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AFSC 3D1X2

CYBER TRANSPORT SYSTEMS



**CAREER FIELD EDUCATION
AND TRAINING PLAN**

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**CYBER TRANSPORT SYSTEMS
AFSC 3D1X2
CAREER FIELD EDUCATION AND TRAINING PLAN**

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**CYBER TRANSPORT SYSTEMS
AFSC 3D1X2**

CAREER FIELD EDUCATION AND TRAINING PLAN

PART I

Preface

1. The changing Command, Control, Communications, Computer, and Intelligence (C4I) and Air and Space Expeditionary Forces (AEF) environments require vision, preparation, and attention to ensure people have the right skills and tools to deliver the C4I capabilities and the support required by the war fighter in meeting the Air Force mission of today and the vision of the future. Declining resources, expanding diversity of mission, and ever-changing technologies in the Air Force are impacting the availability of our most valuable resource--people. These factors will continue to exist in the future, making it essential for the work force to be effectively and efficiently trained to perform duties within each skill level of an Air Force Specialty (AFS). To meet the challenges of tomorrow, the Air Force must place a greater emphasis on career field training. This Cyber Transport Systems Career Field Education and Training Plan (CFETP) is a comprehensive core training document that identifies life-cycle training/education requirements, support resources, and minimum core task requirements for the 3D1X2 specialty. The plan is a "training road map" for the career field. It provides personnel a clear career path to success and makes career field training identifiable, measurable, and budget defensible.

2. This CFETP along with the 3DXXX CFETP is a comprehensive education and training document that identifies life cycle education and training requirements, training support resources, and minimum core task requirements for this specialty. The CFETP documents the career field training program and consists of two parts. Management uses both parts in conjunction with the Training Business Area (TBA) to plan, manage, and control training within the career field. NOTE: Civilians occupying associated positions will use Part II to support duty position qualification training.

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

2.2. Part II includes the following: Section A: identifies the Specialty Training Standard (STS) and includes duties, tasks, Training References (TRs) to support training, AETC conducted training, wartime course and core tasks and correspondence course requirements. Section B: contains the Course Objectives List (COL) and training standards supervisors will use to determine if airmen satisfied training requirements. Section C: identifies available support materials. An example is a Qualification Training Package, which may be developed to support proficiency training; Section D identifies a training course index supervisors can use to determine resources available to support training. Included here are both mandatory and optional courses; Section E identifies MAJCOM unique training requirements supervisors can use to determine additional training required for the associated qualification needs. At unit level,

supervisors and trainers will use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

3. Use of the guidance provided in this CFETP provides the foundation for effective and efficient training for individuals in this career field at the appropriate points in their careers. This plan enables the Air Force to train today's work force for tomorrow's jobs.

Abbreviations/Terms Explained

This section provides a common understanding of the terms that apply to the Cyber Transport Systems Career Field and Education Training Plan.

Advanced Training (AT). A formal course of training that leads to a technical or supervisory level of an AFS. Training is for selected airmen at the advanced level of an AFS.

Air and Space Expeditionary Force (AEF). The AEF is the Air Force's methodology for organizing, training, equipping, and sustaining rapidly responsive air and space forces to meet defense strategy requirements. Through the AEF, consisting of enabler and tempo banded capabilities the Air Force supports defense strategy requirements using a combination of both permanently assigned and rotational (allocated) forces.

Air and Space Expeditionary Task Force (AETF). The AETF is the Air Force's primary warfighting organization and the means by which we present forces to a Joint Forces Commander (JFC). When established, AETFs will form up under the designated Air Force component headquarters.

Air Education Training Command (AETC). Responsible for the recruiting, training and education of Air Force personnel. AETC also provides pre-commissioning, professional military and continuing education.

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

Air Force Enlisted Classification Directory (AFECD). The official directory for all military enlisted classification descriptions, codes, and identifiers. Establishes the occupational structure of the Air Force enlisted force. The occupational structure is flexible to permit enlisted personnel to specialize and develop their skills and abilities while allowing the Air Force to meet changing mission requirements. Individual enlisted personnel have a joint responsibility with commanders and supervisors at all levels to fully develop their abilities consistent with Air Force needs and within the established patterns of specialization.

Air Force Job Qualification Standard (AFJQS). A comprehensive task list that describes a particular job type or duty position. Supervisors use the AFJQS to document task qualification. The tasks on AFJQSs are common to all persons serving in the described duty position.

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

Air Force Specialty (AFS). A group of positions, with the same title and code, that requires common qualifications.

Air Force Tactics, Techniques and Procedures (AFTTP). The actions and methods that implement joint doctrine that describe how forces will be employed in joint operations. They are promulgated by the Chairman of the Joint Chief of Staff in coordination with the Combatants Commands, Services and the JCS.

Air University Associate-to-Baccalaureate Cooperative (AU ABC). Allows Airmen to turn a Community College of the Air Force Associates Degree into a Bachelor's Degree from an

accredited university. The ABC program has established a partnership with various civilian higher-education institutions to offer four-year degree opportunities via distance learning. The participating schools will accept all of the credits earned by Airmen who have attained a CCAF degree and apply them to a Bachelor's degree related to their Air Force specialty.

Air University/AFCDA (Air Force Career Development Academy). The result of a reorganization of the Air Force Institute for Advanced Distributed Learning (AFIADL); provides access to the Extension Course Institute.

Career Field Education and Training Plan (CFETP). A CFETP is a comprehensive core training document that identifies: life-cycle education and training requirements; training support resources and minimum core task requirements for a specialty. The CFETP aims to give personnel a clear path and instill a sense of industry in career field training. CFETPs are officially posted at <http://www.e-publishing.af.mil/>.

Certification. A formal indication of an individual's ability to perform a task to required standards.

Certifying Official. A person assigned by the commander to determine an individual's ability to perform a task to required standards.

Chemical, Biological, Radiological, Nuclear, and High-Yield Explosive (CBRNE) Task Qualification Training (TQT). CBRNE TQT ensures personnel maintain proficiency in performing mission-critical tasks in a CBRNE environment. See AFI 10-2501, Air Force Emergency Management (EM) Program Planning and Operations, and AFMAN 10-2602, Nuclear, Biological, Chemical and Conventional (NBCC) Defense Operations and Standards for additional information/requirements.

Chief Enlisted Manager (CEM) Code. CEM codes identify all chief master sergeant positions in the Enlisted Classification Structure. They also identify chief master sergeants who, through extensive experience and training, have demonstrated managerial ability to plan, direct, coordinate, implement, and control a wide range of work activity. Some managerial duties and responsibilities that are common to all chief enlisted managers are: managing and directing personnel resource activities; interpreting and enforcing policy and applicable directives; establishing control procedures to meet work goals and standards; recommending or initiating actions to improve functional operation efficiency; planning and programming work commitments, and schedules; developing plans regarding facilities, supplies, and equipment procurement and maintenance.

Collaboration. Collaboration is the interaction among two or more individuals encompassing a variety of behaviors including: communication, information sharing, coordination, cooperation, problem-solving, and negotiation.

Collaborative Tools. Collaborative tools consist of various web-based technologies including advanced white boarding, groupware, and facilitation. Collaborative capabilities assist significantly with managing information throughout its life cycle and enable Air Force members to perform most office-oriented and operational communication tasks from their desktops.

Command, Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance (C4ISR). Integrated systems of doctrine, procedures, organizational structures, personnel, equipment, facilities, and communications designed to support a commander's

exercise of command and control through all phases of the operational continuum. C4 systems include base visual information support systems.

Communications-Computer Systems (C-CS). The facilities, equipment, communications, procedures, and personnel essential to a commander for planning, directing, and controlling operations of assigned forces pursuant to the missions assigned.

Communications-Electronics (C-E). The specialized field concerned with the use of electronic devices and systems for the acquisition or acceptance, processing, storage, display, analysis, protection, disposition, and transfer of information.

Computer Based Training (CBT). A forum for training in which the student learns via a computer terminal. It is an especially effective training tool that allows the students to practice applications while they learn.

Content Management. A set of processes and technologies supporting the evolutionary life cycle of digital information. This digital information is often referred to as content or, to be precise, digital content. Digital content may take the form of text, such as documents, multimedia like audio or video files, or any other file type that follows a content life cycle that requires management.

Continuation Training. Additional advanced training that exceeds the minimum upgrade training requirements and emphasizes present or future duty assignments.

Core Competency. An integrated bundle of expert knowledge and organizational skills inherent to a particular career field(s) which makes a disproportionate contribution to the success of providing the right skills needed for military operations, anywhere anytime. It cannot be duplicated by any other organization, and is critical for the future.

Core Task. A task AFSCs identify as a minimum qualification requirement for everyone within an AFSC, regardless of duty position. A core task may be specified for a particular skill level or in general across the AFSC. Guidance for using core tasks can be found in the applicable CFETP narrative.

Course Objective List (COL). A publication derived from the initial/advanced skills Course Training Standard (CTS), identifying the tasks and knowledge requirements and respective standards provided to achieve a 3-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations in accordance with AFI 36-2201 *Air Force Training Program*.

Course Training Standard (CTS). A standard developed for all courses not governed by an STS, including specialized training packages and computer-based training courses.

Critical Tasks. Critical Tasks are tasks that require specific training and certification above and beyond other tasks. Tasks may be defined as critical either through AFI, Technical Orders, higher headquarters, or at any level in the unit.

Cross Utilization Training. Training on non-duty AFSC specific tasks.

Cyberspace. A global domain within the information environment consisting of the interdependent network of information technology infrastructures, including the Internet, telecommunications networks, computer systems, and embedded processors and controllers.

Cyberspace Operations. The employment of cyber capabilities where the primary purpose is to achieve objectives in or through cyberspace. Such operations include computer network operations and activities to operate and defend the DoD Information Network (DoDIN).

Data Management. The process of planning, coordinating, sharing, and controlling organizations' data resources (AFPD 33-3, *Information Management*).

Direct Reporting Unit (DRU). Air Force subdivisions directly subordinate to the CSAF. A DRU performs a mission that does not fit into any of the MAJCOMs. A DRU has many of the same administrative and organizational responsibilities as a MAJCOM (Example of a DRU: USAF Academy).

Document Management (DM). The process of managing documents through their life cycle; from inception through creation, review, storage, dissemination, and archival or deletion. Document management can also be a database system to organize stored documents, or a search mechanism to quickly find specific documents (AFPD 33-3).

DoD Directive 8570.01 (Information Assurance Training, Certification, and Workforce Management). Provides guidance and procedures for the training, certification, and management of the DoD workforce conducting Information Assurance (IA) functions in assigned duty positions.

DoD Information Network (DoDIN). The globally interconnected, end-to-end set of information capabilities, associated processes, and personnel for collecting, processing, storing, disseminating and managing information on demand to warfighters, policy makers, and support personnel. The DoDIN includes all owned and leased communications and computing systems and services, software (including applications), data, security services, and other associated services necessary to achieve Information Superiority. The DoDIN supports all Department of Defense, National Security, and related Intelligence community missions and functions (strategic, operational, tactical, and business), in war and in peace. The DoDIN provides capabilities from all operating locations (bases, posts, camps, stations, facilities, mobile platforms, and deployed sites). The DoDIN provides interfaces to coalition, allied, and non-DOD users and systems.

Duty Position Tasks. The tasks assigned to an individual for the position currently held. These include, as a minimum, all core tasks that correspond to the duty position as directed by the AFCFM or MFM, and tasks assigned by the supervisor.

Education and Training Course Announcement (ETCA). Located at <https://etca.randolph.af.mil>, the ETCA contains specific MAJCOM procedures, fund cite instructions, reporting instructions, and listings for those formal courses the MAJCOMs or FOAs conduct or manage. The ETCA contains courses the Air Force and reserve forces conduct or administer and serves as a reference for the Air Force, DoD, other military services, government agencies, and security assistance programs.

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

Enterprise. The entire range of communications/networking within garrison and tactical realms to include voice, video, data, imagery, and sensor.

Enterprise Information Management (EIM). Encompasses a set of strategies for organizational management of all aspects of enterprise data as information assets. The proper models, data architecture, application architecture, and integration vision enables using the “enterprise information asset” for strategic analysis, customer-centricity, performance and productivity analytics, and personalization, eventually providing a means for transitioning from an operational, line-of-business oriented application environment, to an intelligent, learning, and agile organization.

Enterprise Information System (EIS). A portfolio of services that bring about Enterprise Information Management (EIM) capabilities.

Expeditionary Aerospace Force (EAF). The EAF concept is how the Air Force will organize, train, equip, and sustain itself by creating a mindset and cultural state that embraces the unique characteristics of aerospace power – range, speed, flexibility, precision – to meet the national security challenges of the 21st Century.

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

Field Operating Agency (FOA). FOAs are subdivisions of the Air Force directly subordinate to a headquarters US Air Force functional manager. A FOA performs field activities beyond the scope of any of the MAJCOMs. The activities are specialized or associated with an Air Force-wide mission (Example of a FOA is the Air Force Weather Agency).

Field Training. Technical, operator, and other training that either a field training detachment or field training team conducts at operational locations on specific systems and associated direct-support equipment for maintenance and aircrew personnel.

Functional Area Manager (FAM). The individual accountable for the management and oversight of all personnel and equipment within a specific functional area to support operational planning and execution. Responsibilities include, but are not limited to, developing and reviewing policy; developing, managing, and maintaining Unit Type Codes (UTC); developing criteria for and monitoring readiness reporting; force posturing; and analysis. At each level of responsibility (Headquarters Air Force, MAJCOM, Air Component, FOA, DRU, and Unit), the FAM should be the most highly knowledgeable and experienced person within the functional area and have the widest range of visibility over the functional area readiness and capability issues.

Functional Manager (FM). An individual assigned collateral responsibility for training, classification, utilization, and career development of personnel. AFSC Functional Managers exist at MAJCOM, NAF and base level.

Global Combat Support System – Air Force (GCSS-AF). An enterprise infrastructure program established to develop, integrate, and deploy combat support information capabilities. The mission of GCSS-AF is to provide timely, accurate, and trusted Agile Combat Support (ACS) information to Joint and Air Force commanders, their staffs, and ACS personnel at all ranks and echelons with the appropriate level of security needed to execute the Air Force mission throughout the spectrum of military operations. GCSS-AF is the means by which ACS functional systems will be modernized and integrated to improve business processes supported on a single robust network-centric infrastructure. In addition to integrating combat support applications, GCSS-AF also provides core enterprise services such as a common user

presentation through the AF Portal, Enterprise Information Management (Workflow, Records Management, Document Management, Knowledge Management, and Collaboration), and an enterprise data warehouse.

Global Command and Control System (GCCS). An automated information system designed to support deliberate and crisis planning with the use of an integrated set of analytic tools and flexible data transfer capabilities. GCCS will become the single C4I system to support the warfighter from foxhole to command post.

Go/No-Go. The “Go” is the stage at which a trainee has gained enough skill, knowledge, and experience to perform the tasks without supervision; meets the task standard. “No-Go” is the stage at which the trainee has not gained enough skill, knowledge, and experience to perform task without supervision; does not meet task standard.

Individual Training Plan (ITP). Use AF Form 623, On-the-Job Training Record/AF Form 623B, or other approved records system (e.g., Training Business Area (TBA)). The AF Form 623 reflects past and current qualifications and is used to determine training requirements. It is intended to be a complete history of past training and current qualifications. Supervisors will ensure all documentation is accurate and comprehensive.

Information Life Cycle. Typically characterized as creation or collection, processing, dissemination, use, storage, protection, and disposition.

Information Management (IM). The planning, budgeting, manipulating, and controlling of information throughout its life cycle. Joint Publication 3-0 further defines IM as the function of managing an organization’s information resources by the handling of knowledge acquired by one or many different individuals and organizations in a way that optimizes access by all who have a share in that knowledge or a right to that knowledge.

Information Resources Management (IRM). The process of managing information resources to accomplish agency missions and to improve agency performance (e.g., the reduction of information collection burdens on the public).

Information Systems (IS). Set of information resources organized for the collection, storage, processing, maintenance, use, sharing, dissemination, disposition, display, or transmission of information.

Information Technology Fundamentals (ITF). The scope of training in the ITF course includes network theory, network components, software, cryptology, network fault isolation techniques, cyber security, communication and information professionals, operational risk management, legal and ethics, C4I security, enterprise systems, CBRN personal and family countermeasures and cyber operations.

Information Technology Fundamentals Electronic Principles (ITF EP). Training which includes electronic principles subjects of test equipment, basic circuits and components, electromagnetic devices, solid state devices, transistor amplifier circuits, power supplies, wave generation, digital numbering systems, digital logic, and basic communications theory.

Information Technology/National Security Systems (IT/NSS). Any equipment, or interconnected system or subsystem of equipment, that is used in the automatic acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information by the Executive Agency. This includes

equipment used by a DoD Component directly, or used by a contractor under a contract with the DoD Component, which requires the use of such equipment, or requires the use, to a significant extent, of such equipment in the performance of a service or the furnishing of a product. The term "IT" also includes computers, ancillary equipment, software, firmware and similar procedures, services (including support services), and related resources. Notwithstanding the above, the term "IT" does not include any equipment that is acquired by a Federal contractor incidental to a Federal contract. The term "IT" includes National Security Systems (NSS).

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 to become educated on the knowledge, skills, and abilities essential for successful job performance.

Joint Tactical Radio System (JTRS). JTRS will link the power of the DoD Information Network (DoDIN) to the warfighter in applying fire effects and achieving overall battlefield superiority. By developing and implementing an open architecture of cutting-edge radio waveform technology, multiple radio types (e.g., handheld, ground-mobile, airborne, maritime, etc.) are now allowed to communicate with one another. The ultimate goal is to produce a family of interoperable, modular, software-defined radios that operate as nodes in a network to ensure secure wireless communication and networking services for mobile and fixed forces. These goals extend to U.S. allies, joint and coalition partners, and disaster response personnel.

Knowledge. Information from multiple domains that has been synthesized, through inference or deduction, into meaning or understanding that was not previously known. This includes: explicit knowledge, which can be easily articulated, codified, and stored; and tacit knowledge, which is based on personal experience, expertise, and judgment. Tacit knowledge is more challenging to capture and share than explicit knowledge.

Knowledge Management (KM). Handling, directing, governing, or controlling of natural knowledge processes within an organization in order to achieve the goals and objectives of the organization.

Knowledge Operations (KO). Application and adaptation of Knowledge Management (KM) into daily AF operations to enable information/decision superiority. KO leverages the interaction of people, processes, and EIS technologies to capture, store, organize, share, and control tacit and explicit knowledge, ensuring all mission execution processes have access to relevant cross-functional information in a collaborative, timely, and contextual manner.

Knowledge Training. Training used to provide a base of knowledge for task performance. It may also be used in lieu of task performance when the training capability does not exist. Learning gained through knowledge rather than hands-on experience

Major Command (MAJCOM). A MAJCOM represents a major Air Force subdivision having a specific portion of the Air Force mission. Each MAJCOM is directly subordinate to HQ USAF. MAJCOMs are interrelated and complementary, providing offensive, defensive, and support elements.

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

Master Training Plan (MTP). Employs a strategy for ensuring the completion of all work center job requirements by using an MTL, providing milestones for task/CDC completion and prioritizes deployment/UTC tasks, home station training tasks, upgrade tasks, and qualification tasks.

Occupational Analysis Report (OAR). A detailed report showing the results of an occupational survey of tasks performed within a particular AFSC. Surveys are conducted by the Air Force Occupational Measurement Squadron (<http://oa.aetc.af.mil/>).

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

Proficiency Training. 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.

Qualification Training. Hands-on, task performance based training designed to qualify airmen in a specific duty position. This training program occurs both during and after the upgrade training process and is designed to provide skills training required to do the job.

Records Management. The planning, controlling, directing, organizing, training, promoting, and other managerial activities involved in records creation, maintenance and use, and disposition in order to achieve adequate and proper documentation of the policies and transactions of the Federal Government and effective and economical management of agency operations.

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

Specialty Training Package and COMSEC Qualification Training Package. A composite of lesson plans, test material, instructions, policy, doctrine, and procedures necessary to conduct training. These packages are prepared by AETC, validated by CYSS COMSEC policy branch and administered by qualified communications security (COMSEC) maintenance personnel.

Specialty Training Requirements Team (STRT). A meeting chaired by the AFCFM with MAJCOM FMs, AETC Training Managers, Subject Matter Experts (SME) and HQ AETC Occupational Analysis Division (OAD) in attendance. Typically held three months prior to a Utilization and Training Workshop (U&TW) to finalize any CFETP changes or enlisted classification directory descriptions.

Specialty Training Standard (STS). An Air Force publication that describes an Air Force specialty in terms of tasks and knowledge that an airman in that specialty may be expected to perform or to know on the job. Also identifies the training provided to achieve a 3-, 5-, or 7-skill level within an enlisted AFS. It further serves as a contract between AETC and the functional user to show which of the overall training requirements for an Air Force Specialty Code (AFSC) are taught in formal schools and correspondence courses.

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. It is a fixed quantity or quality.

System Training Plan (STP). A living document that explains what training is needed for a system and how to obtain the training.

Task Module (TM). A group of tasks performed together within an AFS that require common knowledge, skills, and abilities. TMs are identified by an identification code and a statement.

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

Training Advisory Group (TAG). Chaired by the AFCFM and attended by the MAJCOM, selected DRU's, and FOA functional managers. The TAG sets training goals and priorities, reviews training programs, and evaluates emerging training technologies. The group meets, as required, to prioritize training product development.

Training Business Area (TBA). A web-based training application that provides Air Force war fighters with global, real-time visibility into qualifications, certifications, and training status of communications professionals. TBA supports base, wing, and work center training management activities by automating business processes and capabilities to eliminate paper-based practices. The system centralizes management of training task data, provides user access to CFETPs/JQSS, and increases security through a single AF Portal log on.

Training Capability. 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, TPTs are more intimately involved in training development and the range of issues examined is greater than in the U&TW forum.

Training Requirements Analysis (TRA). A detailed analysis of tasks for a particular AFSC to be included in the training decision process.

Training Setting. The type of forum in which training is provided (formal resident school, on-the-job, field training, mobile training team, self-study, etc.).

Trusted Thin Client (TTC). A computer or a computer program which depends on another computer (or server) to fulfill its traditional computational roles while utilizing security policy to prevent cross domain contamination.

Unit Type Code (UTC). A five-character alphanumeric code identifying a specific force package of personnel and/or equipment. The UTC is the means for linking logistics and manpower details within a unit type and is used to communicate force data. The UTC represents a wartime capability designed to fill a valid contingency requirement.

Upgrade Training. Training that leads to the award of a higher skill level.

Utilization and Training Pattern. A depiction of the training provided to, and the jobs performed by, personnel throughout their tenure within a career field or AFS. There are two types of patterns: 1) Current pattern, which is based on the training provided to incumbents and the jobs to which they have been and are assigned; and 2) Alternate pattern, which considers proposed changes in manpower, personnel, and training policies.

Utilization and Training Workshop (U&TW). A forum of the AFCFM, MAJCOM Functional Managers, subject matter experts (SME), and AETC training personnel that determines career ladder training requirements.

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

Workflow. A series of steps necessary for the initiation, tracking, and delivery of services or outputs with the capability to cut across existing or future organizational boundaries. Furthermore, web-based workflow products allow electronic coordination, staffing, and task management of documents and files. They are relational to an electronic version of the Staff Summary Sheet (SSS) and other AF/DoD forms used for routing/collection of information. Automation provides the capability to suspense and track correspondence through the workflow process and provides action officers and document originators status on their packages. Provides users the capabilities to comply with structured electronic workflow processes and the flexibility to create/develop ad hoc workflow courses of actions. Future use of standardized EIM tools will enhance usability and eliminate legacy methods.

Section A - General Information

1. Purpose of the CFETP. This CFETP, when used in conjunction with the 3DXXX Cyberspace Support CFETP, provides the information necessary for AFCFMs, MAJCOM Functional Managers (MFM), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. The plan outlines the initial skills, upgrade, qualification, advanced, and proficiency training those individuals in AFSC 3D1X2 should receive in order to develop and progress throughout their careers. Initial skills training is the AFS specific training an individual receives upon entry into the AF or upon retraining into this specialty for award of the 3-skill level. This training is provided by the 338th Training Squadron (TRS) at Keesler AFB, MS. Upgrade training identifies the mandatory courses, task qualification requirements, Career Development Course (CDC) completion, and correspondence courses required for award of the 5-, 7-, or 9-skill level. Qualification training is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills and knowledge required to do the job. Advanced training is formal specialty training used for selected airmen. Proficiency training is additional training, 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 of which are:

1.1. Serves as a management tool to plan, manage, conduct, and evaluate a career field-training program. Also, ensures that established training is provided at the appropriate point in an individual's career.

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

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

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

2. Use of the CFETP. The CFETP is maintained by the 3D1XX Air Force Career Field Manager (AFCFM), SAF/CIO A6CF. MAJCOM FMs and AETC review the plan annually to ensure currency and accuracy and forward recommended changes to the AFCFM. Using the list of courses in Part II, they determine whether duplicate training exists and take steps to eliminate/prevent duplicate efforts. Career field training managers at all levels use the plan to ensure a comprehensive and cohesive training program is available for each individual in the career ladder.

2.1. AETC training personnel develop/revise formal resident and exportable training based upon requirements established by the users and documented in the STS. They also develop procurement and acquisition strategies for obtaining resources needed to provide the identified training.

2.2. MAJCOM FMs ensure their training programs complement the CFETP for mandatory initial skill and upgrade requirements. They also identify the needed AFJQs/AFQTPs to document unique upgrade and continuation training requirements. Requirements are satisfied

through OJT, resident training, contract training, or exportable courseware/courses. MAJCOM-developed training to support this AFSC must be included in this plan.

2.3. 81st TRSS/TSQ Qualification Training Flight (Q-Flight) personnel develop training packages (AFJQSs/AFQTPs) based on requests submitted by the MAJCOMs and according to the priorities assigned by the AFCFM.

2.4. Unit level training managers and supervisors manage and control progression through the career field by ensuring individuals complete the mandatory training requirements for upgrade specified in this plan and supplemented by their MAJCOM. The list of courses in Part II is used as a reference for planning continuation or career enhancement training.

2.5. Submit recommended CFETP corrections to the 81 TRSS Q-Flight Customer Service Desk at 81 TRSS/TSQS, 601 D Street, Keesler AFB MS 39534-2235 or call DSN 597-3343. To contact electronically send email to: qflight.customer.service@us.af.mil.

2.6. Submit recommended CFETP additions/deletions through your MAJCOM Functional Manager.

3. Coordination and Approval of the CFETP. The AFCFM is the approval authority. MAJCOM representatives and AETC training personnel coordinate on the career field training requirements. The AETC training manager initiates an annual review of this document by AETC and MAJCOM functional managers to ensure the CFETP's currency and accuracy by using the list of courses in Part II to eliminate duplicate training.

Section B - Career Field Progression and Information

4. Specialty Description. This information supplements that presented in the AFECD.

4.1. Cyber Transport Systems Apprentice/Journeyman/Craftsman (3D132/3D152/3D172).

4.1.1. Specialty Summary: Deploys, sustains, troubleshoots, and repairs standard voice, data, and video network infrastructure systems, IP detection systems and cryptographic equipment. Performs, coordinates, integrates, and supervises network design, configuration, operation, defense, restoration, and improvements. Analyzes capabilities and performance, identifies problems, and takes corrective action. Fabricates, terminates, and interconnects wiring and associated network infrastructure devices. Related DoD Occupational Subgroups: 115000 and 162200.

4.1.2. Duties and Responsibilities:

4.1.2.1. Provides mission critical voice, data, and video services. Installs, upgrades, replaces, configures, and maintains systems/circuits/IP-based intrusion detection systems that access military, Federal, and commercial networks. Manages infrastructure devices and systems using the latest approved software tools.

4.1.2.2. Deploys and operates expeditionary communications systems. Uses agile logistics support channels to sustain continuous network operations. Removes, repairs, and replaces assemblies and subassemblies to optimally sustain voice, data, and video networks.

4.1.2.3. Establishes priorities, maintains, tests, troubleshoots, and repairs network systems equipment and circuits utilizing tools and test equipment. Isolates malfunctions using diagnostic software, technical data, block diagrams, voltage and waveform measurements, and other tests requiring specialized test equipment.

4.1.2.4. Monitors performance of systems and circuits. Coordinates with coalition forces, DoD agencies, and other service providers to analyze and isolate performance faults and implement corrective actions. Checks equipment for serviceability and performs preventive maintenance. Isolates faults by coordinating with commercial service providers and depots to test system components and assemblies.

4.1.2.5. Maintains and administers network and circuit databases, records, and forms. Interprets sketches and layout drawings for placement of distribution systems. Coordinates request for service orders. Reviews, recommends, and implements changes to communications-computer systems installations records (CSIR), technical data, engineering drawings, and equipment wiring diagrams. Updates and verifies entries on system, facility, maintenance, and inspection records. Initiates, tracks, and maintains shipping, receiving, supply, and equipment documents.

4.1.2.6. Conducts periodic inspections of systems installations and repair activities. Interprets inspection reports and implements corrective actions, documents inspection and maintenance actions.

4.1.2.7. Reviews and maintains operational measurement reports and analyzes network utilization. Ensures equipment and components meet installation practice technical order and accepted commercial installation specifications.

4.1.2.8. Applies communications security programs to include physical, cryptographic, transmission, and emission security. Develops and ensures compliance with safety standards and instructions. Adheres to personnel reliability program requirements for priority level 1 facilities.

4.1.2.9. Manages, supervises, and performs planning and implementation activities. Manages implementation and project installation and ensures architecture, configuration, and integration conformity. Develops, plans, and integrates base communications systems. Serves as advisor at meetings for facility design, military construction programs and minor construction planning. Evaluates base comprehensive plan and civil engineering projects. Monitors status of base civil engineer work requests. Performs mission review with customers. Controls, manages, and monitors project milestones and funding from inception to completion. Determines adequacy and correctness of project packages and amendments. Monitors project status and completion actions. Manages and maintains system installation records, files, and indexes. Evaluates contracts, wartime, support, contingency and exercise plans to determine impact on manpower, equipment, and systems.

4.2. Cyber Systems Superintendent (3D190).

4.2.1. Specialty Summary. Manages system analysis and design, programming, systems operation and maintenance, resource management and security management. Directs activities for installing, maintaining, repairing, overhauling, deploying, and modifying cyberspace systems and equipment platforms to include: voice, data, video client devices, and network infrastructure systems, radio, satellite, intrusion detection, space systems, telemetry, microwave, and cryptographic. In addition, manages and directs network and electronic warfare operations in garrison and at deployed locations by performing duties to develop, sustain, and enhance network and electromagnetic capabilities to defend national interests from attack and to create effects in the cyberspace domain to achieve national objectives. Related DoD Occupational Subgroup: 110100.

4.2.2. Duties and Responsibilities.

4.2.2.1. Plans and organizes maintenance activities. Plans and supervises system installation and evaluates facilities layout and performance standards. Designs and develops organizational structures and determines equipment, training, and supplies required for systems implementation and support. Executes operational plans to ensure positive control of assigned forces. Evaluates operational readiness of communications equipment, network devices, sensors, intrusion detection, and related support equipment.

4.2.2.2. Directs activities responsible for system analysis and design, programming, operations and maintenance, security, systems management, technical support and resource management. Implements and interprets policies, directives and procedures.

4.2.2.3. Directs maintenance activities. Directs personnel employed in siting, deploying, inspecting, adjusting, removing, replacing, and repairing communications systems and related equipment. Prepares and analyzes reports encompassing siting, deploying, maintaining, installing, repairing and removing communications systems and related equipment. Coordinates activities and resolves common problems. Directs overhaul and repair of communications systems and related equipment. Ensures work standards are maintained. Determines extent and economy of repair, including disposition of malfunctioning equipment.

4.2.2.4. Inspects and evaluates maintenance activities for compliance with directives. Evaluates, rates and prepares reports on activity effectiveness. Recommends and implements corrective action for improved methods and procedures. Evaluates effectiveness of equipment usage, systems performance, customer service, supplies, and system scheduling, processing, and maintenance.

4.2.2.5. Supervises maintenance functions. Resolves problems with installing, maintaining, repairing, and overhauling systems and equipment. Checks systems and equipment for proper siting, installation, and serviceability. Establishes local maintenance procedures and policies. Performs research and development of new systems and equipment.

4.2.2.6. Establishes training requirements. Establishes training programs to meet local knowledge and certification requirements.

4.2.2.7. Plans, programs, and develops budget inputs to ensure resource availability for operational requirements.

4.2.2.8. Manages plans, implementation, and development functions. Helps functional users define requirements. Supervises functional user requirements translation into automated systems capabilities. Organizes teams that use methodologies to meet mission requirements. Supervises test and evaluation efforts to determine performance. Organizes and participates in mission implementation and conversion. Ensures continued interface between functional users and programming and operations personnel. Ensures compliance with standards for systems documentation.

4.3. Chief Enlisted Manager. This specialty “caps” at the Chief Master Sergeant level with those specialties that came up through the Cyber Support Systems Specialist (3D1XX) career ladders. Personnel attaining the rank of CMSgt are assigned broad ranging duties in directing and managing diverse communication functions.

4.4. MAJCOM Functional Manager (MFM) for Cyber Systems. (AFI 36-2201, *Air Force Training Program*; AFI 36-2101, *Classifying Military Personnel (Officers and Enlisted)*; *Air Force Enlisted Classification Directory*). Appointed by the MAJCOM Director of Communications (A6) or equivalent. Advises the MAJCOM/A6 and staff on 3D1XX utilization and training issues. Serves as the MAJCOM voting representative during career field Utilization and Training Workshops. Assists in gathering inputs and data to complete enlisted grade allocation for Career Progression Group (CPG) reviews. Provides guidance to subordinate units on 3D1XX personnel issues. Assists with the dissemination of information regarding Air Force and career field policies, plans, programs, and procedures to subordinate units. Assists in identifying qualified subject matter experts to help with the development of Specialty Knowledge Tests (SKT) and the Career Development Course (CDC). Acts as the primary MAJCOM reviewer on CDC training and classification waiver request packages. Coordinates on all MAJCOM 3D1XX staffing and manpower issues.

4.5. Air Force Career Field Manager (AFCFM) for the Cyber Systems Career Field. (AFPD 36-26, *Total Force Development*; AFI 36-2201, *Air Force Training Program*; AFI 36-2101, *Classifying Military Personnel (Officers and Enlisted)*; *Air Force Enlisted Classification Directory*). Appointed by the Air Force Chief of Warfighting Integration and Chief Information Officer (SAF/CIO A6). Advisor to the SAF/CIO A6 on all matters affecting the Cyber Systems career fields. Communicates directly with MFMs and AETC Training Managers to disseminate Air Force and career field policies and program requirements. Ensures development,

implementation, and maintenance of the CFETP. Serves as the chairperson for the STRT/U&TW and uses it as a forum to determine and manage career field education and training requirements, as they apply to mission needs. Possesses final authority to waive CFETP requirements, including CDCs. Assists AETC training managers and course supervisors with planning, developing, implementing, and maintaining all AFSC-specific training courses. Assists in the development of AFSC-related manpower standards.

5. Skill/Career Progression. Adequate training and timely progression from the apprentice to superintendent skill levels play an important role in the Air Force's ability to accomplish its mission. It is essential that everyone involved in training do their part to plan, manage and conduct an effective training program. The guidance provided in this part of the CFETP and the [3D1X2 Education and Training Path](#) will ensure individuals receive viable training at appropriate points in their careers. The training listed in this plan is specific to the AFSC 3D1X2 and must be used in conjunction with the common core training identified in the 3DXXX CFETP.

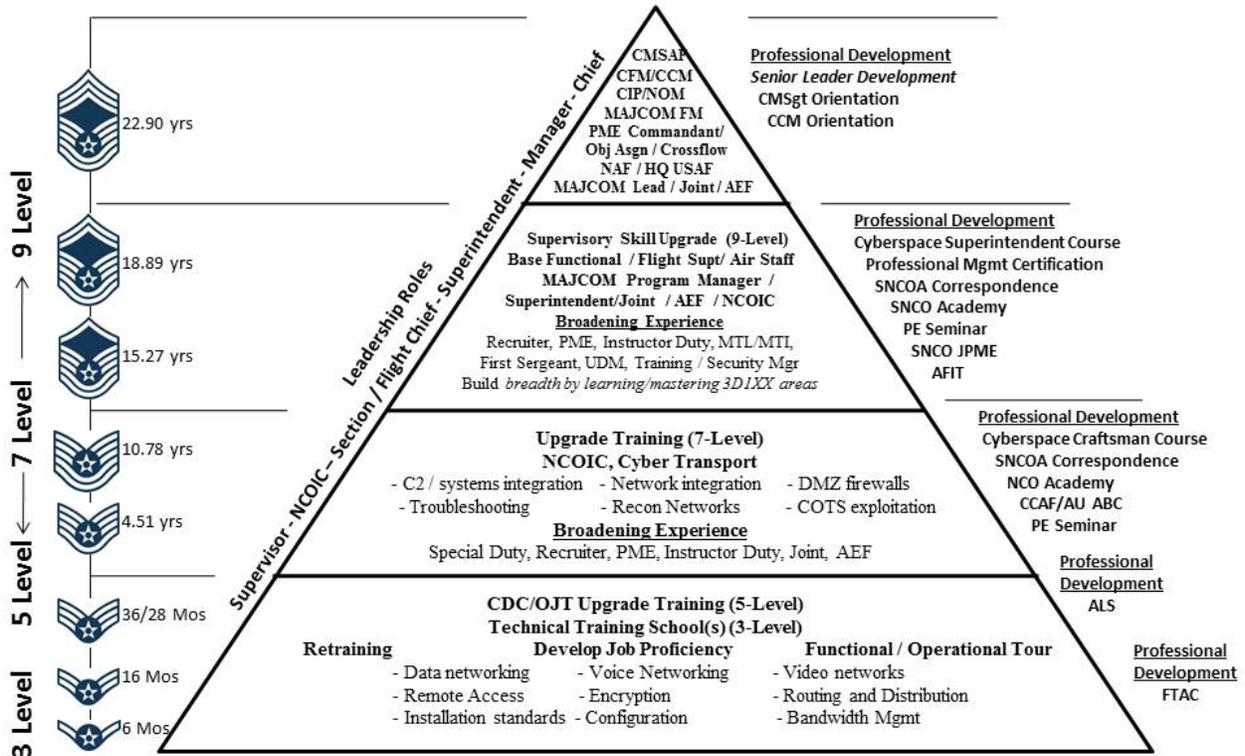
5.1. Apprentice (3) Level. The Cyber Transport Systems Apprentice Course, serves as the initial skills course and must be completed for the award of AFSC 3D132.

5.2. Journeyman (5) Level. Upgrade training consists of: (1) completing Cyber Transport Systems CDC 3D152; (2) completing all core tasks identified for 5-level; (3) completing all 5-level requirements outlined in the 3DXXX Cyberspace Support CFETP; (5) meeting time-in-training requirements IAW AFI 36-2201; and (6) obtaining supervisor recommendation and commander approval for the award of AFSC 3D152.

5.3. Craftsman (7) Level. Upgrade training consists of: (1) completing all core tasks identified for 7-level; (2) completing all 7-level requirements outlined in the 3DXXX Cyberspace Support CFETP; (3) meeting time-in-training requirements as identified in AFI 36-2201; and (4) obtaining supervisor recommendation and commander approval for the award of AFSC 3D172.

5.4. Superintendent (9) Level. 3D190 skill level requirements are listed in the 3DXXX Cyberspace Support (Common Core) CFETP.

3D1X2 Career Path Chart



Note: Average Time in Service (TIS) based on 2013 AF Promotion results. Refer to AFPC Web site for current information.

6. Training Decisions. This CFETP was developed to encapsulate an entire spectrum of training requirements for the Cyber Transport Systems career field, using a building block approach (simple to complex). Included in this spectrum was the strategy of when, where, and how to meet the training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training.

6.1. Proficiency Training. This training is job qualification for an assigned duty position. Additional qualification training becomes necessary when personnel transfer to another duty position, the unit mission changes, a new personnel program comes on board, or any time changes in techniques or procedures occur.

6.1.1. The 81st TRSS/TSQ (Q-Flight) develops AFJQSs/AFQTPs to support tasks relating to communications-electronics and communications-computer systems, functions and duties. Completion of AFJQSs/AFQTPs is mandatory by duty position for personnel in upgrade or qualification training.

6.1.2. CDC development is restricted to six volumes, two hundred pages each. The first volumes will be common to all 3D1XX AFSCs, followed by the respective AFSC-specific volumes. The following table outlines 5-level CDC contents.

3DX5X	
VOLUME 1	Support to the Cyberspace Mission
VOLUME 2	Information Technology Concepts and Maintenance Principles
3D152	
VOLUME 1	Transport Principles
VOLUME 2	Network Concepts
VOLUME 3	Systems and Procedures

6.2. Commercial Certifications. Below are some available commercial certifications for 3D1X2 technicians. An “X” in the DANTES column indicates that testing may be completed at the base education office. Tuition Assistance (TA) pays for only one certification during an entire career. See the local base education office for more information. The Department of Veterans Affairs (VA) has licensing and certification benefits that can be used, including the Montgomery GI Bill. Visit <http://www.gibill.va.gov/pamphlets/lcweb.htm> for more information.

Certifications	Criteria	Website	DANTES
Electronics Technician Association (ETA) <ul style="list-style-type: none"> • Associate (CET) • Journeyman (CET) <ul style="list-style-type: none"> Certified Network Computer Tech Certified Network System Tech Computer Competencies Computer Service Technician Certified Network Computer Tech Certified Network System Tech Web Specialist Electronic-Commerce Developer Telecommunications • Senior (CET) • Master (CET) 	<ul style="list-style-type: none"> • Experience • Written Exam 	http://www.eta-i.org/	X
National Association of Radio and Telecommunications Engineers (NARTE) <ul style="list-style-type: none"> • Junior Telecommunications Tech • Senior Telecommunications Tech • Master Telecommunications Tech 	<ul style="list-style-type: none"> • Education • Experience • References • Written Exam 	http://www.narte.org	X
Cisco Certifications <ul style="list-style-type: none"> • CCNA (Voice) Associate • CCIE (Voice) Expert • CCVP (Voice) Professional • Cisco IP Telephony Design • Cisco IP Telephony Support • Cisco IP Telephony Express • Cisco IP Telephony Operations • Cisco IP Contact Center Express • Cisco Unity Design • Cisco Unity Support • CCNP Professional • CCSP Professional 	<ul style="list-style-type: none"> • Education • Experience • Written Exam 	http://www.cisco.com	
Avaya Certifications <ul style="list-style-type: none"> • Avaya Certified Associate • Avaya Certified Specialist (Design or Implementation) • (ACE) Avaya Certified Expert (Design or Implementation) 	<ul style="list-style-type: none"> • Education • Experience • Written Exam 	www.avaya.com/certification	
Nortel Certifications <ul style="list-style-type: none"> • (NCDE) Nortel Certified Design Expert • (NCSE) Nortel Certified Support Expert • (NCDS) Nortel Certified Design • (NCSS) Nortel Certified Support • (NCTS) Nortel Certified Technology 	<ul style="list-style-type: none"> • Education • Experience • Written Exam 	http://nortelnetworks.com/	
Siemens Certifications <ul style="list-style-type: none"> • SCCP - Siemens Certified Communication Professional • SCCS - Siemens Certified Communication Specialist • SCCA - Siemens Certified Communication Associate 	<ul style="list-style-type: none"> • Education • Experience • Written Exam 	http://www.siemens.com	
IA Technical Level I** <ul style="list-style-type: none"> A+ Network + 	<ul style="list-style-type: none"> • Education • Experience • Written Exam 	AF e-Learning Website Certification exam voucher available from CYSS	X
IA Technical Level II	<ul style="list-style-type: none"> • Education 	AF e-Learning Website	X

IA Management Level I Security +	<ul style="list-style-type: none"> • Experience • Written Exam 	Certification exam voucher available from CYSS	
IA Technical Level III IA Management Level II & Level III CISSP	<ul style="list-style-type: none"> • Education • Experience • Written Exam 	AF e-Learning Website Certification exam voucher available from CYSS	X

* A+ certification will convert to an ETA Computer Service Technician certification.

** Net+ certification will convert to an ETA Certified Network Computer Technician certification.

7. Community College of the Air Force (CCAF) Academic Programs. Enrollment in CCAF occurs upon completion of basic military training. CCAF provides the opportunity for all enlisted members to obtain an Associate in Applied Science degree. In order to be awarded the CCAF degree, all academic requirements must be completed before the student separates from the Air Force, retires, or is commissioned as an officer. In addition to its associate’s degree program, CCAF offers the following:

7.1. Occupational Instructor Certification. The College offers the Occupational Instructor Certification to instructors teaching full time in a CCAF affiliated school. To qualify, instructors must complete a 3 semester hour Instructor Methodology course, a 12 semester hour Teaching Internship, have two years teaching experience from date of Teaching Internship completion, hold an associate or higher degree, and be recommended by their commander/commandant.

7.2. The Electronic Systems Technology (4VHP) program applies to this career fields.

7.2.1. Degree Requirements: Individuals must hold the 5-skill level at the time of program completion.

.....	Semester hours
Technical Education.....	24
Leadership, Management, and Military Studies	6
Physical Education.....	4
General Education.....	15
Program Electives	15
Total	64

7.2.2. Technical Education (24 semester hours): A minimum of 12 semester hours of Technical Core subjects and courses must be applied and the remaining semester hours will be applied from Technical Core/Technical Elective subjects and courses.

7.2.3. Leadership, Management, and Military Studies (6 semester hours): Professional military education and/or civilian management courses. See CCAF General Catalog for application of civilian management courses.

7.2.4. Physical Education (4 semester hours): Satisfied upon completion of basic military training.

7.2.5. General Education (15 semester hours): Courses must meet the criteria for application of courses to the General Education requirement and be in agreement with the definitions of applicable General Education subjects/courses as outlined in the CCAF General Catalog.

7.2.6. General Education Mobile (GEM): GEM is a partnership between CCAF and civilian academic institutions to offer general education courses to meet CCAF A.A.S. degree

requirements. Courses are offered via distance learning which reduces CCAF educational impact of deployments, PCS and family commitments.

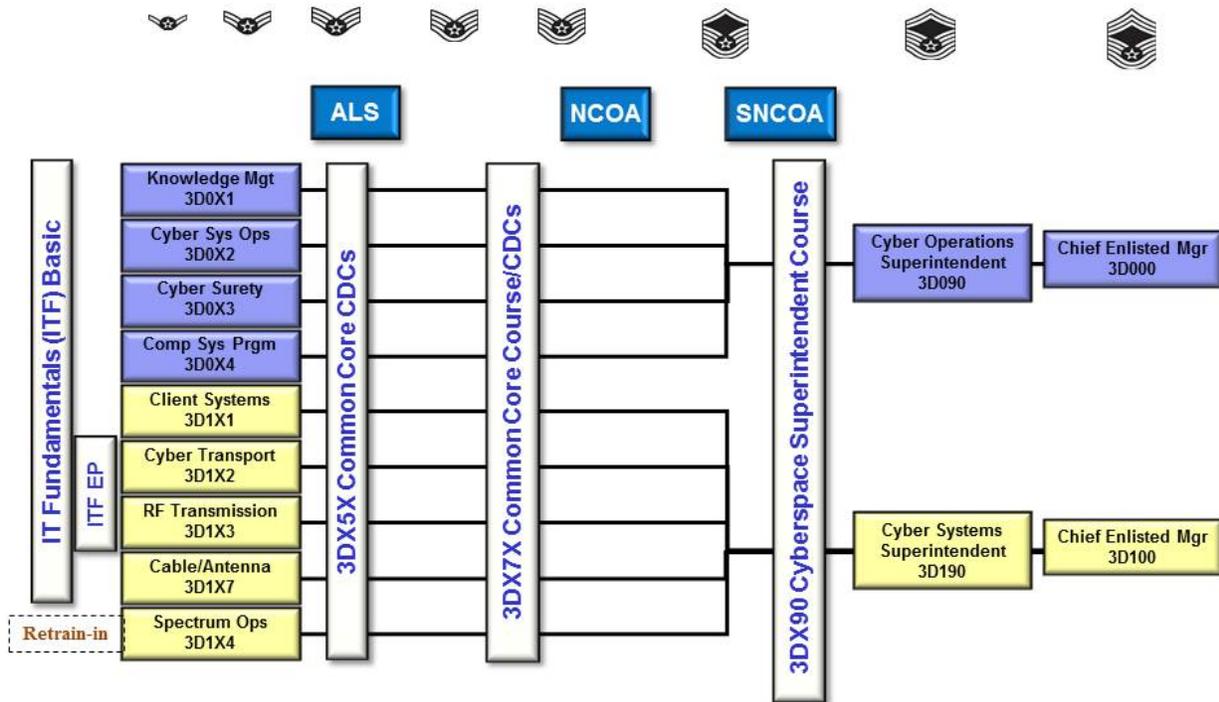
7.2.7. Program Elective (15 semester hours): Satisfied with applicable Technical Education; Leadership, Management, and Military Studies; or General Education courses, including natural science courses meeting General Education requirement application criteria. Six semester hours of CCAF degree applicable technical credit otherwise not applicable to this program may be applied.

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

7.4. See the current CCAF General Catalog for details regarding the Associates of Applied Science in Electronic Systems Technology. The catalog is available at your education office, or from <http://www.au.af.mil/au/ccaf/>.

7.5. Additional off-duty education is highly encouraged. Individuals desiring to become an AETC instructor should be actively pursuing an associate degree. A degreed faculty is necessary to maintain CCAF's accreditation through the Southern Association of Colleges and Schools.

8. Career Field Path. The following summarizes career progression and personnel allocations across the career ladder. 3D0XX and 3D1XX personnel maintain their individual AFSC identifiers through the rank of MSgt. Upon promotion to SMSgt, 3D0X1/3D0X2/3D0X3/3D0X4 merge to become a 3D090; AFSCs 3D1X1/3D1X2/3D1X3/3D1X4/3D1X7 merge to become a 3D190. Specific demographic information is available on the Web at <http://wwa.afpc.randolph.af.mil/demographics/>.



**3D1X2, CYBER TRANSPORT SYSTEMS
EDUCATION AND TRAINING PATH**

EDUCATION AND TRAINING REQUIREMENTS	AVERAGE SEW ON TIME AND COMMENTS
BASIC MILITARY TRAINING SCHOOL (BMTS)	
APPRENTICE TECHNICAL SCHOOL (3-SKILL LEVEL).....Mandatory.	Amn6 months
UPGRADE TO JOURNEYMAN (5-SKILL LEVEL) Minimum 12 months OJT (9 months for retrainees). Complete 5-Level CDCs.....Mandatory. Specific AFJQs/AFQTPs for equipment at assigned location by duty position.....Mandatory. CS Management and Generic AFJQs/AFQTPs for various unit level duties.....Mandatory. Complete 3DXXX CFETP requirements for 5-Skill LevelMandatory. AETC Supplemental training courses as determined by MAJCOM Optional. Community College of the Air Force Associates Degree Optional.	A1C16 months SrA3 years Earliest28 Months HYT8 years
AIRMAN LEADERSHIP SCHOOL (ALS) Attendance is limited to SSgt selectees or those attaining 48 months Total Active Federal Military Service (TAFMS) and who have not been selected for promotion to SSgt. Completion is mandatory before assuming the rank of SSgt. ANG/AFRC may complete by correspondence course.....Mandatory.	TRAINER: Must meet trainer eligibility requirements as per AFI 36-2201

**3D1X2, CYBER TRANSPORT SYSTEMS
EDUCATION AND TRAINING PATH**

EDUCATION AND TRAINING REQUIREMENTS	AVERAGE SEW ON TIME AND COMMENTS
<p>UPGRADE TO CRAFTSMAN (7-SKILL LEVEL) Minimum rank of SSgt. 12 months OJT (6 months for retrainees). Completion of 7-level CDCs, if available. Must be 7-level to sew on TSgt.....Mandatory. Completion of the E6ACW3DX7X 01AA Cyberspace Career Advancement Course.....Mandatory. CS Management and Generic AFJQs/AFQTPs for various unit level duties.....Mandatory. Complete 3DXXX CFETP requirements for 7-Skill LevelMandatory. AETC Supplemental training courses as determined by MAJCOM Optional. Community College of the Air Force Associates DegreeDesired.</p>	<p>SSgt.....4.51 years Earliest3 years HYT15 years TSgt.....10.78 years Earliest5 years HYT20 years CERTIFIER: Must meet certifier eligibility requirements as per AFI 36-2201</p>
<p>NONCOMMISSIONED OFFICER ACADEMY (NCOA). Completion is mandatory before assuming the rank of MSgt.Mandatory. Active duty attendance is limited to TSgt, or MSgt. ANG/AFRC SSgt or TSgt may attend in-residence or complete by correspondence course. Community College of the Air Force Associates Degree.....Highly Desired</p>	<p>MSgt.....15.27 years Earliest8 years HYT24 years</p>

**3D1X2, CYBER TRANSPORT SYSTEMS
EDUCATION AND TRAINING PATH**

EDUCATION AND TRAINING REQUIREMENTS	AVERAGE SEW ON TIME AND COMMENTS
<p>USAF SENIOR NONCOMMISSIONED OFFICER ACADEMY (SNCOA) Attendance is limited to SMSgt or SMSgt Selectee. Completion is mandatory before assuming the rank of SMSgtMandatory. SNCOA Correspondence Course..... Optional. ANG/AFRC may complete by correspondence course. ANG/AFRC MSgts may attend in-residence.....Mandatory.</p>	<p>SMSgt18.89 years Earliest11 years HYT26 years</p>
<p>E6ACW3DX9X 00AA CYBERSPACE SUPERINTENDENT COURSE Attendance is limited to CMSgt, SMSgt and SMSgt selectees. Completion is mandatory within one year of selection to SMSgtMandatory.</p>	
<p>UPGRADE TO SUPERINTENDENT (9-SKILL LEVEL) Awarded upon sew on of SMSgt.....Mandatory. Complete 3DXXX CFETP requirements for 9-Skill LevelMandatory. CS Management and Generic AFJQs/AFQTPs for various unit level duties.....Mandatory.</p>	
<p>Chief Enlisted Manager (CEM)</p>	<p>CMSgt22.90 years Earliest14 years HYT30 years</p>

NOTE 1: Published sew-on times are Air Force averages. Refer to the Air Force Personnel Center's homepage to determine career field specific information: https://gum-crm.csd.disa.mil/app/answers/detail/a_id/13016.

NOTE 2: See Part II, Sections C and D for a list of AFJQs/AFQTPs and AETC supplemental training.

NOTE 3: All core/duty position tasks must be completed prior to upgrade.

Section C - Skill Level Training Requirements

9. Purpose. The various skill levels in the career field are defined in terms of tasks and knowledge requirements for each skill level in the Cyber Transport Systems career field of the Cyber Support Systems career ladder. They are stated in broad, general terms and establish the standards of performance. Core tasks, knowledge items, and skill requirements for this specialty are identified in the STS, COL, CDCs, AFJQs/AFQTPs, etc. Completion of the mandatory 3-level skill awarding course, CDCs, and applicable AFJQs/AFQTPs define the Air Force core tasks for this specialty. NOTE: The 3DXXX Cyberspace Support CFETP lists additional skill-level requirements which are required by all 3DXXX AFSCs.

10. Specialty Qualification Requirements.

10.1. Apprentice (3-Level) Training.

KNOWLEDGE	Knowledge of Electronic and Network Principles, Information Assurance, Telephony, Copper and Fiber-Optic Transmission Principles, Cryptographic Techniques, Network System Installation Practices, Project and Circuit Diagram Interpretation, Test Equipment, Special Tools, and Management Practices is Mandatory.
EDUCATION	Completion of high school is mandatory. Additional courses in Mathematics, Computer Science, or Information Technologies (IT) are desirable. Network+ certification is desirable.
TRAINING	Completion of the Cyber Transport Systems Specialist course, E3ABR3D132 00AA (PDS Code ZIG) (See Part II, Section B for Course Objective List)
EXPERIENCE	None required
OTHER	For award and retention of AFSC 3D132, must maintain an Air Force Network License according to AFMAN 33-282, Computer Security (COMPUSEC). Normal color vision as defined in AFI 48-123, Medical Examination and Standards. The ability to obtain a government license according to AFMAN 24-309, Vehicle Operations. Completion of a current Single Scope Background Investigation (SSBI) according to AFI 31-501, <i>Personnel Security Program Management</i> is mandatory. NOTE: Award of the 3-skill level without a completed SSBI is authorized provided an interim SSBI has been granted according to AFI 31-501.
IMPLEMENTATION	Attendance at the Apprentice Cyber Transport Systems Specialist Course is mandatory for award of the 3-skill level unless waived by the AFCFM.

10.2. Journeyman (5-Level) Training.

KNOWLEDGE	All 3D132 Knowledge Qualifications apply to the 3D152 Requirements. Completion of the 3D152 Career Development Courses.
TRAINING	Completion of all 5-level requirements outlined in the 3DXXX Cyberspace Support CFETP. No mandatory AETC training courses are required for upgrade.
EXPERIENCE	Qualification in and possession of AFSC 3D132. Experience performing: Installation, Maintenance, And Repair of Voice, Data, and Video Network Infrastructure and Cryptographic Equipment. Completion of all STS core tasks. Completion of applicable AFJQs/AFQTPs. Completion of all local tasks assigned for the duty position.
OTHER	For award and retention of AFSC 3D152, must maintain an Air Force Network License according to AFMAN 33-282, Computer Security (COMPUSEC). Completion of and eligibility for Single Scope Background Investigation (SSBI) according to AFI 31-501, <i>Personnel Security Program Management</i> is mandatory for award and retention of this skill level. Normal color vision as defined in AFI 48-123, <i>Medical Examinations and Standards</i> .
IMPLEMENTATION	Entry into formal journeyman upgrade training is accomplished once individuals are assigned to their first duty station. Qualification training is initiated anytime individuals are assigned duties for which they are not qualified. Use CDCs, CBTs, and AFJQs/AFQTPs concurrently to obtain the necessary qualification for refresher and cross-utilization training.

10.3. Craftsman (7-Level) Training.

KNOWLEDGE	All 3D152 Knowledge Qualifications apply to the 3D172 Requirements
TRAINING	Completion of the E6ACW3DX7X 01AA Cyberspace Career Advancement Course is mandatory. Completion of all 7-level requirements outlined in the 3DXXX Cyberspace Support CFETP
EXPERIENCE	Qualification in and possession of AFSC 3D152. Experience Performing or Supervising Installation, Maintenance, and Repair of Voice, Data, and Video Network Infrastructure and Cryptographic Equipment. Completion of all STS core tasks. Completion of applicable AFJQs/AFQTPs. Completion of all local tasks assigned for the duty position.
OTHER	For award and retention of AFSC 3D172, must maintain an Air Force Network License according to AFMAN 33-282, Computer Security (COMPUSEC). Completion of and eligibility for Single Scope Background Investigation (SSBI) according to AFI 31-501, <i>Personnel Security Program Management</i> is mandatory for award and retention of this skill level. Normal color vision as defined in AFI 48-123, <i>Medical Examinations and Standards</i> .
IMPLEMENTATION	Entry into OJT is initiated when individuals obtain the necessary rank and skill level. Qualification training is initiated anytime an individual is assigned duties for which they are not qualified. Use CDCs and AFJQs/AFQTPs concurrently to obtain the necessary qualification for refresher and cross-utilization training.

10.4. Superintendent (9-Level) Training.

KNOWLEDGE	Techniques and Procedures of Systems Analysis and Design Interpretation of Wiring and Logic Diagrams Project Management Software Methodology System Operation and Maintenance System and Equipment Capability, Capacity, and Logic Performance Measurement, Security, and Resource Management
TRAINING	Completion of E6ACW3DX9X 00AA Cyberspace Superintendent Course. Mandatory.
EXPERIENCE	Qualification in and possession of AFSC 3D17X Managing or Directing Functions such as Installing, Maintaining, Repairing, or Modifying the Various Systems and Related Equipment of the Feeder Specialties.
OTHER	For award and retention of AFSC 3D190, must maintain an Air Force Network License according to AFMAN 33-282, Computer Security (COMPUSEC). Eligibility for a Secret security clearance according to AFI 31-501, <i>Personnel Security Program Management</i> , is mandatory for award and retention of this skill level.
IMPLEMENTATION	Entry into OJT is initiated when individuals are selected for the rank of SMSgt. Qualification training is initiated anytime individuals are assigned duties for which they are not qualified.

10.5. Training Sources.

10.5.1. AFSC specific training – 338th TRS, Keesler AFB, MS at <https://etca.randolph.af.mil/>.

10.5.2. CDCs 3D152 are available for upgrade purposes through the unit training manager. For individual qualification and cross-utilization training, CDCs are ordered through the unit training office.

10.5.3. AFJQSs/AFQTPs are Air Force publications and are mandatory for use by personnel in upgrade or qualification training. They are developed by the 81st TRSS/TSQ (Q-Flight), Keesler AFB, MS and may be downloaded from https://cs3.eis.af.mil/sites/20946/AFKN_Docs/Forms/AllItems.aspx . Procedures for requesting development of AFJQSs/AFQTPs are contained in AFI 33-154, *Air Force On-the-Job Training Products for Cyberspace Support Enlisted Specialty Training*. AFJQSs/AFQTPs are listed in Part II, Section C, of this CFETP.

Section D - Resource Constraints

11. Purpose. This section identifies known resource constraints that preclude optimal/desired training from being developed or conducted, including information such as part numbers, national stock numbers, number of units required, cost, manpower, etc. Included are narrative explanations of each resource constraint and an impact statement describing what effect each constraint has on training. Finally, this section includes actions required, OPR and target completion date. Resource constraints will be, at a minimum, reviewed and updated annually.

12. Apprentice (3-Level) Training.

12.1. Constraints: None

12.1.1. Impact. N/A

12.1.2. Resources Required. N/A

12.1.3. Action Required. N/A

12.1.4 OPR/Target Completion Date. N/A

13. Journeyman (5-Level) Training.

13.1. Constraints: None.

13.1.1. Impact. N/A

13.1.2. Resources Required. N/A

13.1.3. Action Required. N/A

13.1.4. OPR/Target Completion Date. N/A

14. Craftsman (7-Level) Training.

14.1. Constraints: None.

14.1.1. Impact. N/A

14.1.2. Resources Required. N/A

14.1.3. Action Required. N/A

14.1.4. OPR/Target Completion Date. N/A

15. Superintendent (9-Level) Training.

15.1. Constraints: None.

15.1.1. Impact. N/A

15.1.2. Resources Required. N/A

15.1.3. Action Required. N/A

15.1.4. OPR/Target Completion Date. N/A

Section E - Transition Training Guide

There are currently no transition training requirements. This area is reserved.

PART II

Section A - Specialty Training Standard

- 1. Implementation.** This STS will be used for technical training provided by AETC for the 3-level class beginning 5 June 2015.
- 2. Purpose.** As prescribed in AFI 36-2201 this STS:
 - 2.1.** Lists in column 1 (Task, Knowledge, and Technical Reference) the most common tasks, knowledge, and technical references (TR) necessary for airman to perform duties in the 3-, 5-, and 7-skill level. Column 2 (Core Tasks) identifies, by skill level, specialty-wide training requirements. NOTE: Core tasks are minimum task training requirements for upgrade.
 - 2.2.** Provides certification for OJT. Column 3 is used to record completion of tasks and knowledge training requirements. Use automated training management systems to document technician qualifications, if available. For initial certification or transcribing documentation complete the columns in accordance with AFI 36-2201.
 - 2.3.** Shows formal training and correspondence course requirements. Column 4 shows the proficiency to be demonstrated on the job by the graduate as a result of training on the task/knowledge and the career knowledge provided by the correspondence course. See the Air University Catalog maintained at https://cs3.eis.af.mil/sites/AE-ED-02-37/AFKN_Docs/Forms/AllItems.aspx?RootFolder=%2Fsites%2FAE%2DED%2D02%2D37%2FAFKN%5FDocs%2Fe%2DCDC%5FCDC%20Catalog for current CDC listings.
 - 2.4.** Qualitative Requirements. Attachment 1 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.
 - 2.5.** Becomes a job qualification standard (JQS) for on-the-job training when placed in AF Form 623, *Individual Training Record* folder and used according to AFI 36-2201.
 - 2.6.** Is a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKT) are developed at the Airmen Advancement Division by senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the Enlisted Promotion References and Requirements Catalog (EPRRC). Individual responsibilities are listed in chapter 1 of AFI 36-2605, *Air Force Military Personnel Testing System*. WAPS is not applicable to the Air National Guard or Air Reserve Forces.
- 3. Recommendations.** Comments and recommendations are invited concerning the quality of AETC training. A Training Feedback Hotline has been installed for the supervisors' convenience. For a quick response to concerns, call our Training Feedback Hotline at DSN 597-4566, fax us at DSN 597-3790, or e-mail us at 81trg-tget@keesler.af.mil. Reference this STS and identify the specific area of concern (paragraph, training standard element, etc.).

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

MICHAEL J. BASLA, Lieutenant General, USAF
Chief, Information Dominance and
Chief Information Officer

Attachments:

1. Qualitative Requirements
2. Specialty Training Standard (STS) 3D1X2

PREFACE

NOTE 1: Users are responsible for annotating technical references to identify current references pending STS revision. Locate current Air Force publications at:

DOD Issuances and OSD Administrative Instructions at

<http://www.dtic.mil/whs/directives/>

Air Force publications at <http://www.e-publishing.af.mil/>.

AFSSIs at <https://private.afnic.af.mil/ia/PolicyDocuments.cfm>

DISA Circulars and Instructions at <https://www.disa.mil/About/DISA-Issuances>

Technical Orders (TO) at <https://www.my.af.mil/etims/ETIMS/index.jsp>

AF e-Learning:

<https://usafprod.skillport.com/skillportfe/custom/login/usaf/seamlesslogin.action>

NOTE 2: Knowledge and/or performance tasks are defined in the AFJQS. AFJQS items set the standard for qualification and certification and are mandatory for use in conjunction with this STS when applicable to the duty position.

NOTE 3: All objectives are trained during wartime.

NOTE 4: Commanders, supervisors and trainers will use TBA to track and manage training for all 3DXXX personnel.

NOTE 5: When an AFJQS is loaded into TBA, AFJQS task numbering will vary from the STS. The numbering scheme is defined by your work center specific master training plan.

NOTE 6: Third person certification is not required for all Cyber Support Specialist personnel. However, members (to include civilians and contractors) assigned to crew positions are still required position certification in accordance with Stan-Eval procedures.

NOTE 7: Senior NCO's in the 3DXXX AFSCs are not required to have an Individual Training Plan (ITP) with the following exceptions: personnel in upgrade training status, or performing equipment maintenance as part of primary duties. Unit Commanders can require Senior NCO's with UTC tasks to have an ITP.

NOTE 8: Task will be taught in accordance with Security+ Certification CTS.

Qualitative Requirements

<p><i>THIS BLOCK IS FOR IDENTIFICATION PURPOSES ONLY</i></p> <p>Personal Data – Privacy Act of 1974</p>		
PRINTED NAME OF TRAINEE (<i>Last, First, Middle Initial</i>)	INITIALS (<i>Written</i>)	LAST 4 OF SSAN
PRINTED NAME OF TRAINER AND CERTIFYING OFFICIAL AND WRITTEN INITIALS		
N/I	N/I	

Qualitative Requirements

PROFICIENCY CODE KEY		
	SCALE VALUE	DEFINITION: The individual
Task Performance Levels	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (EXTREMELY LIMITED)
	2	Can do most parts of the task. Needs help only on hardest parts. (PARTIALLY PROFICIENT)
	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT)
*Task Knowledge Levels	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)
	b	Can determine step by step procedures for doing the task. (PROCEDURES)
	c	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
	d	Can predict, isolate, and resolve problems about the task. (ADVANCED THEORY)
**Subject Knowledge Levels	A	Can identify basic facts and terms about the subject. (FACTS)
	B	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)
	C	Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)
Explanations		
<p>* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Example: b and 1b)</p> <p>** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks. This mark is used alone instead of a scale value to show that no proficiency training is provided in the course or CDC.</p> <p>X This mark is used alone in course columns to show that training is required but not given due to limitations in resources.</p> <p>NOTE: All tasks and knowledge items shown with a proficiency code are trained during wartime.</p> <p>(-) When this code is used in the Core Task Column it indicates that the qualification is a local determination.</p> <p>(5) When this code is used in the Core Task Column it indicates the CFM has mandated this task as a core 5-level requirement. The training to satisfy this requirement is either provided through OJT, CBTs, CDCs, or a combination.</p> <p>(7) When this code is used in the Core Task Column it indicates the CFM has mandated this task as a core 7-level requirement. The training to satisfy this requirement is either provided through OJT, CBTs, CDCs, or a combination.</p>		

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. CORE & WARTIME TASKS	3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED			
		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
1. CYBER TRANSPORT SYSTEMS CAREER FIELD TR: AFH 33-337; AFIs 10-401, 33-115 Vols 1, 2, & 3; AFI 36-2101; 3D1X2 CFETP										
1.1. Structure	-						-	-	-	-
1.2. Progression within Air Force Specialty Code 3D1X2	-						-	-	-	-
1.3. Read CFETP 3D1X2	5						-	-	-	-
1.4. Air Force Specialty Code 3D1X2										
1.4.1. Explain Duties of AFSC	5						A	A	-	-
1.4.2. Explain Responsibilities of AFSC	5						A	B	-	-
1.4.3. AFSC Core Competencies	-						-	A	-	-
1.4.4. Qualifications	-						-	-	-	-
1.4.5. Customer Relations	5						-	-	-	-
2. RISK MANAGEMENT (RM) TR: AFIs 90-802, 91-203, 91-302										
2.1. Air Force Consolidated Occupational Safety Instructions for AFSC	5						A	A	-	-
2.2. Hazards of the AFSC	5						A	A	-	-
2.3. Practice Safety Precautions										
2.3.1. Maintenance Actions	5						2b	-	-	-
2.3.2. Energized Equipment	5						2b	-	-	-
3. UTILIZE PUBLICATIONS AND DIRECTIVES TR: AFIs 33-Series; AF Records Distribution System; http://www.e-publishing.af.mil/										
3.1. Use Publications When Performing Work	5						2b	-	-	-
4. OBTAIN INFORMATION ASSURANCE TECHNICAL (IAT) LEVEL II / INFORMATION ASSURANCE MANAGEMENT (IAM) LEVEL I CERTIFICATION (or higher level certification, see DISA IASE website: http://iase.disa.mil/eta/iawip/)										
4.1. Security+ Certification TR: 3DXXX – CTS E3ATR3DXXX 00AC See Note 8	-						-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. CORE & WARTIME TASKS	3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED			
		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
5. AIR FORCE COMPUTER BASED TRAINING (Note 1) TR: https://www.my.af.mil/faf/FAF/fafHome.jsp (Under AF e-Learning)										
5.1. 3D1XX Common Fundamentals Training Tracks										
5.1.1. Introduction to Telecommunications (72111_ENG)	5						-	-	-	-
5.1.2. Introduction to Signals and Signal Transmission (84650 ENG)	5						-	-	-	-
5.1.3. Introduction to Communications Methods and Equipment (110725 ENG)	5						-	-	-	-
5.1.4. CompTIA Network+ 2009: Network Fundamentals (cs_cntn_a01_it_enus)	5						-	-	-	-
5.1.5. Techniques for Improved Time Management (pd_01_a02_bs_enus)	5						-	-	-	-
5.1.6. CompTIA Network+ 2009: Wide Area Networks (cs_cntn_a06_it_enus)	5						-	-	-	-
5.1.7. Project Management Overview (proj_05_a02_bs_enus)	7						-	-	-	-
5.1.8. Project Management Process Groups (proj_05_a03_bs_enus)	7						-	-	-	-
5.1.9. Integrated Initiation and Planning (proj_06_a01_bs_enus)	7						-	-	-	-
5.1.10. Integrated Project Execution, Monitoring, and Control (proj_06_a02_bs_enus)	7						-	-	-	-
5.1.11. Integrated Project Change Control and Close (proj_06_a03_bs_enus)	7						-	-	-	-
5.1.12. Risk Management Planning (proj_13_a01_bs_enus)	7						-	-	-	-
5.2. 3D1X2 Cyber Transport Systems Track										
5.2.1. Establishing a Baseline (118128_eng)	5						-	-	-	-
5.2.2. Determining an Effective Troubleshooting Strategy (118129_eng)	5						-	-	-	-
5.2.3. Addressing Problems at the Physical and Data-link Layers (118130_eng)	5						-	-	-	-
5.2.4. Resolving Problems at the Network Layer (118131_eng)	7						-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. CORE & WARTIME TASKS	3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED			
		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
5.2.5. Resolving Problems at the Transport and Application Layers (118132_eng)	-						-	-	-	-
5.2.6. Implementing Switching in the Network (119265_eng)	-						-	-	-	-
5.2.7. Configuring VLANs and VTP (119266_eng)	-						-	-	-	-
5.2.8. Implementing Spanning Tree Protocol (119267_eng)	-						-	-	-	-
5.2.9. Implementing Multilayer Switching in the Network (119269_eng)	-						-	-	-	-
5.2.10. Improving Availability on Multilayer Switched Networks (119270_eng)	-						-	-	-	-
5.2.11. Examining Cisco AVVID Services and Applications (119271_eng)	-						-	-	-	-
5.2.12. Implementing QoS in Multilayer Switched Networks (119272_eng)	-						-	-	-	-
5.2.13. Optimizing and Securing Multilayer Switched Networks (119273_eng)	-						-	-	-	-
5.2.14. Routing Protocols (119556_eng)	5						-	-	-	-
5.2.15. Designing Cisco IP Telephony Solutions (121375_eng)	-						-	-	-	-
5.2.16. Configuring Cisco Catalyst Switch Operations (124874_eng)	-						-	-	-	-
5.2.17. Routing in Cisco Networks (124875_eng)	-						-	-	-	-
5.2.18. Implementing Routing Protocols on Cisco Networks (124876_eng)	-						-	-	-	-
5.2.19. Managing IP Traffic on Cisco Networks (124877_eng)	-						-	-	-	-
5.2.20. Extending a Cisco Network to a WAN (124878_eng)	-						-	-	-	-
5.2.21. Completing ISDN Calls on Cisco Networks (125065_eng)	-						-	-	-	-
5.2.22. Network Discovery and Neighbor Device Connections (125489_eng)	-						-	-	-	-
5.2.23. Cisco Internetwork Troubleshooting - Introduction (40504_eng)	-						-	-	-	-
5.2.24. Applying Cisco Troubleshooting Tools (40509_eng)	-						-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. CORE & WARTIME TASKS	3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED			
		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
5.2.25. Diagnosing and Correcting Campus Problems in a Cisco Internetwork (40513_eng)	-						-	-	-	-
5.2.26. Diagnosing and Correcting Switch and VLAN Problems in a Cisco Internetwork (40517_eng)	-						-	-	-	-
5.2.27. Diagnosing and Correcting WAN Problems in a Cisco Internetwork (40522_eng)	-						-	-	-	-
5.2.28. Telecommunications Essentials (72123_eng)	5						-	-	-	-
5.2.29. Computer Telephony Integration (73383_eng)	5						-	-	-	-
5.2.30. Introduction to ISDN (74051_eng)	5						-	-	-	-
5.2.31. ISDN Protocols (74052_eng)	5						-	-	-	-
5.2.32. Digital Subscriber Line (74054_eng)	-						-	-	-	-
5.2.33. LDAP Fundamentals (85776_eng)	-						-	-	-	-
5.2.34. Intro to IPv6 (80284_eng)	5						-	-	-	-
6. MAINTENANCE PRACTICES TR: TO 33K-1-100 and Applicable Test Equipment Technical Orders										
6.1. Test Equipment										
6.1.1. Oscilloscope (O-Scope)	-						A	A	-	-
6.1.2. Multimeter	5						A	A	-	-
6.1.3. Local Area Network (LAN) Test Set										
6.1.3.1. LAN Test Set Fundamentals	-						A	-	-	-
6.1.3.2. Operate LAN Test Set	-						2b	-	-	-
6.1.4. Optical Time Domain Reflectometer (OTDR)	5						A	A	-	-
6.1.5. Time Domain Reflectometer (TDR)	-						A	A	-	-
6.1.6. Bit Error Rate Test Set (BERT)										
6.1.6.1. BERT Fundamentals	-						A	B	-	-
6.1.6.2. Operate BERT	-						2b	-	-	-
6.1.7. Spectrum Analyzer	-						-	-	-	-
6.1.8. Network/Protocol Analyzer (Sniffer)										
6.1.8.1. Sniffer Fundamentals	5						A	B	-	-
6.1.8.2. Operate Sniffer	-						2b	-	-	-
6.1.9. Breakout Box	-						A	A	-	-

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		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
6.1.10. Audio Oscillator	-						-	-	-	-
6.1.11. Vibraground Meter	-						-	-	-	-
6.1.12. Frequency (Freq) Generator	-						-	-	-	-
6.1.13. Fiber Optic Test Set (Light Source)	-						A	-	-	-
6.1.14. Telephone Test Set										
6.1.14.1. Telephone Test Set Fundamentals	-						A	-	-	-
6.1.14.2. Operate Telephone Test Set	-						2b	-	-	-
6.1.15. Inductive Amplifier & Tone Generator										
6.1.15.1. Inductive Amplifier & Tone Generator Fundamentals	-						A	-	-	-
6.1.15.2. Operate Inductive Amplifier & Tone Generator	-						2b	-	-	-
6.1.16. ISDN Telephone Test Set	-						A	-	-	-
6.1.17. ADSL Telephone Test Set	-						A	-	-	-
6.2. Specialized Tools TR: Applicable Technical Publications; MPTOs 00-25-234-WA-1 and 31-1-141-15										
6.2.1. Impact Tool										
6.2.1.1. Impact Tool Fundamentals	5						A	-	-	-
6.2.1.2. Use Impact Tool	5						2b	-	-	-
6.2.2. Amphenol Tool	-						A	-	-	-
6.2.3. Wire Wrap Tool/Unwrap Tool										
6.2.3.1. Wire Wrap Tool/Unwrap Tool Fundamentals	-						A	-	-	-
6.2.3.2. Use Wire Wrap Tool/Unwrap Tool	-						2b	-	-	-
6.2.4. Modular Crimp Tool										
6.2.4.1. Modular Crimp Tool Fundamentals	-						A	-	-	-
6.2.4.2. Use Modular Crimp Tool	-						2b	-	-	-
6.2.5. Single Pin Crimp Tool										
6.2.5.1. Single Pin Crimp Tool Fundamentals	-						A	-	-	-
6.2.5.2. Use Single Pin Crimp Tool	-						2b	-	-	-
6.2.6. Fusion Splicer	-						A	-	-	-
6.2.7. Pin Extractor/Insertion										
6.2.7.1. Pin Extractor/Insertion Fundamentals	-						A	-	-	-

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		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
6.2.7.2. Use Pin Extractor/Insertion	-						2b	-	-	-
6.2.8. Splice Tool (Copper)	-						-	-	-	-
6.2.9. Fiber Hot Melt Kit	-						-	-	-	-
6.2.10. Fiber Mechanical Terminator Kit	-						-	-	-	-
6.2.11. Cable Butting Tool										
6.2.11.1. Cable Butting Tool Fundamentals	-						A	-	-	-
6.2.11.2. Use Cable Butting Tool	-						2b	-	-	-
6.2.12. Wire Stripper										
6.2.12.1 Wire Stripper Fundamentals	-						A	-	-	-
6.2.12.2. Use Wire Stripper	-						2b	-	-	-
6.2.13. Spudger	-						A	-	-	-
6.2.14. Electrician Scissors										
6.2.14.1. Electrician Scissors Fundamentals	-						A	-	-	-
6.2.14.2. Use Electrician Scissors	-						2b	-	-	-
6.2.15. Diagonal Cutter	-						A	-	-	-
6.3. Standard Maintenance Concepts TR: AFI 32-1065; MIL-STD 2000A, American Public Works Association Policy and American National St; MPTOs 00-25-234-WA-1, 31-10-7-WA-1, 31-10-11-WA-1, 31-10-13, 31-10-24-WA-1, 31-1-141-1-WA-1, and 31W3-10-20; MIL-STD-1678-1 W/Change 1										
6.3.1. Standards										
6.3.1.1. Commercial (e.g. IEEE, EIA, NIST)	-						-	-	-	-
6.3.1.2. Military	-						-	-	-	-
6.3.1.3. International (e.g. ITU, ISO (7498-4), CEPT, ETSI)	-						-	-	-	-
6.3.2. Grounding										
6.3.2.1. Grounding Fundamentals	-						B	B		
6.3.2.2. Verify Proper Grounding (i.e. Equipment/Rack)	5						2b	-	-	-
6.3.3. Bonding	-						A	A	-	-
6.3.4. Shielding	-						-	A	-	-
6.3.5. Lightning Protection	-						A	A	-	-
6.3.6. Record Keeping (i.e. Master Station Log)	-						A	A	-	-
6.3.7. Circuit/Cable ID and Marking	5						A	A	-	-
6.3.8. Color Coding (e.g. 25 pair color code)	5						A	B	-	-
6.3.9. Physical Medium Standards (e.g. RS232/RS530)	-						A	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. CORE & WARTIME TASKS	3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED			
		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
6.3.10. Inventory/Accountability										
6.3.10.1. Inventory/Accountability Fundamentals	-						A	-	-	-
6.3.10.2. Perform Inventories	-						2b	-	-	-
6.3.11. Electrostatic Discharge (ESD) TR: AFQTP3DXXX-202A Electrostatic Discharge Handbook										
6.3.11.1. Fundamentals	5						A	A	-	-
6.3.11.2. Concepts	5						-	A	-	-
6.3.11.3. Handling, Packaging, and Storing	5						-	-	-	-
6.3.12. Inspections (PMI)	7						A	A	-	-
6.3.13. Reporting	-						A	-	-	-
6.3.14. Troubleshooting										
6.3.14.1. Troubleshooting Fundamentals	-						A	-	-	-
6.3.14.2. Troubleshoot Network Equipment (IP Data, Voice, Video, Multiplexing, i.e.)	-						2b	-	-	-
6.3.15. Explain Land Line Concepts	-						A	-	-	-
6.3.16. Authorized Service Interruptions (ASIs)	-						A	-	-	-
6.4. Installation										
6.4.1. Installation Standards	5						A	A	-	-
6.4.2. Cable/Fiber Installation										
6.4.2.1. Cable/Fiber Installation Fundamentals	5						A	A	-	-
6.4.2.2. Cable Management	5						A	A	-	-
6.4.2.3. Demonstrate Proper Cable Management Practices	-						2b	-	-	-
6.4.3. Copper Cable termination										
6.4.3.1. Copper Cable termination Fundamentals	-						A	-	-	-
6.4.3.2. Terminate Copper Cable	-						2b	-	-	-
6.4.4. Fiber termination	-						A	-	-	-
6.4.5. Equipment	-						A	-	-	-
6.4.6. Configuration	-						-	A	-	-
6.4.7. Interconnection	5						-	B	-	-
6.5. Downward Directed Orders										
6.5.1. Time Compliance Technical Order (TCTOs)	-						A	-	-	-

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		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
6.5.2. Time Compliance Network Order (TCNOs)	-						A	-	-	-
6.5.3. Notice To Airman (NOTAMs)	-						A	-	-	-
7. IP NETWORKING TR: EIA/TIA 568A/B; MIL STD 208-154A										
7.1. Internetworking Basics										
7.1.1. Internetworking Basics Fundamentals	-						A	-	-	-
7.1.2. OSI Reference Model	-						A	B	-	-
7.1.3. Topologies	-						A	B	-	-
7.1.4. Addressing										
7.1.4.1. IPv4/IPv6 Addressing										
7.1.4.1.1. IPv4/IPv6 Addressing Fundamentals	-						A	B	-	-
7.1.4.1.2. Develop/Apply IP Addressing Schema	-						2b	-	-	-
7.1.5. Fundamentals of Protocols	-						A	B	-	-
7.2. Network Types										
7.2.1. Internet Protocols	-						A	B	-	-
7.2.2. TCP/IP	-						A	B	-	-
7.2.3. UDP	-						-	-	-	-
7.2.4. LAN Technologies										
7.2.4.1. Switching										
7.2.4.1.1. Switching Concepts	-						B	B	-	-
7.2.4.1.2. Configure Switches	-						2b	B	-	-
7.2.4.2. Switching Protocols/Standards	-						B	-	-	-
7.2.4.3. CSMA/CD	-						A	-	-	-
7.2.4.4. VLANs										
7.2.4.4.1. VLANs Fundamentals	-						B	B	-	-
7.2.4.4.2. Configure VLANs	-						2b	B	-	-
7.2.4.5. Spanning-tree Protocol										
7.2.4.5.1. Spanning-tree Protocol Fundamentals	-						A	-	-	-
7.2.4.5.2. Configure Spanning-tree Protocol	-						2b	-	-	-
7.2.4.6. IEEE 802.3	-						A	-	-	-
7.2.4.7. IEEE 802.1/IEEE 802.2	-						A	-	-	-
7.2.5. WLAN (Wireless)										
7.2.5.1. Wireless Fundamentals	-						A	-	-	-

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		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
7.2.5.2. Wireless Protocols/Standards	-						A	-	-	-
7.2.5.3. IEEE 802.11	-						A	-	-	-
7.2.5.4. Wireless Access Points										
7.2.5.4.1. Wireless Access Points Fundamentals	-						A	B	-	-
7.2.5.4.2. Configure Wireless Access Points	-						2b	B	-	-
7.2.6. WAN Technologies										
7.2.6.1. WAN Fundamentals	-						A	-	-	-
7.2.6.2. Routing										
7.2.6.2.1. Routing Fundamentals	-						A	B	-	-
7.2.6.2.2. Configure Routers	-						2b	B	-	-
7.2.6.3. Bridge Virtual Interface (BVI)										
7.2.6.3.1. BVI Fundamentals	-						A	-	-	-
7.2.6.3.2. Configure BVI	-						2b	-	-	-
7.2.6.4. DTE/DCE	-						A	B	-	-
7.2.6.5. Routing Protocols										
7.2.6.5.1. Routing Protocol Concepts	-						A	B	-	-
7.2.6.5.2. Configure Routing Protocols in a Network	-						2b	B	-	-
7.2.6.6. VPN Concentrators	-						A	B	-	-
7.2.7. Unified Communications										
7.2.7.1. SIP/H.323	-						A	-	-	-
7.2.7.2. Voice/Video Compression Standards	-						-	A	-	-
7.2.7.3. Quality of Service (QoS)										
7.2.7.3.1. QoS Fundamentals	-						A	-	-	-
7.2.7.3.2. Differentiated Services Code Point (DSCP)										
7.2.7.3.2.1. DSCP Fundamentals	-						A	-	-	-
7.2.7.3.2.2. Configure QoS	-						2b	-	-	-
7.2.7.4 Redundancy										
7.2.7.4.1. Redundancy Fundamentals	-						A	B	-	-
7.2.7.4.2. Ether-Channels										
7.2.7.4.2.1 Ether-Channel Fundamentals	-						A	B	-	-
7.2.7.4.2.2. Configure Ether-Channels	-						2b	B	-	-

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		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
7.2.8. IP Network Monitoring										
7.2.8.1. SNMP	-						A	B	-	-
7.2.8.2. Implement IP Network Monitoring	-						2b	-	-	-
7.2.9. IP Network Security										
7.2.9.1. Network Equipment Logical Security										
7.2.9.1.1. Network Equipment Logical Security Concepts	-						A	B	-	-
7.2.9.1.2. Configure Logical Security for Network Equipment	-						2b	B	-	-
7.2.9.2. Network Equipment Physical Security	-						A	B	-	-
8. VOICE COMMUNICATIONS TR: Applicable Commercial Manuals										
8.1. Telephony										
8.1.1. Fundamentals of Telephony	5						A	B	-	-
8.1.2. Fundamentals of Sound	-						A	-	-	-
8.1.3. Frequencies	-						A	-	-	-
8.1.4. Amplitude	-						A	-	-	-
8.1.5. Transmission of Sound										
8.1.5.1. Transmission of Sound Fundamentals	-						-	-	-	-
8.1.5.2. Tip and Ring	-						A	-	-	-
8.1.5.3. Trunking										
8.1.5.3.1. Trunking Concepts	-						A	-	-	-
8.1.5.3.2. Configure Trunks	-						2b	-	-	-
8.1.6. Telephone Types										
8.1.6.1. POTS	-						A	-	-	-
8.1.6.2. Digital	-						A	-	-	-
8.1.6.3. ISDN	-						A	B	-	-
8.1.7. Telephony Switching										
8.1.7.1. Telephony Switching Concepts	-						A	B	-	-
8.1.7.2. Switch Security	5						-	A	-	-
8.1.7.3. Call Routing										
8.1.7.3.1. Call Routing Fundamentals	-						A	-	-	-
8.1.7.3.2. Configure Call routing	-						2b	-	-	-

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		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
8.1.7.4. DTR	-						A	-	-	-
8.1.7.5. Customer Groups	-						A	-	-	-
8.1.7.6. MLPP	-						A	-	-	-
8.1.7.7. Class of Service	-						A	-	-	-
8.1.7.8. DSN	-						A	-	-	-
8.1.7.9. Translations	-						A	-	-	-
8.1.8. Program Telephony Features	-						2b	-	-	-
8.1.9. 911/E-911	-						A	-	-	-
8.1.10. Direct Inward Dialing (DID)	-						A	-	-	-
8.1.11. Caller-ID	-						A	-	-	-
8.1.12. Video Teleconferencing (VTC)	-						A	-	-	-
8.1.13. Voice over IP/Voice over Secure IP (VoIP/VoSIP)										
8.1.13.1. VoIP/VoSIP Fundamentals	-						A	-	-	-
8.1.13.2. Configure Voice Over IP	-						2b	-	-	-
8.1.14. Private Base Exchange (PBX)	-						A	A	-	-
8.1.15. Secure Voice Networks										
8.1.15.1. Establish Secure Voice Network	-						2b	-	-	-
8.1.15.2. Secure Terminal Equipment	-						-	-	-	-
9. VISUAL INFORMATION AND INTRUSION DETECTION SYSTEMS (VIIDS) TR: Applicable Equipment Manuals										
9.1. Video										
9.1.1. Fundamentals of Video Systems										
9.1.1.1. Media Formats	-						A	-	-	-
9.1.1.2. Analog Video	-						A	A	-	-
9.1.1.3. Digital Video	-						A	A	-	-
9.1.1.4. Analog Audio	-						A	-	-	-
9.1.1.5. Digital Audio	-						A	A	-	-
9.1.1.6. Video Editor Systems	-						-	-	-	-
9.1.1.7. Video Cameras										
9.1.1.7.1. Camera Types	-						A	-	-	-
9.1.1.7.2. Camera Functions	-						A	-	-	-

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		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
9.1.2. Video Distribution and Display Systems										
9.1.2.1. Fundamentals of Operation										
9.1.2.1.1. Video Switcher Devices	-						A	A	-	-
9.1.2.1.2. Video Routing Devices	-						A	A	-	-
9.1.2.1.3. Video Distribution Amplifiers	-						A	A	-	-
9.1.2.1.4. Video Display Units	-						A	A	-	-
9.1.2.1.5. TVRO Concepts	-						A	-	-	-
9.1.2.1.6. Satellite Uplink/Downlink	-						-	-	-	-
9.1.3. Digital Video Storage										
9.1.3.1. Capabilities and Limitations	-						A	-	-	-
9.2. Intrusion Detection Systems (IDS) TR: AFJQS 3D1X2-204DF; Applicable Equipment Manuals										
9.2.1. IDS Fundamentals	-						A	-	-	-
9.2.2. IDS Equipment										
9.2.2.1. Installation Security Systems	-						A	A	-	-
9.2.2.2. Exterior Sensors	-						A	A	-	-
9.2.2.3. Interior Sensors	-						A	A	-	-
9.2.2.4. Annunciators	-						A	A	-	-
10. DISTRIBUTION TR: DISAC 310-70-1; TOs 31-1-201 series, 31Z-10-20										
10.1. Modulation										
10.1.1. Modulation Fundamentals	-						-	A	-	-
10.1.2. Amplitude Modulation (AM)	-						-	A	-	-
10.1.3. Frequency Modulation (FM)	-						-	A	-	-
10.1.4. Phase Modulation	-						-	A	-	-
10.1.5. PSK	-						-	A	-	-
10.1.6. QAM	-						-	-	-	-
10.1.7. FSK	-						-	-	-	-
10.1.8. PCM	-						-	A	-	-
10.2. Multiplexing										
10.2.1. Multiplexing Fundamentals	-						A	A	-	-
10.2.2. Configure a Multiplexer	-						2b	-	-	-

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		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
10.2.3. Timing										
10.2.3.1. GPS	-						A	B	-	-
10.2.3.2. Atomic Clock	-						A	B	-	-
10.2.3.3. Crystal Oscillator	-						A	B	-	-
10.2.3.4. Stratum Levels	-						A	B	-	-
10.2.3.5. Configure Timing	-						2b	-	-	-
10.2.4. Cell/Packet Based Multiplexing (ATM/Frame Relay)	-						A	-	-	-
10.2.5. Frequency Division Multiplexing (FDM)	-						A	-	-	-
10.2.6. TDM (Time Division Multiplexing)	-						A	-	-	-
10.2.7. Wave Division (WDM) Multiplexing	-						-	-	-	-
10.2.8. Signaling TR: MIL-STD 208-154; TO 31-1-201-3										
10.2.8.1. Analog	-						A	B	-	-
10.2.8.2. Digital	-						A	B	-	-
10.2.8.3. Synchronous	-						A	A	-	-
10.2.8.4. Asynchronous	-						A	A	-	-
10.2.8.5. Framing										
10.2.8.5.1. Super Frame (SF)	-						A	-	-	-
10.2.8.5.2. Extended Super Frame (ESF)										
10.2.8.5.2.1. ESF Concepts	-						A	-	-	-
10.2.8.5.2.2. Utilize ESF	-						2b	-	-	-
10.2.8.6. Line Coding										
10.2.8.6.1. B8ZS										
10.2.8.6.1.1. B8ZS Fundamentals	-						A	B	-	-
10.2.8.6.1.2. Utilize B8ZS	-						2b	-	-	-
10.2.8.6.2. AMI	-						A	B	-	-
10.2.9. Companding										
10.2.9.1. Define Companding	-						A	-	-	-
10.2.9.2. A-law	-						A	-	-	-
10.2.9.3. U-law	-						A	-	-	-
10.2.10. Trunking										
10.2.10.1. Trunking Concepts	-						-	-	-	-
10.2.10.2. Bandwidth	-						A	A	-	-
10.2.10.3. DS0s	-						A	-	-	-

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		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
10.2.10.4. T-Carrier	-						A	-	-	-
10.2.10.5. O-Carrier	-						A	-	-	-
10.3. Copper Distribution										
10.3.1. Copper Distribution Fundamentals	-						A	B	-	-
10.3.2. Horizontal/Vertical/66 Block/110 Block	-						A	-	-	-
10.4. Fiber Distribution										
10.4.1. Fiber Distribution Fundamentals	-						A	B	-	-
10.4.2. Fiber Patching	-						2b	-		
10.4.3. Describe the Principles of Light Wave Communications	-						-	-	-	-
10.4.4. Describe the Principles of Fiber Optic Modem Operation	-						-	-	-	-
10.4.5. Describe the Principles of Fiber Optic Multiplexer Operation	-						-	-	-	-
10.4.6. Describe the Types and Applications of Fiber Optic Connectors	-						-	-	-	-
10.4.7. Describe the Principles of Single Mode Fiber Optic Cable	-						-	-	-	-
10.4.8. Describe the Principles of Multimode Fiber Optic Cable	-						-	-	-	-
10.5. Long-haul Communications										
10.5.1. Patching										
10.5.1.1. Patching Concepts	-						A	-	-	-
10.5.1.2. Perform Patching	-						2b	-	-	-
10.5.2. Cyber Transport Systems Role in Global Information Grid (GIG)	-						A	-	-	-
11. NETWORK MANAGEMENT TR: AFI 63-101; 33-115 Vol 1; Applicable DISAC 300 and 310 series										
11.1. IT Documentation										
11.1.1 Fundamentals of IT Documentation	-						A	B	-	-
11.1.2. Perform IT Documentation	-						2b	B	-	-
11.1.3. CIPS	-						A	-	-	-
11.2. Configuration Management										

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. CORE & WARTIME TASKS	3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED			
		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
11.2.1. Configuration Management Concepts (i.e. Documentation, Configuration Change Management, Equipment Configurations, etc.)	-						A	-	-	-
11.2.2. Contingency Plans (e.g. Backup, Restoral, Recovery)										
11.2.2.1. Develop	7						-	-	-	-
11.2.2.2. Implement	5						-	-	-	-
11.2.3. Communication Requirements Process	5						A	-	-	-
11.2.4. Security Technical Implementation Guides (STIGs)	5						A	-	-	-
11.2.5. Gateway Access Request/Gateway Access Authorization (GAR/GAA)	-						A	-	-	-
11.3. Circuit Actions										
11.3.1. Circuit Action Responsibilities	-						A	A	-	-
11.3.2. Node Site Coordinator	-						A	A	-	-
11.3.3. Authorized Service Interruptions (ASI) TR: DISAC 310-70-1, AFI 33-138, AFI 10-701	7						-	-	-	-
11.3.4. Hazardous Conditions (HAZCON) TR: DISAC 310-70-1, AFI 33-138, AFI 10-701	7						-	-	-	-
11.3.5. Completion Reports										
11.3.5.1. Ineffective Report	-						A	A	-	-
11.3.5.2. Delayed Service Report	-						A	A	-	-
11.3.5.3. Acceptance Report	-						A	A	-	-
11.3.5.4. Exception Report	-						-	A	-	-
11.3.6. Defense Information Systems Agency (DISA)	-						A	-	-	-
11.3.7. DISA Coordination	-						-	-	-	-
11.3.8. DISA Circulars	-						A	-	-	-
11.3.9. Circuit History Folders	-						A	-	-	-
11.3.10. Procurement/Change Requests TR: DISAC 310-70-1										
11.3.10.1. Circuit										
11.3.10.1.1. Procurement/Change Process	-						A	-	-	-
11.3.10.1.2. Telecommunications Service Requests (TSRs)	-						A	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. CORE & WARTIME TASKS	3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED			
		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
11.3.10.1.3. Telecommunications Service Order (TSOs)	-						A	A	-	-
11.3.11. Telecommunications Service Priority (TSPs)	-						A	A	-	-
11.3.12. Command Communication Service Designator (CCSDs)	-						A	A	-	-
11.3.13. Maintenance Tracking Software										
11.3.13.1. Maintenance Tracking Software Fundamentals (i.e. FACIT, TCOSS, Remedy)	-						A	-	-	-
11.3.13.2. Use Tracking Software (i.e. FACIT, TCOSS, Remedy)	-						2b	-	-	-
11.3.14. Communications Network Trend Analysis										
11.3.14.1. Identify	-						-	B	-	-
11.3.14.2. Analyze	-						-	B	-	-
11.3.15. Service Level Agreements (SLAs)	-						A	A	-	-
11.3.16. PSA	-						-	A	-	-
12. INFORMATION PROTECTION OPERATIONS TR: ACP 122; AFH 31-602; AFIs, 10-701, 33-102, 33-115 Vols 1, 2, & 3, 33-202, 33-203, 33-204, 33-207, 33-332; AAFP 31-2; AFTTP 3-1.36 (S) Classified										
12.1. Information Protection Principles	-						A	A	-	-
12.2. Rules of Engagement	-						A	-	-	-
12.3. Assessment and Authorization	-						A	-	-	-
12.4. Event Response	-						A	-	-	-
12.5. Security Patch Implementation	-						-	-	-	-
12.6. Malicious Logic Protection	-						A	-	-	-
12.7. Defense in Depth TR: AFDD 2-5; AFTTP 3-1.36(S)(Classified) CJCSM 6510.01 (enclosure B)										
12.7.1. Concept	5						A	-	-	-
12.7.2. Steps	-						A	-	-	-
12.8. Information Assurance/Defense Cyber Operation (IA/DCO)										
12.8.1. Boundary Protection										
12.8.1.1. Principles	-						A	B	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. CORE & WARTIME TASKS	3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED			
		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
12.8.1.2. IP Firewalls	-						A	B	-	-
12.8.2. Intrusion Detection	-						A	B	-	-
12.8.3. Misuse Detection	-						A	B	-	-
12.8.4. Internal Control	-						A	B	-	-
12.8.5. Access Prevention	-						A	B	-	-
12.8.6. Authentication	-						A	B	-	-
12.8.7. Encryption	-						A	B	-	-
12.8.8. Network Vulnerabilities/Mitigation	-						A	B	-	-
12.9. Voice Protection System (VPS)	-						A	B	-	-
12.10. COMmunications SEcURITY (COMSEC) TR: AFSSI 3017 (KIV-7), AFSSI 3013, AFSSI 3035 (TACLANE)										
12.10.1. COMSEC Principals	5						B	-	-	-
12.10.2. Red/Back	5						A	B	-	-
12.10.3. Perform COMSEC Inventory	-						2b	-	-	-
12.10.4. Over the Air Rekey (OTAR)	-						2b	-	-	-
12.10.5. Perform Key Transfer Using Common Fill Device	-						2b	-	-	-
12.10.6. EMSEC Suppression Techniques	-						-	B	-	-
13. CRITICAL COMMUNICATIONS FACILITIES POWER SYSTEMS TR: Applicable Equipment Manuals										
13.1. Uninterrupted Power Supplies (UPS)	5						A	A	-	-
13.2. Facility Battery Backups	-						A	A	-	-
13.3. Rectifiers	-						A	-	-	-
13.4. Inverters	-						A	-	-	-
13.5. Generators	-						A	A	-	-
14. ENCRYPTION/DECRYPTION TR: Applicable Equipment Manuals										
14.1. Crypto Devices										
14.1.1. Describe Crypto Devices	-						A	-	-	-
14.1.2. Configure/Use Serial Crypto Equipment	-						2b	-	-	-
14.1.3. Configure/Use IP Crypto Equipment	-						2b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. CORE & WARTIME TASKS	3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED			
		A	B	C	D	E	3 SKILL LEVEL	5 SKILL LEVEL	7 SKILL LEVEL	9 SKILL LEVEL
		START DATE	STOP DATE	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	Course	CDC	OJT	OJT
14.2. Fundamentals	-						A	-	-	-
14.3. Secure a Wireless Access Point	-						2b	-	-	-
14.4. Crypto Keys										
14.4.1. Pre-Placed Key (PPK)	-						A	-	-	-
14.4.2. Firefly Vector Set (FFVS)	-						A	-	-	-
15. EXPEDITIONARY COMMUNICATIONS CONCEPTS TR: Applicable Equipment Manuals										
15.1. Establish IP Network										
15.1.1. Secure	-						2b	-	-	-
15.1.2. Non-Secure	-						2b	-	-	-
15.2. Establish Voice Network										
15.2.1. Secure	-						2b	-	-	-
15.2.2. Non-Secure	-						2b	-	-	-
15.3. Establish Long Haul Network	-						2b	-	-	-
16. AIR FORCE JOB QUALIFICATION STANDARDS APPLICABLE TO 3DXXX AFSCs TR: AFIS 33-150, 33-154; MPTO 00-33A-1001; CFETP 3D1X2										
16.1. AFJQS3DXXX-200TBA Training Business Area (TBA) Handbook	5						-	-	-	-

Section B - Course Objective List

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

5. Standard. The standard is 70% on written examinations. Standards for performance measurement are indicated in the objective and delineated on the individual progress checklist. Instructor assistance is provided as needed during the progress check and students may be required to repeat all or part of the behavior until satisfactory performance is attained.

6. Proficiency Level. Most task performance is taught to the “2b” proficiency level which means the student can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step by step procedures for doing the task.

Section C - Support Materials

7. The following list of support materials is not all-inclusive; however, it covers the most frequently referenced areas. The most current products can be found at the 81 TRSS/TSQ webpage and are available for download from the web site at https://cs3.eis.af.mil/sites/20946/AFKN_Docs/Forms/AllItems.aspx. Procedures for requesting product development are found in AFI 33-154.

Generic AFJQSs/AFQTPs applicable to **AFSC 3D1X2:**

<u>Publication No.</u>	<u>Pseudo File</u>	<u>Publication Title</u>
AFJQS3D1X2-200CH	N/A	Infrastructure Technician
AFJQS3D1X2-200H	N/A	Theater Deployable Communications Infrastructure
AFJQS3D1X2-201B	N/A	Promina 800, 400 and 200 Multiservice Access Platform
AFJQS3D1X2-201TB	N/A	Modular Control Equipment
AFJQS3D1X2-204DF	N/A	BISS Familiarization
AFJQS3D1X2-204DG	N/A	AN/GSS-37(V) Restricted Area Anti-Intrusion Alarm Set
AFJQS3D1X2-204DK	N/A	AN/GGS-42 Exterior Intrusion Detection System
AFJQS3D1X2-204DL	N/A	AN/GSS-39(V) Interior Intrusion Detection Systems (IIDS)
AFJQS3D1X2-204DM	N/A	Weapons Storage Area Switch
AFJQS3D1X2-204Z	N/A	SFC-36 TV Production System
AFJQS3D1X2-207RA	N/A	DMS 100/200 Digital Switch Translations
AFJQS3D1X2-207RC	N/A	DMS/MSL 100/200 Traffic Analysis
AFJQS3D1X2-208R	N/A	DMS/MSL Digital Telephone Switching Systems
AFJQS3D1X2-208ZA	N/A	Strategic Automated Command and Control System (SACCS)
AFJQS3D1X2-210K	N/A	6KNZC: C-E Crypto/Computer Systems Support
AFJQS3D1X2-210X	N/A	DE-3/DE-4 Channel Bank Maintenance

<u>Publication No.</u>	<u>Pseudo File</u>	<u>Publication Title</u>
AFJQS3D1X2-211K	N/A	Avaya Definity G3 (Multi-Vantage)

Generic AFJQSs/AFQTPs applicable to **3D1XX AFSCs:**

<u>Publication No.</u>	<u>Pseudo File</u>	<u>Publication Title</u>
AFJQS3D1XX-200F	N/A	Engineering Installation (EI) Team Chief
AFJQS3D1XX-201C	N/A	Corrosion Prevention and Control
AFJQS3D1XX-201EA	N/A	Core Automated Maintenance System with GUI
AFJQS3D1XX-201P	N/A	Work Center Test Equipment Management
AFJQS3D1XX-201X	N/A	Engineering Installation (EI) Quality Assurance
AFJQS3D1XX-204V	N/A	AN/FCC-100(V)7 & 9 Multiplexer Set
AFJQS3D1XX-205Q	N/A	AN/GRT-21/22 VHF/UHF Transmitter
AFJQS3D1XX-205R	N/A	AN/GRR-23/24, VHF/UHF Receiver
AFJQS3D1XX-205SA	N/A	AN/GRC-171(V1, AV1) UHF Transceiver and AN/GRC-211 VHF Transceiver
AFJQS3D1XX-206TA	N/A	OK-423/G Control Monitor Group
AFJQS3D1XX-206TB	N/A	CU-547/GR Antenna Coupler
AFJQS3D1XX-207X	N/A	AN/TRC-187A Time Signal Set
AFJQS3D1XX- 210AB	N/A	Scope Shield II Maintenance
AFJQS3D1XX-210W	N/A	Personal Wireless Communications Systems
AFJQS3D1XX-211D	N/A	Air Force Tactical Receive System
AFJQS3D1XX-218A	N/A	Predator Ground Communications
AFQTP3D1XX-200S	N/A	Basic/Advanced Soldering

Generic AFJQSs/AFQTPs applicable to **3DXXX AFSCs:**

<u>Publication No.</u>	<u>Pseudo File</u>	<u>Publication Title</u>
AFJQS3DXXX- 200EC	N/A	AN/GSQ-272 Distributed Common Ground Systems Data Links
AFJQS3DXXX-200N	N/A	DoD 8570 IA Workforce Improvement Program
AFJQS3DXXX-201F	N/A	Communications Focal Point
AFJQS3DXXX-201G	N/A	Quality Assurance
AFJQS3DXXX- 201TC	N/A	JTIDS Module
AFJQS3DXXX-208N	N/A	Battle Control System-Fixed (BCS-F)
AFJQS3DXXX-212Z	N/A	Global Broadcast Service Ground Receive Suite
AFJQS3DXXX-213I	N/A	Military Construction Program
AFJQS3DXXX-213J	N/A	Second Generation Wireless Local Area Network
AFJQS3DXXX-230T	N/A	Remedy
AFQTP3DXXX-200D	N/A	Integrated Maintenance Data System (IMDS) Handbook
AFQTP3DXXX-202A	N/A	Electrostatic Discharge Handbook

AFQTP3DXXX-212C	N/A	Command, Control, Communications and Computer (C4) Information Systems Familiarization Handbook
AFQTP3DXXX-213R	N/A	Support Agreements and Administrative Contract Management

Section D - Training Course Index

8. Purpose. This section of the CFETP identifies training courses available for continuation/supplemental training. For information on all formal courses, refer to the Air Force Education and Training Course Announcements (ETCA) database, formerly AFCAT 36-2223, *USAF Formal Schools Catalog* at <https://etca.randolph.af.mil/>

9. Air Force In-Residence Courses.

<u>Course Number</u>	<u>Course Title</u>	<u>Location</u>
AF ISRA RJ GDPS	Ground Data Processing System Maintenance Course	Offutt AFB
DCGS-DGIF/GCP	Deployable Ground Intercept Facility/Ground Control Processor Maintenance	Beale AFB
E3ASP3D152 02CB	KG-47/47A/77 Depot Maintenance	Keesler AFB
E3ASP3D152 03GA	MYK-16 Depot Maintenance	Keesler AFB
E3ASP3D152 03OB	KOK-22/KOK-22A Depot Maintenance	Keesler AFB
E3ASP3D152 03QB	MYK-17 Depot Maintenance	Keesler AFB
E3AZR3D152 01AA	Network Management Infrastructure Associate	Keesler AFB
E3AZR3D152 01PA	Network Management Infrastructure Professional	Keesler AFB
E3AZR3D152 02AA	Modular Control Equipment (MCE) Organizational Maintenance	Keesler AFB
E6AZL3D152 02AA	Global Broadcast Service Systems	Mobile Training
E6AZS3D152 01AA	TSEC/KG-30 Series, Limited Maintenance (STP)	On Site
E6AZS3D152 01BA	TSEC/KG-81, Limited Maintenance (STP)	On Site
E6AZS3D152 01CA	TSEC/KG-84Series, Limited Maintenance (STP)	On Site
E6AZS3D152 01DA	TSEC/KI-1 Series, Limited Maintenance (STP)	On Site
E6AZS3D152 01EA	TSEC/KY-57/58, Limited Maintenance (STP)	On Site
E6AZS3D152 01HA	TSEC/KG-94/94A/194/194A, Limited Maintenance (STP)	On Site
E6AZS3D152 01IA	TSEC/KGV-8/11 Series/ST-61, DEPOT Maintenance (STP)	On Site
E6AZS3D152 01KA	TSEC/CI-10, Limited Maintenance (STP)	On Site
E6AZS3D152 01LA	TSEC/KY-68/78, Limited Maintenance (STP)	On Site
E6AZS3D152 01MA	(STP) COMSEC Awareness	On Site
E6AZS3D152 01PA	TSEC/KG-83, Operational Certification Training (STP)	On Site
E6AZS3D152 01QA	TSEC/KY-90, Limited Maintenance (STP)	On Site
E6AZS3D152 01RA	TRI-TAC COMSEC Equipment, Limited Maintenance (STP)	On Site
E6AZS3D152 01SA	TSEC/KG-95 Series, DEPOT Maintenance (STP)	On Site
E6AZS3D152 01VA	TSEC/KG-40A, Limited Maintenance (STP)	On Site
E6AZS3D152 01WA	TSEC/KY-99, Limited Maintenance (STP)	On Site
E6AZS3D152 03RA	TSEC/KG-30 Series, DEPOT Maintenance (STP)	On Site
E7AST3D152 02AA	Global Broadcast Service Systems	Keesler AFB
J3AZR3D152 0A5A	AS5300 Configuration, Maintenance, and Administration	Sheppard AFB
J3AZR3D152 0C5A	Cisco Call Manager with Voice over Internet Protocol	Sheppard AFB
J3AZR3D152 0E5A	AVAYA Voice Network Switching	Sheppard AFB
J3AZR3D152 0M5A	Meridian 1 Option 61C	Sheppard AFB
J3AZR3D152 0N5A	Telephony Installation and Maintenance Techniques	Sheppard AFB
J3AZR3D152 0S5A	Digital Voice Switching	Sheppard AFB
J3AZR3D152 0T5A	Telecommunications Management System (TMS)	Sheppard AFB
J3AZR3D152 0Z5B	Voice Translations	Sheppard AFB

J4AMP3D1X2 A48A	Theater Deployable Communications Cyber Transport Systems / Infrastructure	Robins AFB or Savannah ARB
J4AMP3D1X2 B48A	Theater Deployable Communications Cyber Transport Systems / Voice	Robins AFB or Savannah ARB

10. Air University Courses.

For a current listing of Air University courses go to <http://www.au.af.mil/au/afiadl>.

11. Exportable Courses.

For a current list of the available CBT courses refer to <https://www.my.af.mil/faf/FAF/fafHome.jsp>, (Under AF e-Learning).

Section E - MAJCOM Unique Requirements

12. There are currently no MAJCOM unique training requirements. This area is reserved.