

ACADEMIC YEAR 15 CORE SKILL REQUIREMENTS
Oceanography Operational Sciences
6402
Curriculum 375

Billet subspecialty coding is to be based on the minimum education/training/experience level required for optimum performance. 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:

a. 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-optic propagation in the ocean; remote sensing; or environmental data management.

b. The billet requires the incumbent have the ability to perform one or more of the following:

(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.

(2) Evaluate and compare environmental measures of effectiveness on alternative operational and tactical decisions in order to prepare briefings and to analyze post exercise/action results.

(3) Teach Bachelor's level, or higher, courses in oceanography.

(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 levels.

(5) Independently evaluate spatial and temporal

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accuracy and relevance of operational products furnished to the Fleet, including charts, atlases, overlays, and technical publications.

(6) Independently perform duties involving oceanographic and/or geophysical support to Fleet staffs.

(7) Interface with the scientific and/or R&D community to provide inputs to RDT&E 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.

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

(9) Translate operational Fleet environmental requirements into statements suitable for developmental investigation and introduction into the requirements process.

(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.

1. Subspecialty Coding Restrictions:

a. Billets assigned to: URL, IDC, Permanent Military Professor (PMP).

2. Applicable Officer Designator:

- a. 1000-1399
- b. 1800-1850

3. Applicable Billet Designator:

- a. 1000-1399
- b. 1800-1850

4. Significant Experience Criteria:

a. Oceanography Operational Sciences (6402) S-coded billets are not authorized/justified.

b. Oceanography Operational Sciences (6402) S-coded officers are justified when:

(1) The Officer has filled a P- or Q-coded billet for more than 18 months and has no sub-specialty code in this field.

(2) Fitness Report which justifies the officer has performed the 6402 billet requirements indicated for more than 18 months.

(3) Commanding Officer recommendation is received based on significant experience in oceanography gained in a non-6402 billet.

c. Oceanography Operational Sciences (6402) R-coded billets are not authorized/justified.

d. Oceanography Operational Sciences (6402) R-coded officers are not authorized/justified.

5. Baccalaureate Criteria:

a. Oceanography Operational Sciences (6402) E-coded billets are not authorized/justified.

b. Oceanography Operational Sciences (6402) E-coded officers are not authorized/justified.

6. Elective Level Criteria: Oceanography Operational Sciences (6402) H-coded billets are not authorized/justified.

7. Functional Education Criteria:

a. Oceanography Operational Sciences (6402) F-coded billets are not authorized/justified.

b. Oceanography Operational Sciences (6402) F-coded officers are not authorized/justified.

c. Oceanography Operational Sciences (6402) G-coded billets are not authorized/justified.

d. Oceanography Operational Sciences (6402) G-coded officers are authorized when:

(1) An officer has not completed all required ESRs while in residence at NAVPGSCOL.

(2) An officer attends an accredited civilian institution and resulting degree does not meet all required ESRs.

e. Oceanography Operational Sciences (6402) I-coded billets are not authorized/justified.

f. Oceanography Operational Sciences (6402) I-coded officers are authorized for officers completing graduate education in the Oceanography Operational Sciences (6402) program via the Bowman Scholar Program.

8. Master's Criteria For:

a. Oceanography Operational Sciences (6402) P-coded billets are authorized when the functions of the billet require the competencies listed in the preamble of this document.

b. Oceanography Operational Sciences (6402) P-coded officers are justified when the officer completes Oceanography Operational Sciences ESRs.

c. Oceanography Operational Sciences (6402) Q-coded billets are justified when the mission requires experience gained through successful completion of at least one previous tour in a 6402 P-coded billet demonstrating experience in naval oceanography operations.

d. Oceanography Operational Sciences (6402) Q-coded officers are justified when:

(1) The officer has completed the Oceanography Operational Sciences ESRs and served at least 18 consecutive months in a master's degree coded billet or higher. The officer must have a P-code prior to a Q-coded tour.

(2) I-, S- and G- coded officers cannot obtain Q-codes.

9. Post-Masters:

a. Oceanography Operational Sciences (6402) N-coded billets are not authorized/justified.

b. Oceanography Operational Sciences (6402) N-coded officers are not authorized/justified.

c. Oceanography Operational Sciences (6402) M-coded billets are not authorized.

d. Oceanography Operational Sciences (6402) M-coded officers are not authorized/justified.

10. Doctorate Criteria:

a. Oceanography Operational Sciences (6402) D-coded billets are justified when, in addition to the requirements established for the P-coded billets:

(1) The billet requires the incumbent to conceptualize or evaluate studies in oceanographic phenomena, ocean fluid dynamics, ocean physical properties, ocean modeling, or ocean remote sensing.

(2) The billet requires the incumbent have the ability to perform one or more of the following:

(a) 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 variables and functions, harmonic analysis or random functions, or time series analysis (covariance, convolution, density, and cross spectra).

(b) 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.

(c) Coordinate the development of dynamic environmental modeling utilizing advanced numerical techniques.

(d) Facility in the extension of prognostic techniques relating to the physical interaction of environmental prediction schemes.

(e) Conceptualize studies of environmental parameters on the design, development, and operation of weapon and/or sensor systems.

(f) 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.

(g) Manage Navy and DOD programs concerning Positioning, Navigation and Timing.

b. Oceanography Operational Sciences (6402) D-coded officers are justified when the officer completes Oceanography Operational Sciences PhD ESRs.

c. Oceanography Operational Sciences (6402) C-coded billets are not authorized/justified.

d. Oceanography Operational Sciences (6402) C-coded officers are justified when the officer possessing the D-code has served at least 18 consecutive months in a D-coded billet.

11. Community Managers and the Budget Submitting Office has agreed to allow billets to be coded for the Oceanography Operational Sciences (6402) and officers to be educated for this curriculum.

<u>Designator</u>	<u>OCM Name</u>	<u>Approval Date</u>
11xx (SURF)	CDR Chase Patrick	6 May 2014
112x (SUB)	LCDR Eric Astle	7 May 2014
13xx (AVN)	CDR David Whitehead	6 May 2014
14xx (EOD)	LCDR Michael Tollison	18 Jun 2014
180x(METOC)	CDR Shane Stoughton	6 May 2014

12. Sponsor and Subject Matter Experts:

Sponsor: VADM Ted N. Branch, Deputy Chief of Naval Operations for Information Dominance and Director of Naval Intelligence(CNO N2/N6).

Subject Matter Expert: RADM Jonathan White, Oceanographer of the Navy (OPNAV N2N6E)

Point of Contact: CDR Erin Acosta, Deputy Executive Assistant to the Oceanographer of the Navy (OPNAV N2N6E)

APPROVED: Bruce T. Peckles
Major Area Sponsor

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[DATE]

APPROVED: DR Meyer
Director, TFTE (OPNAV N12)

7 July 2015
[DATE]