

AFSC 17D4*, Staff
AFSC 17D3*, Qualified
AFSC 17D2*, Intermediate
AFSC 17D1*, Entry

★NETWORK OPERATIONS
(★Changed 31 Oct 14)

★1. Specialty Summary. Operates cyberspace weapons systems, employs cyberspace capabilities, and commands crews to accomplish cyberspace, training, and other missions.

★2. Duties and Responsibilities:

- 2.1. Plans and prepares for mission. Reviews mission tasking, intelligence, terrain and weather information. Supervises mission planning, preparation and crew briefing/debriefing. Ensures equipment and crew are mission ready prior to execution/deployment.
- 2.2. Operates weapons system(s) and commands crew. Performs, supervises, or directs weapons system employment and associated crew activities.
- 2.3. Conducts or supervises training of crewmembers. Ensures operational readiness of crew by conducting or supervising mission specific training.
- 2.4. Translates operational requirements into architectural and technical solutions. Works with commanders to deliver complete capabilities that include technical and procedural components. Researches or oversees research of technologies and advises commanders on associated risks and mitigation factors in conjunction with meeting requirements.
- 2.5. Directs extension, employment, reconfiguration, adaptation and creation of portions of cyberspace to assure mission success for combatant commanders. This includes both deliberate and crisis action scenarios.
- 2.6. Develops plans and policies, monitors operations, and advises commanders. Assists commanders and performs staff functions related to this specialty.

★3. Specialty Qualifications:

- 3.1. Knowledge. Knowledge is mandatory including electronics theory, information technology, telecommunications and supervisory and control systems including cryptography, vulnerability assessment and exploitation techniques. Additionally knowledge will include operational planning, governing cyberspace operations directives, procedures and tactics.
- 3.2. Education. The vast majority of 17D officers will possess computer, science, mathematics, technical, analytical and/or problem solving skills developed in the degree programs identified in see [Appendix A, Paragraph 2, 17D CIP Education Matrix](#).
- 3.3. Training. The following training is mandatory as indicated:
 - 3.3.1. For award of AFSC 17D2X, completion of Undergraduate Cyberspace Training (UCT) and mission qualification training in suffix specific area.
 - 3.4. Experience. For upgrade to AFSCs 17D2X/3X, unit commander determines proficiency based on performance, experience and completion of minimum training requirements.
 - 3.5. For award and retention of 17DX, specialty requires routine access to Top Secret or similar environment and completion of a current Single Scoped Background Investigation (SSBI) according to AFI 31-501, *Personnel Security Program Management*.

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

★4. *Specialty Shredouts:

<i>Suffix</i>	<i>Portion of AFS to Which Related</i>
A.....	CDA – Cyberspace Defense Analysis
B.....	CSCS – Cyber Security and Control System
C.....	AFINC – Air Force Intranet Control
D.....	CVA/Hunt – Cyberspace Vulnerability Assessment/Hunter
E.....	C3MS – Cyber Command and Control Mission System
F.....	ACD- Air Force Cyberspace Defense
Y.....	General
Z.....	Other

★2. 17D – Network Operations - Education Matrix (Effective 31 Oct 14)

17D – Network Operations – Education Requirements

Tier	Target Accession Rate	CIP	Education Program Description	Requirement
1	≥65%	11.XXXX (Excluding 11.03XX and 11.06XX)	Computer and Information Sciences and Support Services or 14.09XX or 14.1201 or 14.3501 or 14.3501 or 14.10XX or 15.0303 or 15.1202 or 29.0207 or 30.08XX, or 30.16XX or 30.3001 or 52.12XX	Mandatory Management Information Systems
2	≤5%	27.0103, 27.0303, 27.0304	Mathematics	Mandatory
3	≤20%	14.XXXX (Excluding 14.0102)	Engineering or 15.03XX, 15.04XX, 15.08XX, 15.12XX, 15.14XX or 27.XXXX or 40.08XX or 40.05XX	Desired Engineering Technologies Mathematics and Statistics Physics Chemistry
4	≤10%	Any	Any Degree	Permitted