

MILPERSMAN 1210-110

ENGINEERING DUTY OFFICER DESIGNATION: QUALIFIED IN SUBMARINES

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References	(a) NAVSEAINST 1520.2F (b) OPNAVINST 6420.1B (c) NAVSEA S9002-AK-CCM-010/6010 Industrial Ship Safety Manual for Submarines of 18 September 2018
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1. **Policy.** Per reference (a), officers designated for engineering duty (ED) (14XX) or applying to transfer to the community, may apply for a program which designates them as "engineering duty officer qualified in submarines", which authorizes them to wear the ED dolphin breast insignia. Interested officers should submit applications to Navy Personnel Command (NAVPERSCOM) Engineering Duty Officer Branch (PERS-445) with a copy to Commander, Naval Sea Systems Command (NAVSEA) (SEA 00T1). Selection of candidates for the program will be by an administrative board appointed by Commander, NAVPERSCOM (COMNAVPERSCOM). Selections will be based on performance, academic achievement, service potential, and the needs of the service.

2. **Program Administration.** The ED Dolphin Program is administered by SEA 00T1. The program sponsor (an ED flag officer qualified in submarines) will designate a chairperson in writing. The chairperson will act as the senior oral board member and will be responsible for ensuring the qualification process is followed as prescribed, including the adjudication of waivers and final determination of acceptance or rejection of the ED dolphin qualification journal submitted by a candidate. The chairperson will ensure the proper conduct, content, and administration of the oral board examination and will serve as the principal assistant to the sponsor for the technical aspects

of the program. The chairperson may designate an ED dolphin coordinator to assist with routine aspects of the program, but may not delegate any permissions or authority.

3. **Program Requirements.** There is no specific order in which requirements must be completed. Sequencing will be accomplished to fit each officer and activity situation.

a. Generally, officers who are not assigned to a nuclear shipyard or nuclear supervisor of shipbuilding office at the time they are selected to participate in the program will be ordered to such an assignment at their normal projected rotation date (PRD). PRDs for officers already assigned to a nuclear shipyard or nuclear supervisor of shipbuilding office may be extended as needed to permit completion of the program prior to rotation.

b. All officers in the program will attend the Submarine Officer Basic Course (SOBC) and will be assigned to a fleet ballistic-missile submarine (SSBN) or attack submarine, nuclear (SSN), for a patrol or underway period and associated refit or intermediate level maintenance period. Specific ship assignment for candidates will be arranged by PERS-445 for permanent change of station (PCS)-funded patrol or underway periods.

4. **Physical Exam.** Upon selection for the program, an officer must arrange for, and satisfactorily complete, the radiation and submarine physical examinations per reference (b). Physical disqualification prior to a patrol, underway, refit, or intermediate level maintenance period will terminate the officer's participation in the program.

5. **SOBC.** The SOBC at Naval Submarine School, New London, CT, provides instruction in the basic elements of submarine equipment, systems, and operations. Whenever practical, this course will be included as an intermediate stop on PCS orders.

6. **SSBN Patrol or SSN Underway.** Approximately 16 weeks are devoted to participation in submarine operations as a member of ship's company in order to gain experience in submarine systems, equipment, and operations.

a. The candidate will observe and participate in the extensive industrial effort required to prepare the ship for extended operations.

b. The candidate will assist in preparation of the work package for the next availability following the officer's shipboard assignment.

c. At a minimum, the candidate must complete Diving Officer of the Watch qualification during assignment(s) to the submarine.

d. Additional qualifications such as Officer of the Deck are encouraged.

7. **Nuclear Assistant Ship Superintendent Qualification.** The 3-week course at Puget Sound Naval Shipyard provides essential training in the design, maintenance, and modernization of submarine nuclear propulsion systems. When accomplished incident to a normal PRD, this course will be scheduled for the candidate by PERS-445. Officers attending under temporary additional duty orders will schedule this course through their parent command.

8. **Submarine Concept Design Course, Massachusetts Institute of Technology.** This 2-week course provides the candidate with submarine design information not available through any other forum and includes history and trends, hydrostatics, speed and powering relationships, structures, hydrodynamics, systems design, acoustics, and cost estimating. Attendance is coordinated with, and funded by, SEA 00T1.

9. **Type Commander Indoctrination.** The candidate's command is responsible for arranging travel for a one-day briefing with Commander, Submarine Force, U.S. Pacific Fleet (COMSUBPAC) Pearl Harbor, HI or Commander, Submarine Force, U.S. Atlantic Fleet (COMSUBLANT), Norfolk, VA. Indoctrination includes meeting with submarine personnel for fleet maintenance, availability planning, budgeting, and technical codes. The intent is to provide the candidate first-hand exposure to the maintenance activity customer's viewpoints of the Navy's submarine maintenance programs.

10. **ED Dolphin Qualification Journal.** Each candidate is required to complete a written journal which SEA 00T1 will provide by letter signed by the chairperson or program sponsor. The candidate will forward the completed journal to SEA 00T1, who will arrange for NAVSEA review and approval.

11. **Industrial Period.** Successful performance for one year in a submarine-related assignment at a nuclear shipyard or nuclear supervisor of shipbuilding office is required. During this assignment, the candidate will have the opportunity for training and experience providing exposure to all local aspects of submarine design, construction, maintenance, and modernization, including quality assurance, combat systems, nuclear and non-nuclear systems testing, safety, watertight integrity control, design and engineering, and dry-docking evolutions. Each candidate will become familiar with reference (c). Each candidate must qualify and perform as the primary ship safety officer (SSO) on a submarine availability for a minimum of six months. If this is not practical at the candidate's command, equivalent experience is required through training, under-instruction periods with a qualified SSO, and performing extensive duties on the project team that require integrating work and addressing safety concerns. If the equivalent experience option is pursued, it will require a waiver concurred to by the chairperson or program sponsor.

12. **Walk-through Examination.** The walk-through examination will permit the candidate to demonstrate his or her knowledge of submarine systems, components, and operational concepts in a shipboard environment. When the candidate's commanding officer is satisfied that the candidate has successfully completed the walk-through examination, a local oral board examination will be conducted.

13. **Local Oral Board Examination.** The board will consist of a minimum of two officers qualified in submarines, preferably ED officers (1440), who have experienced the content and nature of an oral examination. It is recommended that one member of the board be a qualified submarine unrestricted line officer (1120) to ensure that operational aspects of submarine operation are adequately covered.

14. **Commanding Officer's Recommendation.** The commanding officer's recommendation will include certification of satisfactory completion of all requirements for the ED Dolphin Program. SEA 00T1 will forward the commanding officer's certification to the chairperson and ED Dolphin Coordinator.

15. **NAVSEA Indoctrination.** Each candidate will travel to Washington, DC for a two-day indoctrination at NAVSEA. Indoctrination includes meeting with submarine technical codes, program management offices, Naval Reactors, and fleet

maintenance personnel. The intent is to provide the candidate first-hand exposure to the viewpoints of the key decision-makers of the Navy's submarine programs. NAVSEA indoctrination will be scheduled in conjunction with the oral board. Both are coordinated with, and funded by, SEA 00T1.

16. **Oral Examination.** The candidate will travel to NAVSEA for an oral examination by a board concurred with by PERS-445. The board will be comprised of two ED captains qualified in submarines (144X) and one unrestricted line captain qualified in submarines (1120 - post command). If the program sponsor is unavailable at the time of the board, one of the ED captains must be designated in writing as chairperson of the board by the program sponsor. The examination will cover all aspects of the program. Should the candidate require a second board, funding will be provided by the candidate's parent command.

17. **Qualification.** Upon completion of the oral examination, the board will submit a written recommendation to PERS-445 for final determination. Upon formal notification by PERS-445 of his or her designation as "engineering duty officer qualified in submarines", the officer is authorized to wear the ED dolphin breast insignia.