

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:**

*Suffix*

*Portion of AFS to Which Related*

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

<i>Tier</i>	<i>Target Accession Rate</i>	<i>CIP</i>	<i>Education Program Description</i>	<i>Requirement</i>
1	≥65%	11.XXXX (Excluding 11.03XX and 11.06XX)	Computer and Information Sciences and Support Services	Mandatory
			or	
		14.09XX	Computer Engineering	
			or	
		14.1201	Engineering Physics/Applied Physics	
			or	
		14.3501	Industrial Engineering	
			or	
		14.3501	Electromechanical Engineering	
			or	
		14.10XX	Electrical, Electronics and Communications	
			or	
		15.0303	Electrical, Electronic and Communications Engineering Technology/Technician	
			or	
		15.1202	Computer Technology/Computer Systems Technology	
			or	
		29.0207	Cyber/Electronics Operations and Warfare	
			or	
		30.08XX,	Mathematics and Computer Science	
			or	
		30.16XX	Accounting and Computer Science	
			or	
		30.3001	Computational Science	
			or	
		52.12XX	Management Information Systems	
2	≤5%	27.0103, 27.0303, 27.0304	Mathematics	Mandatory
3	≤20%	14.XXXX (Excluding 14.0102)	Engineering	Desired
			or	
		15.03XX, 15.04XX, 15.08XX, 15.12XX, 15.14XX	Engineering Technologies	
			or	
		27.XXXX	Mathematics and Statistics	
			or	
		40.08XX	Physics	
			or	
		40.05XX	Chemistry	
4	≤10%	Any	Any Degree	Permitted