2022-2024 CORE SKILL REQUIREMENTS
System Engineering Analysis
Subspecialty: 650X
Curriculum: 308

Billet subspecialty coding is to be based on the minimum education/training/experience level required for optimum performance. Systems Engineering Analysis/650X subspecialty coding is justified when, in addition to the general criteria stated in NAVPERS 15809 series (Manual of Navy Officer Manpower and Personnel Classification) Part B, the following specific criteria are satisfied:

1. Description of Core Skill Requirements (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 Systems Engineering Analysis/650XP.

 a. CSR-1: SYSTEMS ENGINEERING (SE) – Experience with the Systems Engineering Process to develop functional requirements, manage the design of systems and sub-systems and assure final design integration.

 b. CSR-2: OPERATIONS ANALYSIS (OA) – Experience with the mathematical modeling, quantification of uncertainty and random phenomena that affect systems performance and effectiveness, resource allocation, probability and statistics, optimization technique, simulation, campaign analysis, and tactical analysis techniques.

 c. CSR-3: TECHNOLOGY – Quantitative analyses dealing with alternative choices in tactical and strategic warfare to improve operation of existing complex defense systems and able to apply analysis to influence planning, budgeting procurement and integration of warfare systems.

 d. CSR-4: SENSOR AND WEAPON SYSTEMS – Comprehension of the scientific, mathematical, and engineering principles behind existing and future military systems as they apply to the successful integration of sensor and weapons technologies with platforms.

 e. CSR-5: JOINT PROFESSIONAL MILITARY EDUCATION – Graduates will develop understanding of warfighting within the context of operational art.

2. Applicable Officer Designator(s)

 a. 1000 / 1050 / 111X / 112X / 113X / 114X / 13XX / 18XX

3. Applicable Billet Designator(s)

 a. 1000 / 1050 / 111X / 112X / 113X / 114X / 13XX / 18XX

4. Educational and Significant Experience Criteria. 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 158391, Vol 1. (Note:

'Proven' requires at least 18-month experience tour in subspecialty coded billet or billet using the CSR of a related subspecialty.)

    a. Subspecialty Coded 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.

Subspecialty Code Suffix Authorized				
Billet	Officer	Suffix	Definition	Notes
		C	Proven Doctor of Philosophy	
		D	Doctor of Philosophy	
		F	Proven Master's Degree that does not meet all ESRs	
		G	Master's Degree that does not meet all ESRs	
X		H	Master's Degree desired, not required	1
		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	2
X	X	Q	Proven Master's Degree	3
		R	Proven Significant Experience	
		S	Significant Experience obtained through OJT	

Note 1:

    a. Systems Engineering Analysis/650X H-coded billets are authorized when:

        1. Billets desire a master's level of knowledge in Systems Engineering Analysis but it is not essential for optimum performance.

Note 2:

    a. Systems Engineering Analysis/650X P-coded billets are authorized when:

        1. Billet requires the educational skills required for a master's degree in Systems Engineering Analysis.

        2. The functions of the billet include the CSR competencies listed above.

    b. Systems Engineering Analysis/650X P-coded Officers are authorized when:

        1. The officer completes a master's degree program that meets all Systems Engineering Analysis/650X ESRs.

Note 3:

    a. Systems Engineering Analysis/650X Q-coded billets are authorized when the billet requires:

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1. All educational skills required for a master's degree in Systems Engineering Analysis.

2. The functions of the billet include the CSR competencies listed above.

3. Incumbent to have successfully completed a tour in a Systems Engineering Analysis P-coded billet.

4. Supervision of other Systems Engineering Analysis/650X P coded billets.

b. Systems Engineering Analysis/650X Q-coded officers are authorized when:

1. Officer with a P-code completes at least 18 consecutive months in a master's degree coded billet or higher.

5. Major Area Sponsor

a. Major Area Sponsor: VADM Scott Conn, Deputy Chief of Naval Operations for Warfighting Requirements and Capabilities (OPNAV N9)

b. Subject Matter Expert: Ms. Jill Ballard, Deputy Branch Head, Warfare Systems Strategy and Analysis, (OPNAV N9IX1)

APPROVED: ████████████████

Major Area Sponsor Representative

████████████████ [DATE]

APPROVED: ████████████████

Director, OPNAV N71

████████████████ [DATE]

Enclosure (2)