

Establishment Core Skill Requirements  
Subspecialty 6501  
Curriculum 51A

Billet subspecialty coding is to be based on the minimum education/training/experience level required for optimum performance. Systems Engineering Analysis (6501) subspecialty coding is justified when, in addition to the general criteria stated in NAVPERS 15839 series (Manual of Navy Officer Manpower and Personnel Classification) Part B, the following specific criteria are satisfied:

The Systems Engineering Analysis Subspecialty Code (6501) will provide a command with an officer whose broad-based technical education and/or experience emphasized the concepts of systems engineering theories, principles and methods. In addition to the duties of a Management subspecialist, specific capabilities/requirements include:

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.

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

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.

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.

CSR-5: Graduates will develop understanding of warfighting within the context of operational art

1. Subspecialty Coding Restrictions:
  - a. Requirements Officer related billets assigned to OPNAV.
  - b. Officers with the 6501 subspecialty will fill the appropriate 6511 coded billet for utilization.
2. Applicable Officer Designators: 10xx, 11xx, 12xx, 13xx, 14xx, 15xx, 18xx

3. Applicable Billet Designators: list all applicable, be sure to include the billet only designators 10xx, 11xx, 12xx, 13xx, 14xx, 15xx and 18xx if needed.
4. Significant Experience Criteria:
  - a. Systems Engineer Analysis (6501) S-coded Billets are not authorized.
  - b. Systems Engineer Analysis (6501) S-coded Officers are not authorized.
  - c. Systems Engineer Analysis (6501) R-coded Billets are not authorized.
  - d. Systems Engineer Analysis (6501) R-coded Officers are not authorized.
5. Baccalaureate Criteria
  - a. Systems Engineer Analysis (6501) E-coded Billets are not authorized.
  - b. Systems Engineer Analysis (6501) E-coded Officers are not authorized.
6. Elective Level Criteria Systems Engineer Analysis (6501) H-coded Billets are not authorized.
7. Functional Education Criteria
  - a. Systems Engineer Analysis (6501) F-coded Officers are not authorized.
  - b. Systems Engineer Analysis (6501) G-coded Officers are not authorized.
8. Masters Criteria
  - a. Systems Engineering Analysis (6501) P-coded Billets are not authorized.
  - b. Systems Engineer Analysis (6501) P-coded Officers are justified when the Officer completes all Systems Engineering Analysis (curriculum 51A) ESRs and earns a Master's Degree.
  - c. System Engineering Analysis (6501) Q-coded Billets are not authorized.
  - d. Systems Engineer Analysis (6501) Q-coded Officers are justified when the Officer satisfies the criteria listed for the 6501P code, subsequently completes at least 18 months in a 6511P coded

billet and completion of Defense Acquisition Requirements Management Certification Training (RMCT) Level C .

9. Post-Masters

- a. Systems Engineer Analysis (6501) M-coded Billets not authorized.
- b. Systems Engineer Analysis (6501) M-coded Officers are not authorized.
- c. Systems Engineer Analysis (6501) N-coded Billets are not authorized.
- d. Systems Engineer Analysis (6501) N-Coded Officers are not authorized.

10. Doctorate Criteria

- a. Systems Engineer Analysis (6501) D-coded Billets are not authorized.
- b. Systems Engineer Analysis (6501) D-Coded Officers are not authorized.
- c. Systems Engineer Analysis (6501) C-coded Billets are not authorized.
- d. Systems Engineer Analysis (6501) C-Coded Officers are not authorized.

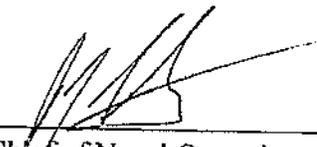
11. Officer Community Managers (OCMs) and the Budget Submitting Offices (BSOs) have agreed to allow billets to be coded for Requirements Management (6511) and Officers to be educated for this curriculum. Applicable BSOs are listed in enclosure (4).

Designator	OCM	Contact Information	Approval Date
11XX	CDR D. Michael Ray		
13XX	CDR Patrick Hansen		
15XX	CAPT Steven Milinkovich		
18XX	CAPT James Scarcelli		

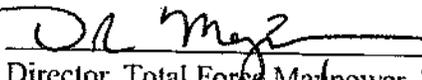
12. Sponsor and Subject Matter Experts

- a. Major Area Sponsor: Pete Fanta, RADM, Deputy Chief of Naval Operations for Warfare Integration (OPNAV N9I).

b. Subject Matter Expert: LCDR Karl Hassenfratz , OPNAV N97.

Approved:   
Deputy Chief of Naval Operations for Warfare  
Integration (OPNAV N91)

11 JAN 17  
Date

Approved:   
Director, Total Force Manpower, Training, and  
Education Requirements (OPNAV N12)

31 Jan 2017  
Date