

Military Branch: Air Force

Military Occupation: CYBER SYSTEMS OPERATIONS

Military Code: AFSC 3D0X2

Training Levels: All Air Force occupations have up to 5 different training levels: Helper, Apprentice, Journeyman, Craftsman and Superintendent.

Below are training levels with Occupation codes:

AFSC 3D072, Craftsman

AFSC 3D032, Apprentice

AFSC 3D052, Journeyman

AFSC 3D012, Helper

Go To: [Occupation Details](#)

[Civilian Competencies](#)

(Changed 31 Oct 13, Effective 28 Feb 13)

1. Specialty Summary. Installs, supports and maintains servers or other computer systems and plans for responding to service outages and interruptions to network operations. Administers server-based networked systems, distributed applications, network storage, messaging, and application monitoring required to provision, sustain, operate and integrate cyber networked systems and applications in garrison and at deployed locations. Core competencies include: server operating systems, database administration, web technologies, systems-related project management and supervising computer operators as well as consultant for computer-based problems beyond the knowledge of Client Systems technicians. Supports identification, reconnaissance and exploitation of vulnerabilities while enhancing capabilities within cyber environments to achieve desired affects. Related DoD Occupational Subgroup: 153100.

2. Duties and Responsibilities:

2.2. Provides core services by designing, configuring, installing, and managing data services at the operating system and server application level. Provides directory services utilizing dynamically-assigned IP addresses, domain name server, storage area network, and electronic messaging resources. Manages secure authentication methods utilizing public key infrastructure (PKI) technologies and procedures. Standardizes user privileges and system settings using automated deployment tools such as group policy objects (GPO) system management server. Implements security fixes, operating system patches, and antivirus software. Develops, tests, and implements local restoral and contingency operations plans.



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Processes and reviews C4 systems requirement documentation, telecommunication service requests, status of acquisition messages, and telecommunication service orders. Performs strategic and budget planning for networks.

2.3. Performs system resource management, manages system accounts, performs system-wide backups and data recovery, and load and capacity planning and management. Administers: classified and unclassified message traffic via electronic mail systems, database operations, implements conversions, and investigates problems in database environment. Ensures continuing systems operability by providing ongoing optimization and problem solving support. Applies computer security policies to safeguard systems and information. Categorizes, isolates, and resolves system problems. Performs fault isolation by validating, isolating, correcting faults, and verifying service restoral with customers. Processes, documents and coordinates resolution of trouble calls from lower support echelons. Processes scheduled and authorized outages. Submits outage reports in response to unscheduled outages.

2.4. Implements security updates and patches to include: Information Assurance Vulnerability Assessments (IAVA), C4 Notice to Airman (C4 NOTAM), Time Compliance Network Orders (TCNO), Combat Information Transport System (CITS), Time Compliance Technical Order (TCTO), operating system patches, and antivirus software. Implements and enforces national, DoD, and Air Force security policies and directives. Performs proactive security functions to deter, detect, isolate, contain, and recover from information system and network security intrusions. Performs system sanitation resulting from Classified Message Incidents (CMIs).

2.5. Performs and supports information warfare operations within strictly controlled parameters and provides real-time intrusion detection and firewall protection for all IT resources. Researches latest system threats to develop and test tactics, techniques and procedures (TTPs) for both defensive and offensive information operations. Employs developed TTPs on Air Force and DoD computer networks to exploit enemy information systems and defend against hostile information operations. Identifies, analyzes, targets, and exploits adversary's network operations and systems within specifically defined guidelines and rules of engagement. Analyzes risks and/or vulnerabilities and takes corrective action to mitigate or remove them.

2.6. Reviews and implements C4 systems requirements. Performs strategic and budget planning for systems hardware and software. Coordinates and implements system service level agreements and memorandum of understanding with user agencies.

2.7. Manages, supervises, and performs planning and implementation activities. Manages implementation and project installation and ensures architecture, configuration, and integration



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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. AFECDC, 31 October 2013 191

3. Specialty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: Cyber systems elements; capabilities, functions, and technical methods for system operations.

3.2. Education. For entry into this specialty, completion of high school is mandatory. Additional courses in computer and information systems technology is desirable. Network+ certification or equivalent is desirable.

3.3. Training. For award of AFSC, completion of Cyber Systems Operations initial skills course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 3D052. Qualification in and possession of AFSC 3D032. Experience in functions such as system operations, micro- and multi-user technical support, system restoration, resource counting, or security.

3.4.2. 3D072. Qualification in and possession of AFSC 3D052. Experience supervising one of the following functions: analysis of system failure and restoration, C-CS operations, command and control systems support, system administration, and resource management.

3.5. Other. The following are mandatory as indicated:

3.5.1. See attachment 4 for additional entry requirements.

3.5.2. For award and retention of these AFSCs, must maintain an Air Force Network License according to AFI 33-115, Vol 2, *Licensing Network Users and Certifying Network Professionals*.

3.5.3. Specialty routinely requires work in the networking environment. For award and retention of AFSCs 3D032/3D052/3D072, must attain and maintain a minimum Information Assurance Technical Level II certification according to DoD 8570.01-M, *Information Assurance Workforce Improvement*



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Program. 3.5.4. Specialty requires routine access to Top Secret material or similar environment. For award and retention of AFSCs 3D032/52/72, completion of a current Single Scope Background Investigation (SSBI) according to AFI 31-501, *Personnel Security Program Management*, is mandatory.

NOTE: Award of the 3-skill level without a completed SSBI is authorized provided an interim Top Secret clearance has been granted according to AFI 31-501.

Materials included in these reports are from:

- The AIR FORCE ENLISTED CLASSIFICATION DIRECTORY (AFECD)-The Official Guide to the Air Force Enlisted Classification Codes- Published October 2013
- The Department of Labor's My Next Move pages and links.
- The USAF public web pages.



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