



**SUBMARINE TRAINING  
COMMAND**

**ADVANCED CADET  
SUBMARINE SCHOOL  
QUALIFICATION CARD**

THIS FORM OR COPY THERE OF, SHOULD BE  
PLACED IN THE REMARKS SECTION OF THE  
CADET'S SERVICE RECORD

**1. MEMBER INFORMATION**

<b>1a. Last Name</b>		<b>1b. First Name</b>	<b>1c. MI</b>	<b>1d. Rate</b>
<b>1e. USNSCC ID NUMBER</b>	<b>1f. Home Unit Name</b>		<b>1g. Unit Code</b>	

**2. PREPARATORY COURSEWORK: THE FLEET TYPE SUBMARINE MANUAL (NAVPERS 16160)**

CHAPTERS	TOPICS	ASSIGNMENT	DATE COMPLETED	SCORE
1-4	DEVELOPMENT OF THE SUBMARINE, DEFINITIONS AND PHRASEOLOGY, COMPARTMENTATION AND EXTERIOR INSTALLATIONS, TANK ARRANGEMENTS	ASSIGNMENT 1		
5-8	BUOYANCY AND STABILITY, ENGINEERING PLANT, VENTILATION SYSTEM, REFRIGERATING AND AIR-CONDITIONING SYSTEMS	ASSIGNMENT 2		
9-12	WATER SYSTEM, TRIM AND DRAIN SYSTEMS, AIR SYSTEMS, MAIN HYDRAULIC SYSTEM,	ASSIGNMENT 3		
13-16	THE STEERING SYSTEM, BOW AND STERN PLANES SYSTEMS, ANCHOR HANDLING GEAR AND CAPSTANS, FUEL AND LUBRICATING OIL SYSTEMS	ASSIGNMENT 4		
17-21	GENERAL SURFACE OPERATIONS, GENERAL DIVING OPERATIONS, COMPENSATION, PATROL ROUTINE, SUBMARINE TRAINING DEVICES	ASSIGNMENT 5		

**3. SEAMANSHIP – SUBMARINE SCHOOL (ADVANCED)**

<b>3a. Training Code</b> OT- ___ -2101	<b>3b. Training Name</b> ADVANCED CADET SUBMARINE SCHOOL	<b>3c. Training Location (Base, State)</b>		
<b>3d. Training Start Date</b>	<b>3e. Training End Date</b>	<b>3f. No. Days</b>	<b>3g. COTC (Name and Rank)</b>	<b>3h. COTC Phone Number</b>

**4. CKECKOUT SIGNATURES (CADET WILL DEMONSTRATE ADEQUATE KNOWLEDGE OF SUBJECT AREA)**

SUBJECT AREA	SIGNATURE OF ACTIVE DUTY SUBMARINE QUALIFIED PERSONNEL	DATE
a) DETAIL BRIEF HISTORY OF U.S. SUBMARINE FORCE		
b) BASIC SKETCH OF SUBMARINE EXTERIOR HULL		
c) EXPLAIN MISSION OF SSN'S, SSGN'S AND SSBN'S		
d) IDENTIFY SUBMARINE SAIL COMPONENTS		
e) LIST COMPONENTS ON SSN, SSGN AND SSBN		
f) IDENTIFY MAJOR AIR SYSTEM COMPONENTS AND LOCATIONS		
g) IDENTIFY MAJOR HYDRAULIC SYSTEMS, COMPONENTS, AND LOCATIONS		
h) EXPLAIN BASIC NUCLEAR REACTOR OPERATION		
i) INDENTIFY MAJOR COMPONENTS FOR SUBMARINE WEAPON SYSTEMS ON SSN'S, SSGN'S AND SSBN'S.		
j) EXPLAIN THE PURPOSE OF EAB'S		
k) IDENTIFY MAJOR DAMAGE CONTROL EQUIPMENT AND LOCATIONS		
l) EXPLAIN MAJOR WATCH STATIONS AT SEA		

## SEA CADET SUBMARINE QUALIFICATION CARD (CONT.)

### 4. CKECKOUT SIGNATURES (CADET WILL DEMONSTRATE ADEQUATE KNOWLEDGE OF SUBJECT AREA), cont.

SUBJECT AREA	SIGNATURE OF ACTIVE DUTY SUBMARINE QUALIFIED PERSONNEL	DATE
m) DESCRIBE BRIEFLY CAMS OPERATION AND PURPOSE		
n) LOCATION AND FUNCTIONS OF OXYGEN GENERATOR		
o) EXPLAIN SUBMARINE CONTROL SURFACES		

### 5. ADVANCED CADET SUBMARINE SCHOOL CKECKOUT SIGNATURES (CADET WILL DEMONSTRATE SUPERIOR KNOWLEDGE OF SUBJECT AREA)

a) BASIC SKETCH OF SUBMARINE CONTROL SURFACE HYDRAULIC SYSTEM WITH PUMP, ACCUMULATOR, VALVES, RAM AND LINKAGE.*		
b) DURING SUBMARINE TOUR, CADET MUST ASK ABOUT AND THEN DEMONSTRATE KNOWLEDGE OF BULKHEAD FLAPPERS, PURPOSE AND OPERATION.*		
c) DESCRIBE THE MAJOR COMPONENTS AND THEIR LINKAGE TO CONVERT DIESEL OIL INTO A MEANS OF PROPULSION FOR A SUBMARINE.*		
d) A SUBMARINE IS UNDERWAY AT 5 KNOTS AT 150 FEET. WITH 0 ANGLE ON THE STERN PLANES THERE IS A 3° UP BUBBLE. DESCRIBE HOW TO CORRECT THE SITUATION.*		
e) DESCRIBE THE PROCEDURE TO SURFACE A SUBMARINE WITH THE LOW PRESSURE BLOW SYSTEM AND THE DIFFERENCES BETWEEN FLEET TYPE SUBMARINES AND MODERN BALLISTIC OR FAST ATTACK SUBMARINES.		

\*USE YOUR KNOWLEDGE FROM COMPLETING NAVPERS 16160 COURSEWORK TO ASSIST YOU IN OBTAINING THESE SIGNATURES

### 6. PRACTICAL FACTORS (CADET WILL PERFORM AT LEAST 3 OUT OF 6 OF THE FOLLOWING ACTIVITIES)

PERFORM DURING WATCH STANDING OR ABOARD SUBMARINE	SIGNATURE OF ACTIVE DUTY SUBMARINE QUALIFIED PERSONNEL	DATE
a) STAND OOD WATCH IN VESUB TRAINER GIVING PROPER ORDERS TO THE HELM AND REPORTING CONTACT RELATIVE BEARING AND DISTANCE.		
b) PERFORM AN EMERGENCY ENGINE SHUTDOWN IN THE DIESEL LAB.		
c) PUT ON EAB, ACHIEVING AIR TIGHT SEAL, CONNECT/DISCONNECT AIR SUPPLY, CLEAN AND RESTOW (DURING SUBMARINE TOUR)		
d) AS CHIEF OF THE WATCH IN THE SHIP CONTROL TRAINER, ACTIVATE DIVING ALARM AND MAKING 1MC REPORT FOR DIVING OR SURFACING EVOLUTION		
e) AS HELMSMAN IN THE SHIP CONTROL TRAINER, ACKNOWLEDGE, CARRY OUT AND REPORT WHEN STEERING ORDERED COURSE		
f) AS DIVING OFFICER IN THE SHIP CONTROL TRAINER, ACKNOWLEDGE DEPTH ORDER, DETERMINE AND ORDER BUBBLE AND REPORT WHEN AT ORDERED DEPTH.		

### 7. SUBMARINE TRAINING EXAMS

7a. MID-TERM EXAM DATE (IF GIVEN)	7b. SCORE	7c. FINAL EXAM DATE	7d. SCORE
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### 8. ADVANCE TRAINING COMPLETION

XOTC will verify the following components have been completed.

<input type="checkbox"/> The Fleet Type Submarine Course	<input type="checkbox"/> Completed Submarine Knowledge Checkouts	<input type="checkbox"/> Completed Submarine Practical Factors	<input type="checkbox"/> Passed Mid-Term and Final Exams	Class Standing: ___ of ____
				<input type="checkbox"/> Honor Cadet
8a. Full Name and Rank of XOTC (Print of Type)		8b. Signature of XOTC		8c. Date (DD MMM YY)
9a. Full Name and Rank of COTC (Print of Type)		8b. Signature of COTC		8c. Date (DD MMM YY)