2017-2019 6402 Core Skill Requirements
NPS Resident Curriculum 374/375/440/443

Billet subspecialty coding is to be based on the minimum education/training/experience level required for optimum performance. The Oceanography Operational Sciences (6402) 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:

1. Description of Core Skill Requirement (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 the Oceanography Operational Sciences (6402) subspecialty. Oceanography Operational Sciences (6402P) requirements can be met by Navy Post Graduate School (NAVPGSCOL) Curricula 374 (Operational Oceanography) and 440 (Oceanography), and Massachusetts Institute of Technology/Woods Hole Oceanographic Institute Joint Program 375 (Oceanography/Applied Ocean Science and Engineering) Educational Skill Requirements (ESR). Oceanography Operational Sciences (6402D) can be met by NAVPGSCOL Curriculum 443 (Oceanography). The billet requires the incumbent apply, instruct, manage programs for, or perform studies/evaluations involving one or more of the following disciplines: tactical environmental analysis; physical, chemical, geological oceanography; air-sea interaction; ocean acoustics; electromagnetic and electro-magnetic propagation in the ocean; remote sensing; or environmental data management. Specific CSRs are listed below:

a. CSR-1: Forecast and assess oceanic conditions in support of all aspects of Naval warfare, with primary emphasis on the tactical impact of environmental parameters which influence weapons, sensors and communications systems in open ocean and coastal operations of the Naval service.

b. CSR-2: Evaluate and compare environmental measure of effectiveness on alternative operational and tactical decisions in order to prepare briefings and to analyze post exercise/action results.

c. CSR-3: Teach Bachelor's level, or higher, courses in Oceanography.

d. CSR-4: Apply a Master's level facility of oceanography, including a thorough understanding of statistical principles and evaluation to the solution of oceanographic problems at the staff and operational level.

e. CSR-5: Independently evaluate spatial and temporal accuracy and relevance of operational products furnished to the Fleet, including charts, atlases, overlays, and technical publications.

f. CSR-6: Independently perform duties involving oceanographic and/or geophysical support to Fleet staffs.

g. CSR-7: Interface with the scientific and/or research and development community to provide inputs to the research, development, testing and evaluation offices on the effects of the environment on the design, development, and test and evaluation of platforms, sensors, and/or weapon systems and have the ability to communicate with research scientists on an advanced level.

h. CSR-8: Plan and direct the employment of in-situ and remote sensing systems for the purpose of accurate assessment of the physical environment.

i. CSR-9: Translate operational Fleet environmental requirements into statements suitable for developmental investigation and introduction into the requirements process.

j. CSR-10: Understand the data processing of operational environmental products, including shore-based and on-scene systems and have the ability to evaluate numerical models and understand their limitations.

k. CSR-11: Development of or operational experience with unmanned undersea vehicles and their capabilities in order to conduct operations in dynamic oceanographic environments with precise navigation, autonomy, endurance, modular payloads, and manned platform/distributed network interfaces.

l. CSR-12: Have doctoral-level facility in one or more of the following disciplines: oceanography, statistical evaluation of measurement in random media, probability distributions and density functions, random variable and functions, harmonic analysis or random functions, or time series analysis (covariance, convolution, density, and cross spectra).

m. CSR-13: Direct graduate-level courses in oceanography and meteorology and provide direct supervision for courses leading to advanced degrees, or the billet requires the incumbent to exert technical supervision over education in oceanography.

n. CSR-14: Coordinate the development of dynamic environmental modeling utilizing advanced numerical techniques.

o. CSR-15: Facility in the extension of prognostic techniques related to the physical interaction of environmental prediction schemes.

p. CSR-16: Conceptualize studies of environmental parameters on the design, development and operation of weapon and/or sensor systems.

q. CSR-17: Conceptualize studies on effects of Naval operations on the marine ecosystem. Meet or work on a routine basis with counterparts in various organizations, both military and civilian, who possess a Doctorate level degree.

r. CSR-18: Manage Navy and Department of Defense programs concerning Positioning, Navigation, and Timing.

2. Applicable Officer Designator(s):

a. 1000-1399, 18XX.

3. Applicable Billet Designator:

a 1000-1399, 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 15839I, Vol 1.

a. 'Proven' requires at least 12-month experience tour in subspecialty coded billet or billet using the CSR of a related subspecialty.

b. Subspecialty Code Suffixes Authorized. Authorized suffixes are annotated "X" for yes; unauthorized suffixes are left blank.

Subspecialty Code Suffixes Authorized				
Billet	**Officer**	**Suffix**	**Definition**	**Notes**
X	X	C	Proven Doctor of Philosophy	1
X	X	D	Doctor of Philosophy	2
		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	3
		I	Graduates of the Immediate Graduate Education Program	
		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	R	Proven Significant Experience	6
		S	Significant Experience obtained through OJT	

Note 1: Significant experience in a related subspecialty area after attainment of the PhD. Significant experience is met by serving 18 or more consecutive months in a subspecialty coded billet or a billet using the CSR of a related subspecialty.

Note 2: Knowledge obtained from a degree in current subspecialty programs. Does not apply to professional entry level degrees such as medical or JDL. Must be from an accredited school. Competencies listed in paragraph 1.a. through 1.r. are germane.

Note 3: To be used if billet can be filled by master's degree or higher. Will be used as a utilization of master's degree if subspecialty code matches detailing matrix. Manpower requirement may be coded higher, but authorization code would be H coded. H codes do not establish a subspecialty quota requirement.

Note 4: Master's degree in an approved Navy-specific subspecialty. Officer can receive proven-subspecialist credit. Must be from an accredited school. Competencies listed in paragraph 1.a. through 1.k. are germane.

Note 5: Experience tour after master's degree. Significant experience is met by serving 18 or more consecutive months in a subspecialty coded billet or a billet using the CSR of a related subspecialty.

Note 6: Significant experience is met by serving 18 or more consecutive months in a subspecialty coded billet or a billet using the CSR of a related subspecialty.

5. Major Area Sponsor and Subject Matter Experts

a. Major Area Sponsor: VADM Jan E. Tighe, Deputy Chief of Naval Operations for Information Warfare (OPNAV N2N6)

b. Subject Matter Expert: RDML Timothy Gallaudet, Oceanographer and Navigator of the U. S. Navy (OPNAV N2N6E)

c. Action Officer SME: CDR Ben Jones, OPNAV N2N6ET, benjamin.a.jones@navy.mil

APPROVED: _____ 13 Apr 17
Major Area Sponsor [DATE]

APPROVED: _____ 27 May 17
for Director, OPNAV N12 [DATE]