

SUBMARINE MEDICAL OFFICER QUALIFICATION CARD

NAME _____

DATE BEGUN _____

DATE COMPLETED _____

The Undersea Medical Corps officer qualifying in submarines will maintain a qualification notebook containing, at a minimum, the following:

- a. All watch qualification cards.
- b. All qualification tests, quizzes, or examinations.
- c. All written work required by this enclosure.

I. REFERENCES

- a. Navy Regulations
- b. OPNAVINST 3120.32 series, Standard Organization and Regulations of the U.S. Navy
- c. Standard Organization and Regulations Manual (SORM)
- d. Ship's Information Books (SIBs); Training Aid Booklets (TABS); Ship System Manuals (SSMs)
- e. NAVSEA S9510-AB-ATM-010 (U), Nuclear Powered Submarine Atmosphere Control Manual
- f. NAVMED P-117, Manual of the Medical Department
- g. NAVMED P-5055, Radiation Health Protection Manual
- h. NAVMED P-5010, Manual of Naval Preventive Medicine
- i. COMSUBLANT/COMSUBPACINST (CSL/CSPINST) 6000.2 series, Standard Submarine Medical Procedures Manual
- j. CSL/CSPINST 6470.5 series, Submarine Radiation Health Manual
- k. BUMEDINST 6470.10 series, Initial Management of Irradiated or Radiactively Contaminated Personnel
- l. NAVSEA S9213-33-MMA-000/V, Radiological Controls for Ships
- m. OPNAVINST 5100.19 series, Navy Safety and Occupational Health Program Manual for Forces Afloat

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- n. NAVSEA S9086-CH-STM-030, Naval Ships' Technical Manual - Gas Free Engineering Manual
- o. BUMEDINST 6240.10 series, Water Quality Standards
- p. OPNAVINST 6400.1 series, Training, Certification, Supervisor Program, and Employment of Independent Duty Hospital Corpsmen (IDCs)
- q. CSL/CSPINST 6000.1 series, Submarine Duty Physical Standards and the Medical Waiver and Disqualification Process
- r. NAVSEA SS521-AG-PRO-010, U.S. Navy Diving Manual
- s. BUMEDINST 6320.38 series, Hyperbaric Oxygen Treatment in Navy Recompression Chambers
- t. OPNAVINST 6420.1 series, Physical Qualification for All Non-Submarine Personnel Embarking on Submarines
- u. NAVSEA SS521-AJ-PRO-010, Guidance for Diving in Contaminated Waters
- v. Bove and Davis' Diving Medicine

II. MEDICAL DEPARTMENT KNOWLEDGE REQUIREMENTS - Medical Department checkouts must be signed by the ship's Medical Department Representative (MDR) or Executive Officer (XO).

1. GENERAL INFORMATION - Describe the Chain of Command's medical responsibilities aboard a submarine. Include the specific assigned responsibilities of, and relationships among, the following personnel:

- a. Commanding Officer
- b. Executive Officer
- c. Medical Department Representative
- d. Squadron, Group, and Force Medical Officers

MDR/XO Date

2. ORGANIZATION AND ADMINISTRATION - Demonstrate understanding of routine organization and daily administration of the medical department including:

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- a. Organization and maintenance of health records
- b. Maintenance of other required logs and journals
- c. Familiarity with medical department instructions
- d. Use of SNAP Automated Medical System (SAMS)
- e. Conduct of routine sick call
- f. Location of medical department equipment (O₂ bottles, backboard, Emergency Response Kit (ERK), etc.) and required maintenance of each
- g. Accident and Injury reporting requirements

MDR/XO Date

3. MEDICAL EVALUATION AND TREATMENT - Demonstrate understanding of the medical evaluation and treatment conducted by the MDR at sea including:

- a. Indications for medical consultations, to include a detailed understanding of the medical and administrative aspects and risk/benefit analysis of a MEDEVAC
- b. Options available for medical consultation while at sea, to include MEDEVAC, MEDADVICE, chat, and phone communication
- c. Familiarity with the protocols used for treatment of common submarine emergencies

MDR/XO Date

4. TRAINING - Be familiar with MDR training responsibilities including:

- a. Knowledge of minimum requirements for MDR periodic training
- b. Participation in at least one onboard Emergency Medical Assistance Team (EMAT) training evolution and drill

MDR/XO Date

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5. MEDICAL READINESS - Demonstrate familiarity with requirements for medical/dental readiness, including:

- a. Ship's Authorized Medical Allowance List (AMAL) and supply process
- b. Medical Readiness Inspections (MRI), including a walk-through of the MRI checklist with the MDR
- c. Ship's AMAL supply procedures, including supplemental Medical Allowance List and supply control
- d. Preventive maintenance schedules and procedures for medical equipment.

MDR/XO Date

6. PREVENTIVE MEDICINE AND SANITATION AFLOAT - Understand requirements for shipboard preventive medicine and sanitation and be able to demonstrate the following:

- a. Sanitation Inspection (Galley, General/Berthing/Heads)
- b. Potable water inspection
- c. Management of medical waste at sea

MDR/XO Date

7. ATMOSPHERE CONTROL - Know the requirements for atmospheric monitoring and the proper use of monitoring equipment to include:

- a. General features and use of fixed and portable monitoring equipment
- b. Sources of atmospheric contaminants while at sea
- c. Routine methods of regenerating and decontaminating the submarine atmosphere
- d. Principles and practice of emergency atmosphere management
- e. Principles and practice of gas-free engineering

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f. Basic understanding of the Submarine Atmosphere Health Assessment Program (SAHAP)

MDR/XO Date

8. RADIATION HEALTH REPORTS - Demonstrate familiarity with MDR responsibilities as they apply to the Radiation Health Program, including Internal and External reporting requirements such as:

- a. Situational/Annual reports
- b. CO's quarterly dosimetry report
- c. Dose transmittal letters
- d. Termination letters
- e. Responsibilities of the XO related to Radiation Health
- f. Dose Investigations
- g. Dose Estimates

MDR/XO Date

9. RADIATION HEALTH PROCEDURES - Demonstrate decontamination procedures by:

- a. Evaluating a radiological spill drill
- b. Displaying knowledge of decontamination standards and procedures
- c. Participating in a Radiation Control (RADCON) drill
- d. Performing a medical record review as part of an internal radiation health audit

MDR/XO Date

III. KNOWLEDGE REQUIREMENTS FOR SHIP'S SYSTEMS AND OPERATIONS - Ship's Systems checkouts may be signed by any submarine qualified crewmember proficient in the use of the relevant system.

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A. GENERAL SUBMARINE ORIENTATION

1. PROPULSION PLANT INDOCTRINATION - Demonstrate a basic understanding of the design and function of the propulsion plant, to include:

a. Basic design of the reactor, including major reactor safety features

b. Sources of primary and secondary propulsion

Crewmember	Date
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2. EMERGENCY PROCEDURES - Describe the types of emergency evolutions and be able to explain the major players and procedures during fire, flooding, collision, propulsion plant casualty, battle stations, and submarine escape scenarios.

Crewmember	Date
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3. INTERIOR COMMUNICATIONS - Demonstrate proper shipboard communication procedures and be able to describe the purpose of the various communication circuits present onboard.

Crewmember	Date
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4. EMERGENCY EQUIPMENT PROFICIENCY - Demonstrate the ability to:

a. Locate emergency breathing devices throughout the ship, including Emergency Air Breathing (EAB) mask and Self Contained Breathing Apparatus (SCBA).

b. Don an appropriate emergency breathing device and demonstrate its use during a circuit of the ship.

Crewmember	Date
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5. SHIPBOARD PROTOCOL AND ETIQUETTE - Understand the social and professional expectations of embarked personnel to include:

a. Principles of wardroom etiquette

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- b. Etiquette of the Chiefs' Mess and the Crew's Mess
- c. Common submarine traditions and pastimes (including playing cribbage with the CO)
- d. Common enlisted ratings and their role onboard
- e. Responsibilities of the Chief of the Boat

Crewmember Date

B. SHIP CONSTRUCTION AND MAIN SYSTEMS

- 1. SHIP CONSTRUCTION, TANKS, AND COMPARTMENTS - Be able to diagram the major compartments of the ship as well as the location and use of the major tanks and spaces. Given a location on the ship, be able to describe various ways of getting to that location.

Crewmember Date

- 2. TRIM AND DRAIN SYSTEMS - Explain the importance and use of the trim and drain systems as they pertain to routine operations.

Crewmember Date

- 3. AIR SYSTEMS - Describe the features and uses of the different air systems onboard including High Pressure (HP) air, service air, and emergency Main Ballast Tank (MBT) blow.

Crewmember Date

- 4. HYDRAULIC SYSTEMS - Describe the features of the hydraulic systems onboard and their relation to the ship's control and operation.

Crewmember Date

C. SHIP SUPPORT SYSTEMS

- 1. ELECTRICAL SYSTEMS - Understand and locate the source of electrical power onboard and the means by which electrical power can be distributed and directed.

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2. WATER SYSTEMS - Explain the different water systems onboard including potable, sanitary, and flushing water. Understand the sources and uses of each.

Crewmember Date

3. WASTE DISPOSAL SYSTEM - Describe the use of the Trash Disposal Unit (TDU) and common injuries associated with it.

Crewmember Date

4. FOOD SERVICES SYSTEMS - Describe and locate the equipment available for the storage and preparation of food while underway, including refrigeration systems, chill boxes, freeze boxes, and cooking equipment.

Crewmember Date

D. COMBAT AND NAVIGATIONAL SYSTEMS

1. SONAR SYSTEMS - Stand part of a watch as sonar Under Instruction (UI). At the conclusion of which be able to:

- a. Describe the basic principles of underwater sound propagation
- b. List and describe the various sonar systems onboard and their uses
- c. Describe the main roles of the sonar department as well as the different roles within the sonar department
- d. Explain how information from sonar is shared and used throughout the ship

Crewmember Date

2. FIRE CONTROL - Stand part of a watch as fire control UI. At the conclusion of which be able to:

- a. Describe the function of fire control
- b. List and describe the various fire control systems

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c. Describe the main roles of the fire control department as well as the different roles within the fire control department

d. Explain how information from fire control is shared and used throughout the ship

Crewmember	Date
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3. QUARTERMASTER/NAVIGATION - Stand part of a watch as quartermaster UI. At the conclusion of which be able to:

a. List and describe the various navigational systems and their use (RLGN, GPS, VMS, etc.)

b. Describe the main function of the quartermaster as well as the different roles within the navigation department

c. Explain how information from navigation is shared and used throughout the ship

Crewmember	Date
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4. SHIP'S CONTROL PANEL - Stand part of watch as helm/pilot UI. At the conclusion of which be able to:

a. Describe the role of the helm/pilot

b. List and describe the various steering systems and their use

c. Describe basic routine and emergency procedures in which helm/pilot play a large role

Crewmember	Date
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5. WEAPONS - Detail the types of weapons present onboard and the basics of their use, limitations, and capabilities.

Crewmember	Date
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6. RADIO - Describe the different means of communication onboard, including ESM, VHF, UHF, and VLF for routine and emergency communications.

Crewmember	Date
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IV. EXAMINATION AND QUALIFICATION - Complete an oral Undersea Medical Officer Submarine Qualification examination based on above requirements list. The oral exam must be attended by the MDR, a qualified OOD, and either/both the CO/XO. Certify satisfactory completion of all underway requirements for designation "Qualified Submarine Medical Officer."

MDR	Date
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OOD	Date
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CO/XO	Date
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