviation Administration Air Traffic Control Specialist Certificate.

12.2.1.5.3. For award and retention of AFSCs 1C131/51/71/91/00, eligibility for a secret security clearance according to AFI 31-501, *Personnel Security Program Management.*

12.2.2. **Training Sources/Resources.** E6ACS1C171 000, *Air Traffic Control Craftsman Course* satisfies the knowledge and training requirements specified above. A list of all training courses to support this career field is in Part II, Section D.

12.2.3. **Implementation.** Entry into upgrade training is initiated when an individual possesses the 5-skill level and is selected for SSgt (training can not begin until the first day of the promotion cycle). See paragraph 7.3 for specific details on 7-skill level UGT.

12.3. Superintendent (9-Skill Level).

12.3.1. Specialty Qualifications.

12.3.1.1. **Knowledge.** Knowledge of ATC principles and procedures, flight characteristics of aircraft, International Civil Aviation Organization and United States federal and military air regulations, aeronautical chart usage, maps and publications, interpretation, use, and limitations of ATC radar, characteristics and use of ATC communications systems and navigational aids and fundamentals and principles of meteorology is mandatory. United States Air Force certification as an ATC specialist satisfies this mandatory knowledge. Must know principles of organization, purpose, operation and management of ATC facilities.

12.3.1.2.		**Education.** The 9-skill level is awarded when individuals assume the rank of Senior Master Sergeant (SMSgt).

12.3.1.3. **Training.** No additional training requirements are mandatory for award of the 9-skill level AFSC.

12.3.1.4. **Experience.** Qualification as an ATC craftsman and experience in managing ATC functions is mandatory.

12.3.1.5. **Other.** The following are mandatory as indicated:

12.3.1.5.1. For entry, award, and retention of this AFSC, physical qualification for ATC operation according to AFI 48-123, *Medical Examination and Standard.*

12.3.1.5.2. For performance of ATC duties, possession of a Federal Aviation Administration Air Traffic Control Specialist Certificate.

12.3.1.5.3. For award and retention of AFSCs 1C131/51/71/91/00, eligibility for a secret security clearance according to AFI 31-501, *Personnel Security Program Management.*

12.3.2. **Training Sources/Resources.** SNCOA is located at Gunter AFB, AL. A list of all training courses to support this career field is in Part II, Section D.

12.3.3. **Implementation.** See paragraph 7.4 for 9-skill level UGT requirements.

Section D --- Resource Constraints

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

13. 1. **Apprentice (3) Level Training Constraints.**

13.1.1. The student/instructor ratio at the technical school could be a constraint if manning requirements increase above those already established. Controller availability and command funding may slow the technical school's ability to react to an increase in graduates.

13.2. **Journeyman (5) Level Training Constraints.**

13.2.1. The ability to train the increase in technical school graduates is limited to the available number of trainers in the field. Deployments and contingencies place a strain on the career field to effectively provide an adequate number of trainers.

13.3. **Craftsman (7) Level Training Constraints.**

13.3.1. No 7-Level constraints exist.

13.4. **Superintendent (9) Level Training Constraints.**

13.4.1. No 9-Level constraints exist.

Section E --- Transitional Training Guide

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

Part II

Section A – Specialty Training Standard (STS) 1C1X1

1. Implementation. This STS will be used for technical training provided by AETC for the 3-skill level Air Traffic Control Apprentice course beginning 20011001 and graduating 20020201.

2. Purpose. As prescribed in AFI 36-2201 and AFI 13-203, this STS provides information on the tasks necessary for airman to perform duties in the 3-, 5- and 7-skill level. STS includes training standards, specialty/general core tasks and technical references to conduct training. The STS identifies those common core knowledge/tasks required to obtain position certification/facility ratings.

2.1. Information in column 1 (*Task, Knowledge, and Technical Reference*) identifies common ATC tasks, knowledge and technical references (TR). Column 2 (*Core/Wartime Tasks*) identifies specialty-wide training requirements.

2.2. Column 3 is used to record completion of tasks and knowledge training requirements. Task certification, as a minimum, must show Start Date (if applicable), Training Completion Date, Trainee and Trainer Initials.

2.3. Column 4 shows formal training and the proficiency to be demonstrated on the job by the graduate.

2.4. Proficiency Format Coding System. Indicates the level of training and knowledge provided by the resident training courses. This coding system represents the contract between the AFCFM and the course providers. The coding matches the itemized teaching objectives of the (COL). The COL is in PART II, Section B of the CFETP.

2.5. Promotion Tests. The STS also serves as a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron by senior NCOs with extensive practical experience in their career fields. The test samples subject matter areas judged by test development members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the WAPS catalog. Individual responsibilities are in chapter 14 of AFI 36-2606, US Air Force Reenlistment, Retention and NCO Status Programs. WAPS is not applicable to the Air Reserve Component.

2.6. Recommendations. Comments and recommendations are invited concerning the quality of AETC training. A Customer Service Information Line (CSIL) has been installed for the supervisors' convenience. For a quick response to concerns, call CSIL at DSN 597-4566, or fax DSN 597-3790, or e-mail at, 81trg-tget@keesler.af.mil. Reference this CTS/STS and identify the specific area of concern (paragraph, training standard element, etc).

3. STS Procedures.

3.1. DOCUMENTATION: Use the identification blocks to identify the trainee and the trainer. Entries made on the identification page must be in pen; make all remaining entries in pencil. Each task has corresponding columns for tower and radar. Document in the appropriate facility columns. When training is started on a task, enter the training start date (TSD). When facility training is complete, the trainer will enter the training completion date (TCD) and initial the trainer block and the trainee will initial in the trainee initial block. As a minimum, complete the following columns in the STS: Start Date (if applicable), Training Completion Date, Trainee and Trainer Initials.

3.1.1. Identify duty position requirements by circling, in pencil, the subparagraph number next to the task statement.

3.2. CERTIFICATION PROCEDURES: The STS is the primary training source document to record those knowledge/task certifications necessary for position certification and facility ratings. Certification guides and AF Form 623a (or suitable substitute) are the source documents for certifying a task(s) until the controller completes all required facility training for that task. When facility training is complete on a task, certify completion in the STS. The Air Force Career Field Manager (HQ AFFSA/XAF) has identified specialty or general core tasks items. An asterisk (*) next to a task indicates a specialty or general core task requirement for the AFSC and can only be deferred by the ATC Air Force Career Field Manager. Chief Controllers can only defer knowledge/tasks that are not identified by an asterisk (*). Deferred tasks must be identified in the master training plan STS by a pound symbol (#). Deferred items must be reevaluated at each new duty location.

3.3. QUALIFICATION STANDARD: Train and qualify personnel to the Go/No Go standard established in the appropriate certification guide. "Go" means that the individual can perform the task without assistance and meets local requirements for accuracy, timeliness and correct use of procedures.

3.4. SUPPLEMENTS: MAJCOMs and below may supplement this STS to add command and local requirements. Those tasks identified for local application must be documented on AF Form 797 and included in the associated certification guide according to AFI 13-203.

3.5. TECHNICAL REFERENCE (TR): The Chief, Air Traffic Control Training must identify all TR(s) for each knowledge/task contained in this STS and AF Form 797. Enter all TR(s) into one master task listing and each associated certification guide. The CATCT must maintain a copy of this CFETP in the Master Training Plan according to AFI 13-203.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL   **CHRALES F. WALD, Lt General, USAF**
                                                    Deputy Chief of Staff, Air & Space Operations

TRAINEE NAME (Last, First, MI)	Initials	SSAN

TRAINER AND CERTIFYING OFFICIAL (PRINTED NAME)	WRITTEN INITIALS

STS E3AQR1C131-000/E3ABR1C131T-000/E3ABR1C131R-000/E3AQR1C231-001
AIR TRAFFIC CONTROL APPRENTICE/COMBAT CONTROL APPRENTICE/GS-2152
QUALITATIVE REQUIREMENTS
Tasks, Knowledge and Proficiency Level

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. (COMPLETE 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)
NOTE 1: An asterisk sign (*) in column 2 indicates a specialty/general core task.		
NOTE 2: All tasks in this specialty training standard are considered a wartime task.		

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
1. OPERATIONS SECURITY AFI 10-1101												
1.1. Definition										B		
1.2. 1C1X1 Vulnerabilities										B		
2. AIR TRAFFIC CONTROL PUBLICATIONS AFI 13-203; AFI 11-201; FLIPS												
2.1. Facility Publications										B		
2.2. Flight Information Publications										B		
3. OPERATIONAL AREAS FAAO 7110.65; AIM; AFI 13-203; CBT-G-22; AT-G-02; CBT-E-1												
3.1. Class A Airspace										B		
3.2. Class B Airspace										B		
3.3. Class C Airspace										B		
3.4. Class D Airspace										B		
3.5. Class E Airspace										B		
3.6. Class G Airspace										B		
3.7. National Airspace System										B		
3.8. Air Defense Identification Zone												
3.9. Flight Information Region												
3.10. Airports Affecting Operations	*									B		
3.11. Adjacent Airspace	*									B		
3.12. ATC Facilities	*									B		
3.13. Taxiways										B		
3.14. Runways/Helipads	*									B		

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
3.15. Ramps and Parking Areas										B		
3.16. Field Elevation	*									B		
3.17. Visual and Radio Blind Spots										B	1b	
3.18. Aircraft Arresting Systems										B		
3.19. Airport Lighting										B	2b	
3.20. Ground NAVAID Checkpoints												
3.21. Restricted Airspace										A		
3.22. Warning Areas										A		
3.23. Alert Areas										A		
3.24. Prohibited Areas										A		
3.25. Controlled Firing Area										A		
3.26. Military Operations Area										B		2b
3.27. Special Use/ATC Assigned Airspace										A		
3.28. Military Training Routes										A		
3.29. Temporary Flight Restrictions												
3.30. Traffic Patterns	*									B	3b	3b
3.31. Bailout										A		
3.32. External Stores Jettison										A		
3.33. Fuel Dump										A		
3.34. Hot Brakes										A		
3.35. Arm/Dearm										A		
3.36. Dangerous Cargo										A		
3.37. Alert Pads										A		

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
3.38. Drop Zones										A		
3.39. Hydrazine Areas										A		
3.40. Parachute Jumping										A		
3.41. Precision Approach Critical Areas										B		
4. AIR NAVIGATIONAL AIDS FAAO 7110.65; AFI 13-203; AIM												
4.1. VOR										B		
4.2. TACAN										B		
4.3. VORTAC										B		
4.4. NDB										B		
4.5. ILS										B		
4.6. GPS										B		
4.7. MLS/MMLS										B		
4.8. NAVAID Use Limitations										B		
4.9. NAVAID Malfunction Procedures										B		
4.10. Area Navigation												
4.11. Jet Routes and Airways										B		
4.12. Minimum Vectoring Altitude/ IFR Chart										B		
4.13. Minimum Enroute Altitude										B		
4.14. Minimum Obstruction Clearance Altitude										B		
4.15. Minimum Reception Altitude										B		
4.16. Minimum Crossing Altitude										B		
4.17. Reporting Points										B		

| Tasks, Knowledge and References | Core Tasks | Certification For OJT | | | | | | | | Technical School Proficiency Codes | | |
| | | Tower | | | | Radar | | | | 3 Level | | |
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
4.18. Coordination Fixes										B		
5. EQUIPMENT OPERATION FAAO 7110.65; AFI 13-203; AT-E-14/16; AT-E-2/3//9/10; AT-G-21												
5.1. Surveillance Radar System										B		
5.2. Primary Radar Capabilities										B		
5.3. Alignment of Primary Radar										B		
5.4. Electronic Cursor Procedures										B		
5.5. Secondary Radar Capabilities										B		
5.6. Alignment of Secondary Radar										B		
5.7. Beacon Range Accuracy										B		
5.8. Master Control Panel												
5.9. Beacon Target Displacement Procedures										B		
5.10. PIDP										B		2b
5.11. Precision Approach Radar Capabilities										B		
5.12. PAR Alignment												
5.13. PAR Turnaround Procedures												
5.14. Video Mapper										A		
5.15. Flight Data System										A		
5.16. Tower/Radar Coordination System										B	3b	3b
5.17. Remote Status Indicators										B		
5.18. Automatic Terminal Information Service										A	2b	
5.19. Weather Dissemination System	*									A		
5.20. Weather Equipment												

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
5.21. Wind Indicators	*									A		
5.22. Light Guns										B	2b	
5.23. Radio/Landlines	*									A		
5.24. Clocks	*									A		
5.25. Intercoms												
5.26. Primary Crash Phone										B	2b	
5.27. Tower Radar Displays										B	2b	
5.28. Recorders										B		
5.29. Air Traffic Control Simulator												2b
5.30. FM Nets										A		
5.31. Auxiliary Power Source	*									A		
5.32. Evacuation Alarms										A		
5.33. Report Equipment Outages	*									A		
6. WEATHER FAAO 7110.65; AFI 15-111; AFJH 11-203V1; AT-G-60; AT-G-61; CBT-G-14												
6.1. Cooperative Weather Watch										A		
6.2. Effect of Weather on Aircraft	*									B		
6.3. Disseminate Weather Information	*									B	3b	3b
6.4. Visibility Checkpoint Charts										B	2b	
6.5. Sector Visibility										B	2b	
6.6. Prevailing Visibility										B	2b	
6.7. Pilot Reports	*									B	2b	2b
6.8. Low Level Wind Shear Advisory	*									B		

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
6.9. Braking Action Advisory	*									B	2b	
6.10. Runway Visual Range										B	2b	1a
6.11. Runway Visual Values										B	2b	1a
6.12. Hazardous In-Flight Weather Advisory Service										A		
6.13. Weather and Chaff Advisory										A		
7. OPERATING PROCEDURES FAAO 7110.65; FAAO 7135.65; FAAO 8200.1; AFI 10-707; AFI 13-203; AFI 13-207; CBT-A-2/6; CBT-R-7/11; CBT-G-18; CBT-T-1/2/3/4/5; CBT-G-5/6/7/10/12/13; FAR Part 91; AFI 11-202V3												
7.1. Control Tower Operator Certification Procedures										A		
7.2. General Flight Rules	*									B		
7.3. Visual Flight Rules	*									B		
7.4. Instrument Flight Rules	*									B		
7.5. Radio and Frequency Channelization										A		
7.6. ATC Communication Procedures (radios/landlines)										B	3c	3b
7.7. Inter/Intra Facility Coordination	*									B	3c	3b
7.8. Aircraft Priorities	*									B		
7.9. Aircraft Characteristics	*									B		
7.10. Facility Evacuation Procedures	*											
7.11. Alternate Facility												
7.12. Facility Checklists	*									B		
7.13. Runway Observation Monitor												
7.14. Facility Forms	*									B		

| Tasks, Knowledge and References | Core Tasks | Certification For OJT | | | | | | | | Technical School Proficiency Codes | | |
| | | Tower | | | | Radar | | | | 3 Level | | |
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
7.15. Flight Progress Strips	*									B	3c	3c
7.16. Transponder Procedures/ Operations										B	2b	3c
7.17. Beacon Codes										B	2b	3c
7.18. Transfer Control of Aircraft	*									B	2b	2b
7.19. Coordinate Use of Airspace	*									B	2b	2b
7.20. Closed/Unsafe Runway Information	*									B	2b	
7.21. Airport, Obstruction, Field Condition Information	*									B	3c	3c
7.22. NOTAMs	*									B		
7.23. In-Flight Equipment Malfunctions										B		
7.24. Locate/Plot Sites Using Crash Grid Maps										B	2b	
7.25. NORDO Aircraft Procedures	*									B	2b	2b
7.26. Communications Failure Procedures	*									B	2b	2b
7.27. Receiver Only Acknowledgement Procedures	*									B	2b	2b
7.28. Emergency Aircraft Operations	*									B	2b	2b
7.29. Expeditious Compliance	*									B	2b	2b
7.30. Emergency Locator Transmitter (ELT) Signals	*									B		
7.31. Emergency Fuel Operations	*									B	2b	2b
7.32. Minimum Fuel Operations	*									B	2b	2b
7.33. Observed Abnormalities										B	3c	
7.34. Provide Assistance to VFR Aircraft in Weather Difficulty	*									B	2b	2b
7.35. Overdue Aircraft Procedures										B		
7.36. Anti-Hijack Procedures	*									B		
7.37. TCAS Resolution Advisories										B		

| Tasks, Knowledge and References | Core Tasks | Certification For OJT | | | | | | | | Technical School Proficiency Codes | | |
| | | Tower | | | | Radar | | | | 3 Level | | |
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
7.38. Facility Bomb Threats	*									B		
7.39. Aircraft Bomb Threats	*									B		
7.40. Climb to VFR Instructions										A		
7.41. Special VFR Procedures	*									B	2b	2b
7.42. Maintain Surveillance of Surface Area										B	3c	
7.43. Maintain Surveillance of Movement Area										B	3c	
7.44. Respond to Operational Requests	*									B	3c	3c
7.45. Provide Additional Services	*									B	2b	2b
7.46. Bird Advisory Information	*									B	2b	2b
7.47. Protect Overhead Traffic Pattern										B	2b	2b
7.48. Traffic Advisories	*									B	2b	2b
7.49. Safety Alerts	*									B	2b	2b
7.50. Divert Advisories												
7.51. Requests for Information from Non-ATC Agencies												
7.52. Aircraft Conducting Unusual Maneuvers												
7.53. Single Frequency Approaches										B		
7.54. Minimum Distance Without Final Clearance	*									B	2b	2b
7.55. VFR-on-Top Aircraft										A		
7.56. Missed Approach Instructions										B		2b
7.57. Control Vehicles, Equipment, Personnel										B	2b	
7.58. Wheels Check	*									B	3c	3c
7.59. Determine Aircraft Position on Airfield										A	3c	
7.60. Use of Active Runways										B	2b	

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
7.61. Runway Selection Procedures										B		
7.62. Issue Landing Clearance	*									B	3c	3c
7.63. Cancel Landing Clearance	*									B	3c	3c
7.64. Landing Information	*									B	3c	3c
7.65. Landing Clearance Without Visual Observation										B	2b	
7.66. Altitude Restricted Low Approaches	*									B	2b	2b
7.67. Altimeter Setting	*									B	3c	3c
7.68. Transfer Position Responsibility	*									B	3c	3c
7.69. Pre-Duty Familiarization	*									B		
7.70. Visual Separation	*									B	2b	2c
7.71. Coordinate Aircraft Movement	*									B	3b	3b
7.72. Wake Turbulence Separation	*									B	3b	2c
7.73. Wake Turbulence Cautionary Advisory	*									B	3b	3b
7.74. Intersecting Runway Separation										B		
7.75. Runway Exiting Instruction										B	3c	
7.76. Sequence Arrivals/Departures	*									B	3b	2c
7.77. Separate Arrivals/Departures	*									B	3b	2c
7.78. Simulated Flameout Arrivals										B	2b	2b
7.79. Formation Flights										B	2b	2b
7.80. Helicopter Operations									.	B	2b	
7.81. VFR Transitions										A		
7.82. Departure Procedures/ Standard Terminal Arrival Routes										B	2b	2c
7.83. Taxi Into Position and Hold										B	2b	

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
7.84. Go-Around Instructions										B	2b	
7.85. Simultaneous Same Direction Operations										B	2b	
7.86. Simultaneous Opposite Direction Operations										B		
7.87. Departure Information										B	2b	3c
7.88. Departure Control Instructions										B	2b	2c
7.89. Reduced Same Runway Separation										B		
7.90. Taxi Operations										B	2b	
7.91. IFR Clearance Data							-			B	2b	2b
7.92. Departure Clearances										B	2b	2b
7.93. Amendment to Clearances										B	2b	2b
7.94. Departure Restrictions, Clearance Void Times, Hold for Release Times, Release Times										B	2b	2b
7.95. VFR Release of IFR Aircraft										B		
7.96. Visual Approaches										B	2b	2b
7.97. Circling Approaches										B		
7.98. Final Approach Abnormalities										B		2b
7.99. Basic Radar Service to VFR Aircraft										B		2b
7.100. ECM/ECCM Procedures	*											
7.101. Radar Identification Procedures										B		2b
7.102. Handoff Procedures										B		2b
7.103. Point-Out Procedures										B		2b
7.104. Confirm Aircraft Identification										B		2b
7.105. Terminate Radar Service										B		2b
7.106. Vector Aircraft										B		2b

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
7.107. Separate Nonparticipating Aircraft From Special Use and ATC Assigned Airspace										B		2b
7.108. Obstruction Separation										B		2b
7.109. Adjacent Airspace Separation										B		2b
7.110. Edge of Scope Separation										B		
7.111. Altitude Verification Procedures										B		2b
7.112. Holding Instructions										B		2b
7.113. Holding Pattern Surveillance										B		2b
7.114. Approach/Arrival Information										B		3b
7.115. Approach/Arrival Clearance										B		2b
7.116. Arrival Instructions										B		2b
7.117. Instrument Approaches										B		2b
7.118. VFR Practice Approaches										B		
7.119. Radar Approaches										B		2b
7.120. Radar Departures										B		2b
7.121. Successive/Simultaneous Departures										B	2b	
7.122. Control Departure/Arrival on Parallel, Non-Intersecting, Diverging Runways										B	2b	
7.123. No-Gyro Procedures										B		2b
7.124. Position Advisories										B		3c
7.125. Successive Approach Procedures										B		2b
7.126. Validate Mode C Readouts										B		2b
7.127. Altitude Reservations												
7.128. Final Approach Course Intercept										B		2b

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
7.129. Merging Target Procedures										B		2b
7.130. Speed Adjustments										B		2b
7.131. Airborne Radar Approaches												
7.132. Lowest Usable Flight Levels										B		
7.133. Flight Inspection	*									A		
7.134. Aircraft Carrying Dangerous Materials										A	2b	1b
7.135. MITO Operations												
7.136. MARSA Operations										B		
7.137. Law Enforcement Operations												
7.138. Search and Rescue	*									A		
7.139. Lifeguard, Med Evac, Air Evac Operations	*									B	2b	1b
8. NON-RADAR PROCEDURES FAAO 7110.65												
8.1. Initial Separation of Successive Departing Aircraft										B		1b
8.2. Initial Separation of Departing and Arriving Aircraft										B		1b
8.3. Longitudinal Separation										B		1b
8.4. Lateral Separation										B		1b
8.5. Vertical Separation										B		1b
8.6. Altitude Assignment Procedures										B		1b
8.7. Altitude Confirmation Procedures										B		1b
8.8. Route Assignment Procedures										B		1b
8.9. Protected Airspace Procedures										B		1b
8.10. Radar Approaches in a Non-radar Environment										B		1b
8.11. Timed Approaches										A		

| Tasks, Knowledge and References | Core Tasks | Certification For OJT | | | | | | | | Technical School Proficiency Codes | | |
| | | Tower | | | | Radar | | | | 3 Level | | |
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
8.12. Position Reporting Procedures										B		1b
8.13. Holding Instructions										B		1b
9. PRECISION APPROACH RADAR PROCEDURES FAAO 7110.65												
9.1. Communications Check										B		2b
9.2. Alternate Communications										B		
9.3. Transmission Acknowledgement										B		2b
9.4. Distance From Touchdown										B		2b
9.5. Glidepath Notification										B		2b
9.6. Descent Notification										B		2b
9.7. Course Guidance										B		2b
9.8. Glidepath Information										B		2b
9.9. Trend Information										B		2b
9.10. Elevation Failure Procedures										B		2b
9.11. Decision Height										B		2b
9.12. Position Advisories										B		2b
9.13. Distance From Touchdown										B		2b
9.14. PAR For Approach Monitoring										B		
10. SURVEILLANCE APPROACH PROCEDURES FAAO 7110.65												
10.1. Communications Check										B		
10.2. Altitude Information										B		
10.3. Descent Notification/Instructions										B		
10.4. Final Approach Guidance										B		

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
10.5. Approach Guidance Termination										B		
11. CREW RESOURCE MANAGEMENT AFI 11-290; AT-M-06												
11.1. CRM Terminology	*									B		
11.2. Situational Awareness	*									B		
11.3. Group Dynamics	*									B		
11.4. Communications	*									B		
11.5. Risk Management	*									B		
11.6. Decision Making	*									B		
11.7. Workload Management	*									B		
11.8. Stress Management/Awareness	*									B		
11.9. Application of CRM Principles	*									B		
12. ATC COMBAT READINESS AFI 13-203, AFI 10-201, AFI 10-403; AFMAN 13-220												
12.1. ATC Combat Readiness Requirements	*									A		
12.2. Basic terminology & fundamental concepts	*									A		
12.3. Minimum ATC mobility requirements	*									A		
12.4. Types of ATC deployments & exercises	*									A		
12.5. ATC deployment equipment	*									A		
12.6. Air Base Defense Procedures												
12.7. SCATANA Procedures										A		
13. COORDINATOR (CA/CI/CT) FAAO 7110.65, AFI 13-203												
13.1. Team Position Responsibilities												

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
13.2. Supervisor Notification Requirements												
13.2. Arrivals												
13.2.1. Coordinate Arrival vs. Departure/Overflight/SFO												
13.2.2. Coordinate With Receiving Facility												
13.2.3. Coordinate Use of Airspace												
13.2.4. Coordinate Traffic for Separation												
13.2.5. Coordinate Single Frequency Approaches												
13.2.6. Coordinate Practice Approaches												
13.2.7. Coordinate Delay Sequencing and Delays												
13.2.8. Use Tower/Radar Coordination System												
13.2.9. Define Minimum Distance Without Final Clearance												
13.2.10. Coordinate Opposite Direction Traffic												
13.2.11. Ensure Protection of 360 Overhead												
13.3. Departures												
13.3.1. Coordinate Departures vs Arrivals												
13.3.2. Coordinate Departure Restrictions, Clearance Void Times, Hold for Release, and Release Times												
13.3.3. Coordinate VFR Release of IFR Departure												
13.3.4. Forward Departure Delay Information												
13.3.5. Forward Departure Times												
13.3.6. Coordinate Traffic for Separation												
13.4. Surface Areas												
13.4.1. Coordinate Transitions												

Tasks, Knowledge and References	Core Tasks	Certification For OJT								Technical School Proficiency Codes		
		Tower				Radar				3 Level		
		Tng Start	Tng Comp	Trainee Initials	Trainer Initials	Tng Start	Tng Comp	Trainee Initials	Trainer Initials	A	T	R
13.4.2. Coordinate Use of Airspace												
13.5. Transfer Procedures												
13.5.1. Transfer Radar Identification												
13.5.2. Transfer Control												
13.5.3. Transfer Jurisdiction												
13.5.4. Define SOP for Transfer of Responsibility												
13.6. Monitor/Ensure Separation From Adjacent Airspace												
13.7. Monitor/Ensure Edge of Scope Separation												
13.8. Coordinate Traffic Flow Between Positions/Facilities												
13.9. Coordinate/Assign Frequencies												
13.10. Coordinate Special Flight Operations												
13.10.1. Flight Check and SAFI Aircraft												
13.10.2. Fuel Dumping												
13.10.3. Parachute Jumping												
13.10.4. Hi-Jack Procedures												
13.11. Coordinate Basic Radar Service to VFR Aircraft												
13.12. Monitor/Ensure/Coordinate Correct Application of Radar Procedures												
13.13. Monitor/Ensure/Coordinate Correct Application of Non-Radar Procedures												
13.14. Coordinate Emergency Procedures												
13.15. Direct Designated Positions for Operations												
13.16. Utilize Tower Radar Displays												
13.17. Describe Traffic Management Procedures												

Section B---Course Objective List

This section contains a list of behavioral statements, which describe knowledge and job performance requirements graduates should demonstrate on the job as a result of training received in Course E3AQR1C131 000, E3ABR1C131T 000 or E3ABR1C131R 000 as described in AFCAT 36-2223.

4. **Measurement.** Each objective is indicated as follows:

4.1. "W" indicates task or subject knowledge that is measured using a written test.

4.2. "P" indicates required task performance that is measured with a performance test.

4.3. "W/P" indicates separate measurement of both knowledge and performance elements using a written test and a performance progress check.

5. **Standard.**

5.1. The standard is 70% on written examinations. The standard for performance progress checks is 70% using a weighted grading system; i.e. a vectoring error is worth 5 points; a separation error is worth 10 points. The standards and instructor assistance provided during the test are indicated in the objectives and further defined on individual performance progress checklists.

5.2. Each task and behavioral statement is identified as RAPCON or Tower, and further divided into operating positions. Each position identifies a specific condition which behavioral statement must be performed. The details of the statement and verb selection reflect the level of training. After the required knowledge level is obtained, performance behavioral statements are performed to meet course requirements for accuracy, timeliness and correct use of procedures and phraseology. Behavioral statements for knowledge only tasks are listed for specific facilities.

6. **Proficiency Level.**

6.1. **Proficiency Format Coding System.**

6.1.1. Task Performance Levels are 1, 2, 3 and 4. Task Performance Levels identify the individual has performed the task as defined in the school standards; however, the individual may not be capable of meeting field requirements for speed and accuracy.

6.1.2. Task Knowledge Levels are a, b, c and d. Task Knowledge Levels identify the individual's ability to relate simple facts, procedures, operating principles and operational theory for the task.

6.1.3. Subject Knowledge Levels are A, B, C, and D. Subject Knowledge Levels recognizes the individual's ability to identify basic facts, state principles, analyze or evaluate the subject.

6.2. RAPCON operating positions include Clearance Delivery, Approach/Departure Control, Assistant Approach/Departure Control, Arrival Control, Non-Radar Approach/Departure Control, Assistant Non-Radar Approach/Departure Control and RFC. Control Tower operating positions include Local Control, Ground Control and Flight Data.

7. **Initial Skills Course/Course Objectives List** – These objectives listed are referenced in the STS. The Block of Instruction is added at the end of each objective. The Air Traffic Control Fundamentals (F) Course is divided into three Blocks of Instruction; Block I, Air Traffic Control Fundamentals, Block II, Control Tower Procedures, and Block III, Instrument Flight Rules (IFR) Procedures. The 1C131T Air Traffic Control Tower (T) Apprentice Course is divided into four Blocks of Instruction; Block I, Introduction to Control Operations, Block II Basic Control Tower Operations, Block III, Intermediate Control Tower Operations and Block IV, Advanced Control

Tower Operations. The 1C131R Air Traffic Control Radar (R) Apprentice Course is divided into three Blocks of Instruction; Block I, Introduction to Radar Approach Control (RAPCON) Operations, Block II, Advanced Radar Approach Control (RAPCON) Operations and Block III, Approach Control Operations (Non-RADAR). "Meas" is used to denote the type of measurement used.

7.1. Introduction/Overview of The National Air Traffic Control System

Describe the responsibilities and functions of the FAA, Air Force and other military services in the ATC system. STS: None Meas: W Block 1(F)

7.2. Security

Define Operations Security. STS: 1.1. Meas: W Block 1(F)

Describe Operations Security (OPSEC) vulnerabilities associated with air traffic control. STS: 1.2. Meas: W Block 1(F)

7.3. Air Traffic Control Publications

Describe the general contents of regulatory publications maintained in USAF ATC facilities. STS: 2.1. Meas: W Block 1(F)

Describe basic aeronautical data in flight information publications (FLIPS). STS: 2.2. Meas: W Block 1 (F)

7.4. Operational Areas

Describe Class A Airspace. STS: 3.1. Meas: W Block 1 (F)
Describe Class B Airspace. STS: 3.2. Meas: W Block 1 (F)
Describe Class C Airspace. STS: 3.3. Meas: W Block 1 (F)
Describe Class D Airspace. STS: 3.4. Meas: W Block 1 (F)
Describe Class E Airspace. STS: 3.5. Meas: W Block 1 (F)
Describe Class G Airspace. STS: 3.6. Meas: W Block 1 (F)
Describe National Airspace System. STS: 3.7. Meas: W Block 1 (F)
Describe Air Defense Identification Zone. STS: 3.8.
Describe Flight Information Region. STS: 3.9.
Describe Airports Affecting Operations. STS: 3.10. Meas: W Block 1,3 (F)
Describe Adjacent Airspace. STS: 3.11. Meas: W Block 1,3 (F)
Describe ATC Facilities. STS: 3.12. Meas: W Block 1 (F)
Describe Taxiways. STS: 3.13. Meas: W Block 1 (F)
Describe Runways/Helipads. STS: 3.14. Meas: W Block 1 (F)
Describe Ramps and Parking Areas. STS: 3.15. Meas: W Block 1 (F)
Describe Field Elevation. STS: 3.16. Meas: W Block 1 (F)
Describe and Demonstrate Visual and Radio Blind Spots. STS: 3.17. Meas: W/P Block 1 (F)(T)
Describe Aircraft Arresting Systems. STS: 3.18. Meas: W Block 1 (F)
Describe and Demonstrate Airport Lighting. STS: 3.19. Meas: W/P Block 1 (F)
Describe Ground NAVAID Checkpoints. STS: 3.20.
Describe and Demonstrate Traffic Patterns. STS: 3.30. Meas: W/P Block 3 (F)
Describe Bailout. STS: 3.31. Meas: W Block 2 (F)
Describe External Stores Jettison. STS: 3.32. Meas: W Block 2 (F)
Describe Fuel Dump. STS: 3.33. Meas: W Block 2 (F)
Describe Hot Brakes. STS: 3.34. Meas: W Block 2 (F)
Describe Arm/Dearm. STS: 3.35. Meas: W Block 2 (F)
Describe Dangerous Cargo. STS: 3.36. Meas: W Block 2 (F)
Describe Alert Pads. STS: 3.37. Meas: W Block 2 (F)
Describe Drop Zones. STS: 3.38. Meas: W Block 2 (F)

Describe Hydrazine Areas. STS: 3.39. Meas: W Block 2 (F)
Describe Parachute Jumping. STS: 3.40. Meas: W Block 2 (F)
Describe Precision Approach Critical Areas. STS: 3.41. Meas: W Block 2 (F)
Describe Restricted Airspace. STS: 3.21. Meas: W Block 1,3 (F)
Describe Warning Areas. STS: 3.22. Meas: W Block 1,3 (F)
Describe Alert Areas. STS: 3.23. Meas: W Block 1,3 (F)
Describe Prohibited Areas. STS: 3.24. Meas: W Block 1,3 (F)
Describe Controlled Firing Area. STS: 3.25. Meas: W Block 1,3 (F)
Describe and Demonstrate Military Operations Area. STS: 3.26. Meas: W/P Block 1 (F)(R)
Describe Special Use/ATC Assigned Airspace. STS: 3.27. Meas: W Block 1,3 (F)
Describe Military Training Routes. STS: 3.28. Meas: W Block 1 (F)
Describe Temporary Flight Restrictions. STS: 3.29. Meas: W Block 1 (F)

7.5. Air Navigational Aids

Describe VOR. STS: 4.1. Meas: W Block 1(F)
Describe TACAN. STS: 4.2. Meas: W Block 1(F)
Describe VORTAC. STS: 4.3. Meas: W Block 1(F)
Describe NDB. STS: 4.4. Meas: W Block 1(F)
Describe ILS. STS: 4.5. Meas: W Block 1(F)
Describe GPS. STS: 4.6. Meas: W Block 1(F)
Describe MLS. STS: 4.7. Meas: W Block 1(F)
Describe NAVAID Use Limitations. STS: 4.8. Meas: W Block 1(F)
Describe NAVAID Malfunction Procedures. STS: 4.9. Meas: W Block 1(F)
Describe Area Navigation. STS: 4.10.
Describe Jet Routes and Airways. STS: 4.11. Meas: W Block 1(F)
Describe Minimum Vectoring Altitude/ IFR Chart. STS: 4.12. Meas: W Block 1,3(F)
Describe Minimum Enroute Altitude. STS: 4.13. Meas: W Block 1,3(F)
Describe Minimum Obstruction Clearance Altitude. STS: 4.14. Meas: W Block 1,3(F)
Describe Minimum Reception Altitude. STS: 4.15. Meas: W Block 1,3(F)
Describe Minimum Crossing Altitude. STS: 4.16. Meas: W Block 1,3(F)
Describe Reporting Points. STS: 4.17. Meas: W Block 1,3(F)
Describe Coordination Fixes. STS: 4.18. Meas: W Block 1,3(F)

7.6. Equipment Operation

Describe and Demonstrate Surveillance Radar System. STS: 5.1. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Primary Radar Capabilities. STS: 5.2. Meas: W/P Block 3(F)(R)
Describe Alignment of Primary Radar. STS: 5.3. Meas: W Block 3(F)
Describe Electronic Cursor Procedures. STS: 5.4. Meas: W Block 3(F)
Describe and Demonstrate Secondary Radar Capabilities. STS: 5.5. Meas: W/P Block 3(F)
Describe Alignment of Secondary Radar. STS: 5.6. Meas: W Block 3(F)
Describe Beacon Range Accuracy. STS: 5.7. Meas: W Block 3(F)
Describe Master Control Panel. STS: 5.8.
Describe Beacon Target Displacement Procedures. STS: 5.9. Meas: W Block 3(F)
Describe and Demonstrate PIDP. STS: 5.10. Meas: W/P Block 3(F) (R)
Describe Precision Approach Radar Capabilities. STS: 5.11. Meas: W Block 3(F)
Describe PAR Alignment. STS: 5.12.
Describe PAR Turnaround Procedures. STS: 5.13.
Describe Video Mapper. STS: 5.14. Meas: W Block 3(F)
Describe Flight Data System. STS: 5.15. Meas: W Block 2(T)
Describe and Demonstrate Tower/Radar Coordination System. STS: 5.16. Meas: W/P Block 1,2,3(F)(R)(T)
Describe Remote Status Indicators. STS: 5.17. Meas: W Block 1(T)
Describe and Demonstrate Automatic Terminal Information Service. STS: 5.18. Meas: W/P Block 1(F)(T)
Describe Weather Dissemination System. STS: 5.19. Meas: W Block 1(F)(T)

Describe and Demonstrate Weather Equipment. STS: 5.20.
Describe Wind Indicators. STS: 5.21. Meas: W Block 1,2,3(F)(R)(T)
Describe and Demonstrate Light Guns. STS: 5.22. Meas: W/P Block 1,2(F) (T)
Describe Radio/Landlines. STS: 5.23. Meas: W Block 1,2,3(F)(R)(T)
Describe Clocks. STS: 5.24. Meas: W Block 1,2,3(F)(R)(T)
Describe and Demonstrate Intercoms. STS: 5.25.
Describe and Demonstrate Primary Crash Phone. STS: 5.26. Meas: W/P Block 1,2(F)(T)
Describe and Demonstrate Tower Radar Displays. STS: 5.27. Meas: W/P Block 2,(F)(T)
Describe Recorders. STS: 5.28. Meas: W Block 2,(F)(T)
Demonstrate Air Traffic Control Simulator. STS: 5.29. Meas: P Block 3 1,2,3(R)
Describe FM Nets. STS: 5.30. Meas: W Block 2,(F)(T)
Describe Auxiliary Power Source. STS: 5.31. Meas: W Block 1(F)
Describe Evacuation Alarms. STS: 5.32. Meas: W Block 1(F)
Describe Report Equipment Outages. STS: 5.33. Meas: W Block 1(F)

7.7 Weather

Describe Cooperative Weather Watch. STS: 6.1. Meas: W Block 1(F)
Describe the Effect of Weather on Aircraft. STS: 6.2. Meas: W Block 1(F)
Describe and Disseminate Weather Information. STS: 6.3. Meas: W/P Block 1(F)(T)(R)
Describe and Demonstrate Using Visibility Checkpoint Charts. STS: 6.4. Meas: W/P Block 2(F)(T)
Describe and Demonstrate Sector Visibility. STS: 6.5. Meas: W/P Block 2(F)(T)
Describe and Demonstrate Prevailing Visibility. STS: 6.6. Meas: W/P Block 2(F)(T)
Describe and Demonstrate Pilot Reports. STS: 6.7. Meas: W/P Block 1 (F)(T)
Describe Low Level Wind Shear Advisory. STS: 6.8. Meas: W Block 1 (F)(T)
Describe and Demonstrate Braking Action Advisory. STS: 6.9. Meas: W/P Block 1(F) (T)
Describe and Demonstrate Runway Visual Range. STS: 6.10. Meas: W/P Block 1 (F)(T)
Describe and Demonstrate Runway Visual Values. STS: 6.11. Meas: W/P Block 1(F) (T)
Describe Hazardous In-Flight Weather Advisory Service. STS: 6.12. Meas: W Block 1(F) (T)
Describe Weather and Chaff Advisory. STS: 6.13. Meas: W Block 1,3 (F)

7.8. General Operating Procedures

NOTE: The knowledge foundation that is needed and inherent in the STS tasks that are coded as Task Performance Levels will be taught in the appropriate performance area/block of instruction.

Describe Control Tower Operator Certification Procedures. STS: 7.1. Meas: W Block 1(F)
Describe General Flight Rules. STS: 7.2. Meas: W Block 1(F)
Describe Visual Flight Rules. STS: 7.3. Meas: W Block 1(F)
Describe Instrument Flight Rules. STS: 7.4. Meas: W Block 1(F)
Describe Radio and Frequency Channelization. STS: 7.5. Meas: W Block 1(F)
Describe and Demonstrate ATC Communication Procedures (radios/landlines). STS: 7.6. Meas: W/P Block 1,2,3(F)(T)(R)
Describe and Demonstrate Inter/Intra Facility Coordination. STS: 7.7. Meas: W/P Block 1,2,3(F)(T)(R)
Describe Aircraft Priorities. STS: 7.8. Meas: W Block 1(F)
Describe Aircraft Characteristics. STS: 7.9. Meas: W Block 1(F)
Describe and Demonstrate Facility Evacuation Procedures. STS: 7.10.
Describe and Demonstrate Alternate Facility. STS: 7.11.
Describe Facility Checklists. STS: 7.12. Meas: W Block 1(F)
Describe and Demonstrate Runway Observation Monitor. STS: 7.13. 1(F)
Describe Facility Forms. STS: 7.14. Meas: W Block 1(F)
Describe and Demonstrate Flight Progress Strips. STS: 7.15. Meas: W/P Block 1,2,3(F)(T)(R)
Describe and Demonstrate Transponder Procedures/ Operations. STS: 7.16. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Beacon Codes. STS: 7.17. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Transfer Control of Aircraft. STS: 7.18. Meas: W/P Block 2,3(F)(T)(R)

Describe and Demonstrate Coordinate Use of Airspace. STS: 7.19. Meas: W/P Block 2,3(F)(T)(R)

Describe and Demonstrate Closed/Unsafe Runway Information. STS: 7.20. Meas: W/P Block 1,2(F)(T)

Describe and Demonstrate Airport, Obstruction, Field Condition Information. STS: 7.21. Meas: W/P Block 2(F)(T)

Describe NOTAMs. STS: 7.22. Meas: W Block 1(F)

Describe In-Flight Equipment Malfunctions. STS: 7.23. Meas: W Block 1(F)

Describe and Demonstrate Locate/Plot Sites Using Crash Grid Maps. STS: 7.24. Meas: W/P Block 1,2(F)(T)

Describe and Demonstrate NORDO Aircraft Procedures. STS: 7.25. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Communications Failure Procedures. STS: 7.26. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Receiver Only Acknowledgement Procedures. STS: 7.27. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Emergency Aircraft Operations. STS: 7.28. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Expeditious Compliance. STS. 7.29. Meas: W/P Block 1,2,3(F)(T)(R)

Describe Emergency Locator Transmitter (ELT) Signals. STS: 7.30. Meas: W Block 1(F)

Describe and Demonstrate Emergency Fuel Operations. STS: 7.31. Meas: W/P Block 1(F)(T)

Describe and Demonstrate Minimum Fuel Operations. STS: 7.32. Meas: W/P Block 1(F)(T)

Describe and Demonstrate Observed Abnormalities. STS: 7.33. Meas: W/P Block 1,2(F)(T)

Describe and Demonstrate Provide Assistance to VFR Aircraft in Weather Difficulty. STS: 7.34. Meas: W/P Block 3(F)(T)(R)

Describe Overdue Aircraft Procedures. STS: 7.35. Meas: W Block 1(F)

Describe Anti-Hijack Procedures. STS: 7.36. Meas: W Block 1,3(F)

Describe TCAS Resolution Advisories. STS: 7.37. Meas: W Block 1(F)

Describe Facility Bomb Threats. STS: 7.38. Meas: W Block 1(F)

Describe Aircraft Bomb Threats. STS: 7.39. Meas: W Block 1(F)

Describe Climb to VFR Instructions. STS: 7.40. Meas: W Block 1(F)

Describe and Demonstrate Special VFR Procedures. STS: 7.41. Meas: W/P Block 1,2,3,(F)(T)(R)

Describe and Demonstrate Maintain Surveillance of Surface Area. STS: 7.42. Meas: W/P Block 2,(T)

Describe and Demonstrate Maintain Surveillance of Movement Area. STS: 7.43. Meas: W/P Block 2,(T)

Describe and Demonstrate Respond to Operational Requests. STS: 7.44. Meas: W/P Block 1(F)(T)(R)

Describe and Demonstrate Provide Additional Services. STS: 7.45. Meas: W/P Block 3(F)(T)(R)

Describe and Demonstrate Bird Advisory Information. STS: 7.46. Meas: W/P Block 2, 3(F)(T)(R)

Describe and Demonstrate Protect Overhead Traffic Pattern. STS: 7.47. Meas: W/P Block 2(F)(T)(R)

Describe and Demonstrate Traffic Advisories. STS: 7.48. Meas: W/P Block 2, 3(F)(T)(R)

Describe and Demonstrate Safety Alerts. STS: 7.49. Meas: W/P Block 1, 2, 3(F)(R)

Describe and Demonstrate Divert Advisories. STS: 7.50.

Describe and Demonstrate Requests for Information from Non-ATC Agencies. STS: 7.51.

Describe and Demonstrate Aircraft Conducting Unusual Maneuvers. STS: 7.52.

Describe Single Frequency Approaches. STS: 7.53. Meas: W Block 3 (F)

Describe and Demonstrate Minimum Distance Without Final Clearance. STS: 7.54. Meas: W/P Block 2, 3(F)(R)

Describe VFR-on-Top Aircraft. STS: 7.55. Meas: W Block 1(F)

Describe and Demonstrate Missed Approach Instructions. STS: 7.56. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Control Vehicles, Equipment, Personnel. STS: 7.57. Meas: W/P Block 2(F)(T)

Describe and Demonstrate Wheels Check. STS: 7.58. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Determine Aircraft Position on Airfield. STS: 7.59. Meas: W/P Block 1(F)(T)

Describe and Demonstrate Use of Active Runways. STS: 7.60. Meas: W/P Block 1(F)(T)

Describe Runway Selection Procedures. STS: 7.61. Meas: W Block 1(F)

Describe and Demonstrate Issue Landing Clearance. STS: 7.62. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Cancel Landing Clearance. STS: 7.63. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Landing Information. STS: 7.64. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Landing Clearance Without Visual Observation. STS: 7.65. Meas: W/P Block 1,2(F)(T)

Describe and Demonstrate Altitude Restricted Low Approaches. STS: 7.66. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Altimeter Setting. STS: 7.67. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Transfer Position Responsibility. STS: 7.68. Meas: W/P Block 1(F)(T)(R)

Describe Pre-Duty Familiarization. STS: 7.69. Meas: W Block 1(F)

Describe and Demonstrate Visual Separation. STS: 7.70. Meas: W/P Block 2,3(F)(T)(R)

Describe and Demonstrate Coordinate Aircraft Movement. STS: 7.71. Meas: W/P Block 2,3(F)(T)(R)

Describe and Demonstrate Wake Turbulence Separation. STS: 7.72. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Wake Turbulence Cautionary Advisory. STS: 7.73. Meas: W/P Block 2,3(F)(T)(R)

Describe Intersecting Runway Separation. STS: 7.74. Meas: W Block 1(F)

Describe and Demonstrate Runway Exiting Instruction. STS: 7.75. Meas: W/P Block 2,3(F)(T)(R)

Describe and Demonstrate Sequence Arrivals/Departures. STS: 7.76. Meas: W/P Block 2,3(F)(T)(R)

Describe and Demonstrate Separate Arrivals/Departures. STS: 7.77. Meas: W/P Block 2,3(F)(T)(R)

Describe and Demonstrate Simulated Flameout Arrivals. STS: 7.78. Meas: W/P Block 2,3(F)(T)(R)

Describe and Demonstrate Formation Flights. STS: 7.79. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Helicopter Operations. STS: 7.80. Meas: W/P Block 2(F)(T)

Describe VFR Transitions. STS: 7.81. Meas: W Block 1(F)

Describe and Demonstrate Departure Procedures/ Standard Terminal Arrival Routes. STS: 7.82. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Taxi Into Position and Hold. STS: 7.83. Meas: W/P Block 2(F)(T)

Describe and Demonstrate Go-Around Instructions. STS: 7.84. Meas: W/P Block 2(F)(T)

Describe and Demonstrate Simultaneous Same Direction Operations. STS: 7.85. Meas: W/P Block 2(F)(T)

Describe Simultaneous Opposite Direction Operations. STS: 7.86. Meas: W Block 2(F)

Describe and Demonstrate Departure Information. STS: 7.87. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Departure Control Instructions. STS: 7.88. Meas: W/P Block 1,2,3(F)(T)(R)

Describe Reduced Same Runway Separation. STS: 7.89. Meas: W Block 1(F)

Describe and Demonstrate Taxi Operations. STS: 7.90. Meas: W/P Block 2(F)(T)

Describe and Demonstrate IFR Clearance Data. STS: 7.91. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Departure Clearances. STS: 7.92. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Amendment to Clearances. STS: 7.93. Meas: W/P Block 1,2,3(F)(T)(R)

Describe and Demonstrate Departure Restrictions, Clearance Void Times, Hold for Release Times, Release Times. STS: 7.94. Meas: W/P Block 2,3(F)(T)(R)

Describe VFR Release of IFR Aircraft. STS: 7.95. Meas: W Block 1(F)

Describe and Demonstrate Visual Approaches. STS: 7.96. Meas: W/P Block 2,3(F)(T)(R)

Describe Circling Approaches. STS: 7.97. Meas: W Block 1,3(F)

Describe and Demonstrate Final Approach Abnormalities. STS: 7.98. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Basic Radar Service to VFR Aircraft. STS: 7.99. Meas: W/P Block 3(F)(R)

Describe and Demonstrate ECM/ECCM Procedures. STS: 7.100.

Describe and Demonstrate Radar Identification Procedures. STS: 7.101. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Handoff Procedures. STS: 7.102. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Point-Out Procedures. STS: 7.103. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Confirm Aircraft Identification. STS: 7.104. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Terminate Radar Service. STS: 7.105. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Vector Aircraft. STS: 7.106. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Separate Nonparticipating Aircraft From Special Use and ATC Assigned Airspace. STS: 7.107. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Obstruction Separation. STS: 7.108. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Adjacent Airspace Separation. STS: 7.109. Meas: W/P Block 3(F)(R)

Describe Edge of Scope Separation. STS: 7.110. Meas: W Block 3(F)(R)

Describe and Demonstrate Altitude Verification Procedures. STS: 7.111. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Holding Instructions. STS: 7.112. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Holding Pattern Surveillance. STS: 7.113. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Approach/Arrival Information. STS: 7.114. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Approach/Arrival Clearance. STS 7.115. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Arrival Instructions. STS: 7.116. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Instrument Approaches. STS: 7.117. Meas: W/P Block 3(F)(R)

Describe VFR Practice Approaches. STS: 7.118. Meas: W Block 3(F)

Describe and Demonstrate Radar Approaches. STS: 7.119. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Radar Departures. STS: 7.120. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Successive/Simultaneous Departures. STS: 7.121. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Control Departure/Arrival on Parallel, Non-Intersecting, Diverging Runways. STS: 7.122. Meas: W/P Block 2(F)(T)
Describe and Demonstrate No-Gyro Procedures. STS: 7.123. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Position Advisories. STS: 7.124. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Successive Approach Procedures. STS: 7.125. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Validate Mode C Readouts. STS: 7.126. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Altitude Reservations. STS: 7.127.
Describe and Demonstrate Final Approach Course Intercept. STS: 7.128. 3(F)(R)
Describe and Demonstrate Merging Target Procedures. STS: 7.129. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Speed Adjustments. STS: 7.130. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Airborne Radar Approaches. STS: 7.131. 3(F)(R)
Describe Lowest Usable Flight Levels. STS: 7.132. Meas: W Block 1,3(F)
Describe Flight Inspection. STS: 7.133. Meas: W Block 1,3(F)
Describe and Demonstrate Aircraft Carrying Dangerous Materials. STS: 7.134. Meas: W/P Block 3(F)(R)
Describe and Demonstrate MITO Operations. STS: 7.135.
Describe MARSA Operations. STS: 7.136. Meas: W Block 3(F)
Describe and Demonstrate Law Enforcement Operations. STS: 7.137.
Describe Search and Rescue. STS: 7.138. Meas: W Block 1(F)
Describe and Demonstrate Lifeguard, Med Evac, Air Evac Operations. STS: 7.139. Meas: W/P Block 1,2(F)(T)(R)

7.9. NON-RADAR Procedures

Describe and Demonstrate Initial Separation of Successive Departing Aircraft. STS: 8.1. Meas: W/- Block 3(F)(R)
Describe and Demonstrate Initial Separation of Departing and Arriving Aircraft. STS: 8.2. Meas: W/- Block 3(F)(R)
Describe and Demonstrate Longitudinal Separation. STS: 8.3. Meas: W/- Block 3(F)(R)
Describe and Demonstrate Lateral Separation. STS: 8.4. Meas: W/- Block 3(F)(R)
Describe and Demonstrate Vertical Separation. STS: 8.5. Meas: W/- Block 3(F)(R)
Describe and Demonstrate Altitude Assignment Procedures. STS: 8.6. Meas: W/- Block 3(F)(R)
Describe and Demonstrate Altitude Confirmation Procedures. STS: 8.7. Meas: W/- Block 3(F)(R)
Describe and Demonstrate Route Assignment Procedures. STS: 8.8. Meas: W/- Block 3(F)(R)
Describe and Demonstrate Protected Airspace Procedures. STS: 8.9. Meas: W/- Block 3(F)(R)
Describe and Demonstrate Radar Approaches in a Non-radar Environment. STS: 8.10. Meas: W/- Block 3(F)(R)
Describe Timed Approaches. STS: 8.11. Meas: W Block 3(F)
Describe and Demonstrate Position Reporting Procedures. STS: 8.12. Meas: W/- Block 3(F)(R)
Describe and Demonstrate Holding Instructions. STS: 8.13. Meas: W/- Block 3(F)(R)

7.10. PRECISION APPROACH RADAR PROCEDURES

Describe and Demonstrate Communications Check. STS: 9.1. Meas: W/P Block 3(F)(R)
Describe Alternate Communications. STS: 9.2. Meas: W Block 3(F)
Describe and Demonstrate Transmission Acknowledgement. STS: 9.3. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Distance From Touchdown. STS: 9.4. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Glidepath Notification. STS: 9.5. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Descent Notification. STS: 9.6. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Course Guidance. STS: 9.7. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Glidepath Information. STS: 9.8. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Trend Information. STS: 9.9. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Elevation Failure Procedures. STS: 9.10. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Decision Height. STS: 9.11. Meas: W/P Block 3(F)(R)
Describe and Demonstrate Position Advisories. STS: 9.12. Meas: W/P Block 3(F)(R)

Describe and Demonstrate Distance From Touchdown. STS: 9.13. Meas: W/P Block 3(F)(R)
Describe PAR For Approach Monitoring. STS: 9.14. Meas: W Block 3(F)

7.11. SURVEILLANCE APPROACH PROCEDURES

Describe Communications Check. STS: 10.1. Meas: W Block 3(F)
Describe Altitude Information. STS: 10.2. Meas: W Block 3(F)
Describe Descent Notification/Instructions. STS: 10.3. Meas: W Block 3(F)
Describe Final Approach Guidance. STS: 10.4. Meas: W Block 3(F)
Describe Approach Guidance Termination. STS: 10.5. Meas: W Block 3(F)

7.12. CREW RESOURCE MANAGEMENT

Describe CRM Terminology. STS: 11.1. Meas: W Block 1(F)
Describe Situational Awareness. STS: 11.2. Meas: W Block 1(F)
Describe Group Dynamics. STS: 11.3. Meas: W Block 1(F)
Describe Communications. STS: 11.4. Meas: W Block 1(F)
Describe Risk Management. STS: 11.5. Meas: W Block 1(F)
Describe Decision Making. STS: 11.6. Meas: W Block 1(F)
Describe Workload Management. STS: 11.7. Meas: W Block 1(F)
Describe Stress Management/Awareness. STS: 11.8. Meas: W Block 1(F)
Describe Application of CRM Principles. STS: 11.9. Meas: W Block 1(F)

7.13. ATC COMBAT READINESS

Describe ATC Combat Readiness Requirements. STS: 12.1. Meas: W Block 1(F)
Describe Basic terminology & fundamental concepts. STS: 12.2. Meas: W Block 1(F)
Describe Minimum ATC mobility requirements. STS: 12.3. Meas: W Block 1(F)
Describe Types of ATC deployments & exercises. STS: 12.4. Meas: W Block 1(F)
Describe ATC deployment equipment. STS: 12.5. Meas: W Block 1(F)
Describe Air Base Defense Procedures. STS: 12.6.
Describe SCATANA Procedures. STS: 12.7. Meas: W Block 1(F)

Section C — OJT Support Materials

Document	Duty Position	Developer
STS	ATC Operator	AFFSA
AT-M-01	Trainer Qualification Training Package	AFFSA
AT-M-04	Chief, Air Traffic Control Training	AFFSA
AT-M-04	Chief, Standardization and Evaluation	AFFSA
AT-M-05	Chief Controller	AFFSA
E6ACS1C171 000	Craftsman (7-skill level)	Contractor
AFJQS-002	Air Traffic Control Management	AFFSA

Course Number	Course Title	Developer
N/A	OJT Trainers Course	360th TSS
N/A	OJT Task Certifier	360th TSS
N/A	Certification Guides	Each Facility

8. **Training Publications.** AFI 36-2222, *Air Traffic Control Training Publications* outlines policies, procedures and responsibilities for training publications as OJT support materials. These support materials provide effective management devices for training and evaluation feedback of the entire training program.

Section D --- Training Course Index

10. Refer to AFCAT 36-2223, *USAF Formal Schools Catalog,* for information on resident courses listed in this index. *NOTE:* AFCAT 36-2223 has been converted to a database. The title of the database is *Air Force Education and Training Course Announcements (ETCA)* located at the following URL: http://hq2af.keesler.af.mil/etca.htm.

11. Resident Courses

Course Number	Course Title	Location
E3AQR1C131 000	ATC Operations Apprentice Course	Keesler AFB
E3ABR1C131T 000	Air Traffic Control Tower Apprentice	Keesler AFB
E3ABR1C131R 000	Air Traffic Control Radar Apprentice	Keesler AFB
E3OZR11A4X 000	Military Airspace Management	Keesler AFB
E3OZR13B4A 000	Automated Terminal Instrument Procedures	Keesler AFB
AFFSA 1C191	ATC Facility Management	Andrews AFB
J3AZR3S200 002	Instructional System Designer	Sheppard AFB
ACC JAC2C 77L	Joint Aerospace Command and Control Course	Hurlburt Field
ACC JACAC 77K	Joint Aerospace Computer Applications Course	Hurlburt Field

12. Extension Course Institute (ECI) Courses

CDCs are not available for this AFSC.

Section E --- MAJCOM Unique Requirements

Air National Guard will provide training slots at their Mobility Training Center for ANG operators/airfield management for combat skills and ATCALS maintenance training.