

## **2021-2023 CORE SKILL REQUIREMENTS**

**Network Operations and Technology**

**Subspecialty: 6209**

**Curriculum: 386**

1. **Description of CSR Competencies.** The listed CSRs are a set of quantifiable skills, traits and experiences that a subspecialist must possess to perform acceptably in a coded billet for Network Operations and Technology/6209.

a. **CSR-1: Operate the network as an agile warfighting system. Develop, operate, defend, manage, maintain, or assess network systems and architectures at multiple security levels, to include the application of authorized and compliant cross-domain solutions to allow safe and effective portability of data between those security levels. Recommend and implement solutions to network problems relevant to military operations.**

b. **CSR-2: Make recommendations concerning military application of future information warfare capabilities to enhance operations and enhance efficiency of operational support functions. This includes making recommendations on tools and processes for predictive analysis of threats to the networks based on indications and warning to preemptively pace or achieve advantage over adversary actions. Determine requirements from local to enterprise level.**

c. **CSR-3: Assess the interoperability of hardware and software, and data to support acquisition processes and the economics of future network capabilities, and integration of new capabilities with legacy infrastructure. Develop systems engineering and acquisition principles to ensure optimal integration and operation of systems of systems.**

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d. **CSR-4: Integrate Information Warfare policy, protocol and procedures into military systems.**

e. **CSR-5: Devise and employ cybersecurity measures to preserve and protect warfighting, networks and capabilities. Recommend tools, processes, and policies that will identify potential threats and counter them. Plan and carry out actions that protect and defend warfighting systems by ensuring confidentiality, integrity, and availability.**

f. **CSR-6: Optimize assured C2 system configurations in the operational environment.**

g. **CSR-7: Integrate Space capabilities into operational planning, communications, Intelligence, Surveillance, and Reconnaissance (ISR), and information operations at the operational and tactical levels of war.**

h. **CSR-8: Develop and implement information warfare requirements into research, development, acquisition, and operations processes.**

i. **CSR-9: Integrate information warfare, to include friendly and adversary capabilities and vulnerabilities into operational planning, for improved execution of C2, communications, ISR, and weapon delivery.**

Enclosure (5)

j. CSR-10: Conduct strategic, operational, and tactical planning for Defensive Cyberspace Operations (DCO) and Space operations. Integrate courses of action into overall mission planning as part of Joint campaign plans.

k. CSR-11: Employ data management and analysis strategies and advanced data science methods to enable operational effectiveness and decision-making processes.

l. CSR-12: Employ and optimize Electromagnetic Maneuver Warfare and threat mitigation frameworks against adversary action.

m. CSR-13: Employ information warfare systems to leverage artificial intelligence, machine learning, data science, cloud, and automation technologies to enhance decision making.

2. Applicable Officer Designator(s)

a. 111X/112X/113X/12XX/131X/132X/15XX/18XX/23XX/31XX/51XX

3. Applicable Billet Designator

a. 1000-1130/1200/1310-1322/1500/1800-1850/2300/3100/5100

4. Educational and Significant Experience Criteria.

a. Coded billets are authorized when the functions of the billet include the CSR competencies listed above (in paragraph 1). For additional clarification regarding definition of suffixes, refer to the NAVPERS 15839I, Vol 1. (Note: 'Proven' requires at least 18-month experience tour in subspecialty coded billet or billet using the CSR of a related subspecialty.)

b. Subspecialty Code Suffixes Authorized. Authorized suffixes should be annotated "X" for yes; unauthorized suffixes should be left blank. If any additional clarification is required for the code, annotate 1, 2, etc., in the notes column and add a Note below the table.

<b>Subspecialty Code Suffixes Authorized</b>				
<b>Billet</b>	<b>Officer</b>	<b>Suffix</b>	<b>Definition</b>	<b>Notes</b>
		C	Proven Doctor of Philosophy	
		D	Doctor of Philosophy	
	X	F	Proven Master's Degree that does not meet all ESRs	1
	X	G	Master's Degree that does not meet all ESRs	2
X		H	Master's Degree desired, not required	3
		L	Certificate degree at the Master's level	
		M	Proven Post Master's Degree graduate education	
		N	Post Master's Degree graduate education	
X	X	P	Master's Degree in approved Navy subspecialty	4
X	X	Q	Proven Master's Degree	5
X	X	R	Proven Significant Experience	6
X	X	S	Significant Experience obtained through OJT	7

**Note 1:**

a. Network Operations and Technology/6209 F-coded Officers are authorized when:

- (1) An Officer has not completed all required ESR (not completed a thesis at NPS).
- (2) An Officer attends a Civilian Institution and completes two thirds or greater of the ESR.

**Note 2:**

a. Network Operations and Technology/6209 G-coded Officers are authorized when:

- (1) An Officer has an F code and has done a tour in a master's degree billet or higher.

**Note 3:**

a. Network Operations and Technology/6209 H-coded Billets are authorized for:

- (1) Billets requiring expertise in the duty requirements as described above where a master's level of knowledge is desirable but not essential for optimum performance.

**Note 4:**

a. Network Operations and Technology/6209 P-coded Billets are authorized when the billet requires the following:

- (1) Primary duties requiring the CSRs.

b. Network Operations and Technology/6209 P-coded Officers are authorized when:

(1) The Officer completes Network Operations and Technology master's degree at NPS. Full Subspecialty will not be given if a thesis or capstone project is not completed. The officer will receive the F Subspecialty Code. Utilization and obligations are still required.

(2) The Officer completes a master's degree at an accredited institution of higher learning that satisfies the 6209 ESRs.

Note 5:

a. Network Operations and Technology/6209 Q-coded Billets are authorized when the billet requires:

(1) All requirements of the P code and experience in the duty requirements as described above as through filling a P-coded billet.

b. Network Operations and Technology/6209 Q-coded Officers are authorized when:

(1) They complete Network Operations and Technology/6209 ESR, either at NPS or another accredited institution, and have done at least 18 months in a master's degree coded billet or higher – Must have a P code prior to the Q-coded tour.

(2) F-coded officers cannot obtain Q codes. They will be authorized G codes.

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Note 6:

a. Network Operations and Technology/6209 R-coded Billets are authorized justified when, in addition to the requirement for S-coded billets, the billet must be filled by officers having filled a previous 6209-coded billet. Leadership, management, planning or programming of specific duties through familiarity or experience, as through service in a previous billet, should characterize these billets.

b. Network Operations and Technology/6209 R-coded Officers are authorized when:

(1) The Officer has filled one B, S, R, P, Q coded billets for more than 18 months and has an S subspecialty code.

(2) Two FITREPs justify that s/he has accomplished the task(s) indicated above for more than 18 months. This in the case the S code was gained as in paragraph 4.b.3 and has not filled a B, S, R, P, or Q coded billet.

Note 7:

a. Network Operations and Technology/6209 S-coded Billets are authorized when the following conditions are met:

(1) The duties require detailed knowledge of, or experience in, information systems or networks as described above.

(2) Appropriate training on specific information systems or networks is available and accessible to qualified officers prior to assignment to the billets.

b. Network Operations and Technology/6209 S-coded Officers are authorized when:

(1) The Officer has filled a B, S, R, P, Q, H coded billet for more than 18 months and has no Subspecialty Code in this field.

(2) FITREP justifies that s/he has accomplished the task(s) associated with the billets above for more than 18 months.

(3) Discrete and incremental training received has provided the set of required skills associated with the billets above.

5. Curriculum Sponsor, Major Area Sponsor and Subject Matter Experts:

a. Curriculum Sponsor: [REDACTED]

b. Major Area Sponsor: [REDACTED]

c. Subject Matter Expert: [REDACTED]

d. Action Officer SME: [REDACTED]

APPROVED: [REDACTED]

APPROV [REDACTED]

APPROVED: [REDACTED]

APPROVED: [REDACTED]