Naval Education and Training Command
NAVEDTRA 43901 (CH-2 INCORPORATED)
September 1998

PERSONNEL QUALIFICATION STANDARD

FOR

ENLISTED SURFACE WARFARE SPECIALIST (ESWS) COMMON CORE

NAME (Rate/Rank) _____

Although the words “he,” “him,” and “his” are used sparingly in this manual to enhance communication, they are not intended to be gender driven nor to affront or discriminate against anyone reading this material.

PREFACE

Warfare Qualified Sailors are an essential element of our Navy's Operational Primacy. The objective of the Enlisted Surface Warfare Specialist Program is to provide the candidate an introduction into the processes and topics necessary to support the warfighting requirements of our Navy. This personnel warfare qualification standard will focus on mission effectiveness, combat readiness and survivability as well as introducing an overall understanding of how an individual unit mission fits into and supports naval doctrine and its objectives. Experience shows it is essential that every warrior in our Navy be totally familiar with the mission of their command and be able to apply this knowledge to support the successful execution of the command's current and future missions.

RECORD OF CHANGES

Change Number	Date of Change	Date of Entry	Affected Pages
CH-1	20 APR 00	20 APR 00	PQSDEVGRU
CH-2	CNO 311405Z JUL 01	01Jun02	ROC, TOC, 60-62, 68, 72. (Changes incorporated Pollution Control Fundamentals into this PQS as directed by CNO)

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INTRODUCTION

PQS PROGRAM

This PQS program is a qualification system for officers and enlisted personnel where certification of a minimum level of competency is required prior to qualifying to perform specific duties. A PQS is a compilation of the minimum knowledge and skills that an individual must demonstrate in order to qualify to stand watches or perform other specific routine duties necessary for the safety, security or proper operation of a ship, aircraft or support system. The objective of PQS is to standardize and facilitate these qualifications.

CANCELLATION

This Standard cancels and supersedes NAVEDTRA 43390-C.

APPLICABILITY

This PQS is applicable to all U. S. Navy Surface Ships, which are authorized to grant Enlisted Surface Warfare Specialist (ESWS) designations IAW OPNAVINST 1414.1 series.

MODEL MANAGER

The Model Manager Command manages a specific PQS manual. This includes overseeing the process of monitoring and updating assigned PQS manuals from the standpoint of technical content and relevance within the community.

TAILORING

To command tailor this package, first have it reviewed by one or more of your most qualified individuals. Delete any portions covering systems and equipment not installed on your ship, aircraft or unit. Next, add any line items, fundamentals, systems and watchstations/workstations that are unique to your command but not already covered in this package. Finally, the package should be reviewed by the cognizant department head and required changes approved by the Commanding Officer or his designated representative. Retain the approved master copy on file for use in tailoring individual packages.

QUALIFIER

The PQS Qualifier is designated in writing by the Commanding Officer to sign off individual watchstations. Qualifiers will normally be E-5 or above and, as a minimum, must have completed the PQS they are authorized to sign off. The names of designated Qualifiers should be made known to all members of the unit or department. The means of maintaining this listing is at the discretion of individual commands. For more information on the duties and responsibilities of PQS Qualifiers, see the PQS Unit Coordinator's Guide.

INTRODUCTION (CONT'D)

CONTENTS

PQS is divided into three sections. The 100 Section (Fundamentals) contains the fundamental knowledge from technical manuals and other texts necessary to satisfactorily understand the watchstation/workstation duties. The 200 Section (Systems) is designed to acquaint you with the systems you will be required to operate at your watchstation/workstation. The 300 Section (Watchstations) lists the tasks you will be required to satisfactorily perform in order to achieve final PQS qualification for a particular watchstation/workstation. All three sections may not apply to this PQS, but where applicable, detailed explanations are provided at the front of each section.

REFERENCES

The references used during the writing of this PQS package were the latest available to the workshop, however, the most current references available should be used when qualifying with this Standard.

NOTES

Classified references may be used in the development of PQS. If such references are used, do not make notes in this book as answers to questions in this Standard may be classified.

TRAINEE

Your supervisor will tell you which watchstations/workstations you are to complete and in what order. Before getting started, turn to the 300 Section first and find your watchstation/workstation. This will tell you what you should do before starting your watchstation/workstation tasks. You may be required to complete another PQS, a school, or other watchstations/workstations within this package. It will also tell you which fundamentals and/or systems from this package you must complete prior to qualification at your watchstation/workstation. If you have any questions or are unable to locate references, contact your supervisor or qualifier. Good luck!

PQS FEEDBACK REPORTS

This PQS was developed using information available at the time of writing. When equipment and requirements change, the PQS needs to be revised. The only way the PQS Development Group knows of these changes is by you, the user, telling us either in a letter or via the Feedback Report contained in the back of this book. You can tell us of new systems and requirements, or of errors you find.

ACRONYMS USED IN THIS PQS

Not all acronyms or abbreviations used in this PQS are defined here. The Subject Matter Experts from the Fleet who wrote this Standard determined the following acronyms or abbreviations may not be commonly known throughout their community and should be defined to avoid confusion. If there is a question concerning an acronym or abbreviation not spelled out on this page nor anywhere else in the Standard, use the references listed on the line item containing the acronym or abbreviation in question.

AOR	Area of Responsibility
ASI/RAD	Automated Shore Interface/Revised Alternative Dataflow
ATT	Aviation Training Team
BMOW	Bostswain's Mate of the Watch
CASREP	Casualty Reports
CAT	Command Assessment Team
CDC	Combat Direction Center
CIC	Combat Information Center
CINC	Commander In Charge
CMEO	Command Managed Equal Opportunity
CNO	Chief of Naval Operation
COSAL	Coordinated Shipboard Allowance List
CRAMSI	Consolidated Residual Asset Management System Inventory
CSTT	Combat Systems Training Teams
CTT	Command Training Team
DCPO	Division Damage Control Petty Officer
DCTT	Damage Control Training Team
DLRS	Depot Level Repairables
DTG	Date Time Group
EA	Electronic Attack
EDVR	Enlisted Distribution Verification Report
EEFI	Essential Elements of Friendly Information
EHF	Extremely High Frequency
EMCON	Emission Control
EP	Electronic Protect
ES	Electronic Support
ETT	Engineering Training Team
HF	High Frequency
ISIC	Immediate Supervisor in Command
ITT	Integrated Training Team
LCPO	Leading Chief Petty Officer
LPO	Leading Petty Officer
LRTP	Long Range Training Plan
MOV	Material Obligation Validation
MSC	Military Sealift Command
NOAP	Navy Oil Analysis Program
NR & R	Navy Rights and Responsibilities

ACRONYMS USED IN THIS PQS (CONT'D)

NRFI	Not Ready for Issue
OOD	Officer of the Deck
POA & M	Plan of Action and Milestones
QMOW	Quartermaster of the Watch
RIP	Remain in Place
SERT	Ship's Electronic Readiness Team
SHF	Super High Frequency
SORTS	Status of Resources and Training System
SRTS	Short Range Training Schedule
SSIC	Standard Subject Identification Code
STREAM	Standard Tension Replenishment Alongside Method
STT	Seamanship Training Team
TAR	Training and Administration of Reserves
TYCOM	Type Commander
UHF	Ultra High Frequency
VHF	Very High Frequency

100 INTRODUCTION TO FUNDAMENTALS

100.1 INTRODUCTION

This PQS begins with a Fundamentals section covering the basic knowledge and principles needed to understand the equipment or duties to be studied. Normally, you would have acquired the knowledge required in the Fundamentals section during the school phase of your training. If you have not been to school or if you need a refresher, the references listed at the beginning of the PQS will aid you in a self-study program. All references cited for study are selected according to their credibility and availability.

100.2 HOW TO COMPLETE

The fundamentals you will have to complete are listed in the watchstation (300 section) for each watchstation. You should complete all required fundamentals before starting the systems and watchstation portions of this PQS, since knowledge gained from fundamentals will aid you in understanding the systems and your watchstation tasks. When you feel you have a complete understanding of one fundamental or more, contact your Qualifier. If you are attempting initial qualification, your Qualifier will expect you to satisfactorily answer all line items in the fundamentals before signing off completion of that fundamental. If you are requalifying or have completed the appropriate schools, your Qualifier may require you to answer representative line items to determine if you have retained the necessary knowledge for your watchstation. If your command requires an oral board or written examination for final qualification, you may be asked any questions from the fundamentals required for your watchstation.

101 PROFESSIONAL LIBRARY

101.1 SUGGESTED READING

NO SINGLE BOOK OR GROUP OF BOOKS CONTAINED IN THIS FUNDAMENTAL SECTION IS INTENDED TO BE A MANDATORY READING ITEM WHEN COMPLETING THIS PQS MANUAL.

101.1.1 RECOMMENDED READING: - None.

.2 SUPPLEMENTAL READING:

THE FOLLOWING LIST IS INCLUDED AS A SOURCE OF SUPPLEMENTAL READING FOR PERSONNEL WHO DESIRE TO OBTAIN ADDITIONAL INFORMATION WHICH SUPPORTS THE HERITAGE AND DOCTRINE FUNDAMENTALS CONTAINED IN THIS COMMON CORE PQS MANUAL. NO SINGLE BOOK OR GROUP OF BOOKS CONTAINED IN THIS LIST IS INTENDED TO BE A REQUIRED READING ITEM WHEN COMPLETING THIS PQS MANUAL. ADDITIONALLY, THE INFORMATION CONTAINED IN THESE SUGGESTED READING BOOKS SHOULD NOT BE USED AS WRITTEN OR ORAL BOARD TESTING MATERIAL.

The MCPON's "Naval Heritage and Core Values" Reading List, Parts "A" and "B"

AS THE MCPON READING LIST IS UPDATED ANNUALLY, THE MOST CURRENT VERSION CAN BE FOUND IN THE MCPON DIRECTLINE PUBLICATION OR THROUGH THE INTERNET AT EITHER OF THE FOLLOWING WEB ADDRESSES:

"www.chinfo.navy.mil/navpalib/mcpon/readgide.htm"

"www.history.navy.mil/faqs/faq46-7.htm"

102 NAVAL HERITAGE AND DOCTRINE FUNDAMENTALS

References:

[a] Naval Doctrine Publication 1, Naval Warfare
[b] Naval Doctrine Publication 4, Naval Logistics
[c] Naval Doctrine Publication 5, Naval Planning
[d] Naval Doctrine Publication 6, Naval Command and Control
[e] The Bluejackets' Manual, Twenty-First Edition
[f] NAVEDTRA 12043, Basic Military Requirements

102.1 State the six areas that comprises Naval Doctrine. [ref. a]

_____
(Signature and Date)

.2 Discuss the following:

a. Command and control [ref. d]
b. Naval planning [ref. c]
c. Naval Intelligence [ref. b]

_____
(Signature and Date)

.3 State the seven principles of Naval Logistics. [ref. b]

_____
(Signature and Date)

.4 What was the first navy ship named after an enlisted man? [ref. e]

_____
(Signature and Date)

.5 Discuss the following military customs and courtesies: [ref. e]

a. Hand salute
b. Saluting the Ensign
c. Dipping the Ensign
d. Gun salute

_____
(Signature and Date)

102 NAVAL HERITAGE AND DOCTRINE FUNDAMENTALS (CONT'D)

102.6 What three classes of naval vessels existed at the inception of the navy? [ref. f]

_____
(Signature and Date)

.7 Discuss the importance of the following conflicts as they relate to Manual History:

a. Battle of Coral Sea [ref. f]
b. Voyage of the Great White Fleet [ref. e]
c. Battle of Normandy [ref. e]
d. Midway [ref. e]
e. Guadalcanal [ref. e]
f. Battle of Leyte Gulf [ref. e]

_____
(Signature and Date)

.8 Discuss the conditions that led to the formation of the U.S. Navy. [ref. a, ch. 1]

_____
(Signature and Date)

.9 State the qualities that characterize the Navy/Marine Corps team as instruments to support national policies. [ref. a, ch. 1]

_____
(Signature and Date)

.10 State the three levels of war. [ref. a, ch. 2]

_____
(Signature and Date)

.11 State the mission of Naval Logistics. [ref. c, ch. 1]

_____
(Signature and Date)

.12 State the importance of planning to Naval Operations. [ref. d, ch. 1]

_____
(Signature and Date)

103 U. S. NAVY ORGANIZATION FUNDAMENTALS

References:

[a] NAVEDTRA 12043, Basic Military Requirements
[b] Bluejackets Manual, Rev. 12
[c] OPNAVINST 1306.2, Fleet, Force, and Command Master Chief Program

103.1 Discuss the responsibilities of the following: [ref. a, ch. 3]

a. Commander in Chief (President)
b. Secretary of Defense
c. Secretary of the Navy
d. Chief of Naval Operations (CNO)
e. Fleet Commander In Charge (CINC)
f. Type Commander (TYCOM)

_____
(Signature and Date)

.2 Discuss the role of the following:

a. Master Chief Petty Officer of the Navy (MCPON) [ref. c]
b. Fleet Master Chief [ref. b]
c. Force Master Chief [ref. c]
d. Command Master Chief (CMC) [ref. c]

_____
(Signature and Date)

.3 Discuss the function of following operational commands: [ref. a, ch. 3]

a. Atlantic Fleet
b. Pacific Fleet
c. Naval Forces, Europe
d. Military Sealift Command (MSC)

_____
(Signature and Date)

103 U. S. NAVY ORGANIZATION FUNDAMENTALS (CONT'D)

103 .4 State the geographic Area of Responsibility (AOR) for the following: [ref. a, ch. 3]

a. 2nd Fleet
b. 3rd and 7th Fleets
c. 5th Fleet
d. 6th Fleet
e. Military Sealift Command (MSC)

_____
(Signature and Date)

.5 State the purpose and content of the following: [ref. a, ch. 3]

a. Standard Organization and Regulations of the U.S. Navy
b. Ship's/Command's Organization and Regulations Manual

_____
(Signature and Date)

.6 Discuss the inter-relationship between the following: [ref. a, ch. 3]

a. Naval Air Squadrons
b. Naval Surface Forces
c. Naval Sub-Surface Forces
d. Naval Amphibious Forces

_____
(Signature and Date)

.7 Discuss the following: [ref. b, app. A]

a. Naval Reserve
b. Ready Reserve
c. Selected Reserve
d. Training and Administration of Reserves (TAR)
e. Individual Ready Reserves

_____
(Signature and Date)

104 SHIPBOARD ORGANIZATION AND ADMINISTRATION FUNDAMENTALS

References:

[a] OPNAVINST 3120.32, Standard Organization and Regulations of the U. S. Navy
[b] OPNAVINST 5354.1D, Navy Equal Opportunity Manual
[c] NAVEDTRA 10047, Military Requirements for Chief Petty Officer
[d] NAVPERS 15560, Naval Military Personnel Manual
[e] 1080#4 UM-01, Enlisted Distribution and Verification Report Users Manual
[f] NAVEDTRA 12147, Engineering Administration
[g] BUPERSINST 1430.16, Advancement Manual
[h] SECNAVINST 1650.1, Navy and Marine Corps Awards Manual
[i] NAVPERS 15909, Enlisted Transfer Manual
[j] NAVEDTRA 12801, Radioman Communications
[k] NAVEDTRA 12609, Legalman
[l] SECNAVINST 5216.5D, Correspondence Manual
[m] BUPERSINST 1610.10, Evaluation and Fitness Reports
[n] OPNAVINST 3500.39, Operational Risk Management

104.1 Discuss the shipboard organizational structure and the duties, responsibilities and authority of the following personnel:

a. Commanding Officer (CO) [ref. a, ch. 3]
b. Executive Officer (XO) [ref. a, ch. 3]
c. Command Master Chief/Senior Enlisted Advisor [ref. a, ch. 3]
d. Department Head [ref. a, ch. 3]
e. Division Officer [ref. a, ch. 3]
f. Leading Chief Petty Officer (LCPO)/Leading Petty Officer (LPO) [ref. a, ch. 3]
g. Work Center Supervisor [ref. a, ch. 3]
h. Division Damage Control Petty Officer (DCPO) [ref. a, ch. 3]
i. Command Career Counselor [ref. a, ch. 3]
j. Ship's 3-M Coordinator [ref. a, ch. 3]
k. OMBUDSMAN [ref. c, ch. 6]
l. Financial Specialist [ref. c, ch. 5]
m. DAPA [ref. a, ch. 3]
n. Quality Assurance Coordinator [ref. f, ch. 8]
o. Medical Department [ref. a, ch. 5]
p. Safety Officer [ref. a, chs, 3, 7]
q. Divisional Safety Petty Officer [ref. a, ch. 3]
r. Security Manager [ref. a, ch. 3]

_____
(Signature and Date)

104 SHIPBOARD ORGANIZATION AND ADMINISTRATION FUNDAMENTALS (CONT'D)

104.2 Discuss the purpose of a shipboard battle organization in relation to the following: [ref. a]

a. Command and ship control [ch. 4]
b. Operations control [ch. 4]
c. Weapons controls [ch. 4]
d. Engineering control [ch. 4]
e. Damage control [ch. 4]
f. Primary flight control [ch. 6]
g. Mine countermeasures control [ch. 6]
h. Debarkation control [ch. 6]

_____
(Signature and Date)

.3 State the purpose of the following bills: [ref. a, ch. 6]

a. Administrative
b. Operational
c. Emergency
d. Special
e. Battle
f. Watch, Quarter and Station

_____
(Signature and Date)

.4 State the purpose of the following reports: [ref. a, ch. 6]

a. 8 o' clock reports
b. 12 o' clock reports

_____
(Signature and Date)

.5 Discuss the purpose and general rules for counseling:

a. Personnel [ref. c, ch. 4]
b. Performance [ref. m, app. C]

_____
(Signature and Date)

104 SHIPBOARD ORGANIZATION AND ADMINISTRATION FUNDAMENTALS (CONT'D)

104.6 Describe the effects of enlisted evaluations on the following:

a. Types of discharges [ref. d, sec. 3610200]
b. Advancement [ref. g, ch. 3]
c. Good conduct awards [ref. h, ch. 4]
d. Eligibility for reenlistment [ref. d, sec. 1040300]
e. Assignment [ref. i, ch. 9]

_____
(Signature and Date)

.7 Explain the use of the following:

a. Naval message [ref. j, ch. 6]
b. E-mail [ref. l, sec. d]

_____
(Signature and Date)

.8 Explain the purpose of the following message components: [ref. j, ch. 6]

a. Date Time Group (DTG)
b. From line
c. To line
d. Info line
e. Classification/declassification line
f. Standard Subject Identification Code (SSIC)
g. Subject line
h. Passing instructions
i. Reference line
j. Amplifying information line
k. Narrative information line
l. Text

_____
(Signature and Date)

.9 Explain what each of the following enlisted service record pages are and what entries are made on each. [ref. d, sec. 5030220]

a. Page 2
b. Page 4
c. Page 13

_____
(Signature and Date)

104 SHIPBOARD ORGANIZATION AND ADMINISTRATION FUNDAMENTALS (CONT'D)

104.10 State the purpose and discuss the contents of the Enlisted Distribution Verification Report (EDVR). [ref. e, ch. 1]

_____
(Signature and Date)

.11 Explain the use of a Report and Disposition of Offenses (NAVPERS 1626/7). [ref. k, ch. 5]

_____
(Signature and Date)

.12 Define the following in reference to a personal misconduct determination: [ref. k, ch. 13]

a. In line of duty
b. Not in line of duty, not due to member's own misconduct
c. Not in line of duty, due to member's own misconduct

_____
(Signature and Date)

.13 Discuss the purpose of the Command Managed Equal Opportunity (CMEO) Program in relation to the following: [ref. b]

a. Command Training Team (CTT) [secs. ES, III]
b. Command Assessment Team (CAT) [secs. ES, III]
c. Navy Rights and Responsibilities (NR & R) workshop [sec. I]
d. Command assessment [sec. III]
e. Plan of Action and Milestones (POA & M) [sec. III]
f. Immediate Supervisor in Command (ISIC) [sec. lll]

_____
(Signature and Date)

104 SHIPBOARD ORGANIZATION AND ADMINISTRATION FUNDAMENTALS (CONT'D)

104.14 Discuss the concept of Operational Risk Management (ORM). [ref. n]

_____

(Signature and Date)

.15 Explain the following as they apply to ORM: [ref. a]

a. Identifying hazards
b. Assessing hazards
c. Making risk decisions
d. Implementing controls
e. Supervising

_____

(Signature and Date

105 SUPPLY ORGANIZATION FUNDAMENTALS

References:

[a] NAVEDTRA 10269-K1, Storekeeper 3&2
[b] NAVEDTRA 12652, Storekeeper 1&C
[c] NAVEDTRA 12100, Boatswain's Mate
[d] COMNAVSURFLANT/COMNAVSURFPACINST 4400.1H, Surface Force Supply Procedures
[e] NAVSUP P 485, Afloat Supply Procedures Manual, Revision 2, Change 8
[f] NAVSUP P 487, Ship's Store Afloat, Revision 3, Change 4
[g] NAVSUP P 486, Food Service Management – General Messes, Revision 3
[h] OPNAVINST 5100.19C, Navy Occupational Safety and Health Program (NAVOSH)

105.1 Explain the importance of the Coordinated Shipboard Allowance List (COSAL) in relationship to the ship's mission and sustainability. [ref. a, ch. 5; ref. b, ch. 2]

_____
(Signature and Date)

.2 Discuss the following processes in reference to the COSAL:

a. Validating [ref. a, ch. 5; ref. b, ch. 2]
b. Updating [ref. a, ch. 5; ref. b, ch. 2]
c. Automated Shore Interface/Revised Alternative Dataflow (ASI/RAD) [ref. d, ch. 6]

_____
(Signature and Date)

.3 Explain how frequently ordered parts effect demand processing. [ref. e, ch. 6]

_____
(Signature and Date)

.4 Discuss the purpose of the Material Obligation Validation (MOV) program. [ref. d, ch. 2]

_____
(Signature and Date)

.5 Discuss the Depot Level Repairables (DLRs) program. [ref. a, ch. 6]

_____
(Signature and Date)

105 SUPPLY ORGANIZATION FUNDAMENTALS (CONT'D)

105.6 Explain the procedures on Not Ready for Issue (NRFI) DLRs in regard to the following situations: [ref. d, app. D]

a. Turn-in
b. Remain in Place (RIP)

_____
(Signature and Date)

.7 Define the purpose of the following: [ref. b, ch. 8]

a. Maintenance Assist Modules (MAMs)
b. Bulkhead ready spares

_____
(Signature and Date)

.8 Discuss the Battle Group Asset Management System (BAMS) concept. [ref. d, ch. 6]

_____
(Signature and Date)

.9 Explain the difference between the two components of the Operating Target (OPTAR): [ref. d, ch. 7]

a. Equipment Maintenance Related Material (EMRM)
b. Other

_____
(Signature and Date)

.10 Explain the effects of the following on ships OPTAR:

a. Departmental budget [ref. d, ch. 7]
b. Consolidated Residual Asset Management System Inventory (CRAMSI) [ref. d, ch. 7]
c. Hazardous material reutilization [ref. h, ch. B-3]
d. Defense Reutilization Marketing Office (DRMO) [ref. e, ch. 3]

_____
(Signature and Date)

105 SUPPLY ORGANIZATION FUNDAMENTALS (CONT'D)

105.11 State how credit is distributed for erroneously ordered parts when they are turned back in to supply. [ref. d, ch. 7]

_____
(Signature and Date)

.12 Define the Uniform Material Movement and Issue Priority System (UMMIPS) and the role it plays with the Priority Designator (PD). [ref. d, ch. 5]

_____
(Signature and Date)

.13 What is the purpose of the following messages: [ref. d, ch. 3]

a. Fleet freight/cargo
b. Main

_____
(Signature and Date)

.14 Discuss the purpose of ship's store afloat. [ref. f, ch. 1]

_____
(Signature and Date)

.15 Explain endurance loading of subsistence and how it effects the ship's mission and sustainability. [ref. g, ch. 4]

_____
(Signature and Date)

.16 Define and describe the Basic Daily Food Allowance (BDFA) and state how it effects each crewmember. [ref. g, ch. 2]

_____
(Signature and Date)

.17 Describe the principle quarterly foodservice report and where it is submitted. [ref. g, ch. 7]

_____
(Signature and Date)

105 SUPPLY ORGANIZATION FUNDAMENTALS (CONT'D)

105.18 State what kind of rations are utilized during during battle stations when the galley or galley personnel are not available. [ref. g, ch. 3]

_____

(Signature and Date)

106 DECK FUNDAMENTALS

References:

[a] The Bluejackets' Manual, Twenty-First Edition
[b] Knight's Modern Seamanship, Eighteenth Edition
[c] NAVEDTRA 12016, Seaman
[d] NAVEDTRA 12100, Boatswain's Mate
[e] NAVEDTRA 12120, Quartermaster
[f] Navigation Rules, USCG Commandant Instruction M16672.2C
[g] NWP 3-50.1, Naval Search and Rescue (SAR) Manual
[h] NWP 4-01.4, Replenishment at Sea
[i] OPNAVINST 3120.32C, Standard Organization and Regulations Manual of the U. S. Navy
[j] Seamanship Fundamentals for the Deck Officer (1981)
[k] Watch Officer's Guide, Eleventh Edition

106.1 State the measuring standard for the following: [ref. j, ch. 7]

a. Line
b. Wire rope

_____
(Signature and Date)

.2 Discuss the difference between three strand and double braid synthetic mooring line, with respect to the following: [ref. d, ch. 2]

a. Strength
b. Breaking characteristics
c. Durability

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(Signature and Date)

.3 Explain the meaning of the following line-handling commands: [ref. d, ch. 2]

a. Hold
b. Check
c. Ease
d. Slack
e. Take-in
f. Cast-off
g. Avast
h. Heave around

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(Signature and Date)

106 DECK FUNDAMENTALS (CONT'D)

106.4 Define the following: [ref. e, ch. 12]

a. Swing circle
b. Drag circle

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(Signature and Date)

.5 Define the following terms as applied to small boats: [ref. d, app. 1]

a. Sea painter
b. Steady lines
c. Manropes (Monkey lines)

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(Signature and Date)

.6 Describe the purpose of the following as applied to ground tackle: [ref. a, ch. 5]

a. Bit
b. Chock
c. Cleat
d. Bullnose
e. Hawse pipe
f. Chain
g. Turnbuckle
h. Gypsy head
i. Capstan
j. Detachable link
k. Chain marking
l. Anchor
m. Chain stopper
n. Pelican hook
o. Wildcat
p. Anchor Brake
q. Anchor buoy

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(Signature and Date)

.7 Define the following as applied to Marlinespike Seamanship: [ref. c]

a. Hawser [app. 1]
b. Line [ch. 3]
c. Wire [ch. 3]
d. Spring lay [app. 1]
e. Small stuff [ch. 3]

106 DECK FUNDAMENTALS (CONT'D)

106.7
- f. Flemish [ch. 3]
- g. Coil [app. 1]
- h. Fake [ch. 3]
- i. Heaving line [app. 1]
- j. Monkey fist (Heaving ball) [ch. 3]
- k. Marlin [ch. 3]
- l. Bight [ch. 3]
- m. Bitter end [ch. 3]
- n. Eye [ch. 3]
- o. Eye splice [ch. 3]
- p. Long splice [ch. 3]
- q. Short splice [ch. 3]
- r. Marlinespike [app. 1]
- s. Fid [app. 1]
- t. Mousing [app. 1]

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(Signature and Date)

.8 Discuss the purpose of the following line handing safety precautions:

- a. Direction of line pull danger area [ref. i, ch. 2]
- b Safe distance from blocks, cleats, gypsy heads, capstans, etc. through which line passes [ref. h, ch. 2]
- c. Removal of all loose objects (ie. rings, watches, keys, etc.) [ref. h, ch. 2]
- d. Whenever possible remain forward and inboard of lines and wires [ref. h. ch. 2]
- e. Line handling using the "hand-over-hand" rule [ref. h, ch. 2]

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(Signature and Date)

.9 Define and discuss the following as applied to mooring: [ref. d, ch. 2]

- a. Mooring line
- b. Breast line
- c. Forward spring line
- d. After spring line
- e. Bow head line
- f. Stern line
- g. Storm line/wire
- h. Tattletale line
- i. Round turn
- j. Figure eight turn
- k. Dip the eye
- l. Single up
- m. Double up
- n. Heavy strain

106 DECK FUNDAMENTALS (CONT'D)

106.9
o. Moderate strain
p. Light strain
q. Frap
r. Rat guards
s. Chafing gear
t. Rat-Tail stopper
u. Safe Working Load (SWL)

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(Signature and Date)

.10 Discuss the following terms in regard to replenishment at sea: [ref. d, ch. 10]

a. Underway Replenishment (UNREP)
b. Vertical Replenishment (VERTREP)
c. Connected Replenishment (CONREP)

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(Signature and Date)

.11 Define the following in regards to replenishment operations: [ref. h, ch. 2]

a. Replenishment course
b. Replenishment speed
c. Control ship
d. Approach ship
e. Delivery ship
f. Transfer station
g. Receiving ship

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(Signature and Date)

.12 Discuss the use of the following during underway replenishment: [ref. h]

a. Inhaul/outhaul line [ch. 4]
b. Messenger [ch. 2]
c. Phone and distance line [ch. 2]
d. Riding line [ch. 3]
e. Tiedown [ch. 3]
f. Easing outline [ch. 3]
g. Span wire/highline [ch. 3]
h. Probe/Robb coupling [ch. 3]
i. Station-to-station phone line [ch. 2]

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(Signature and Date)

106 DECK FUNDAMENTALS (CONT'D)

106.13 Discuss the use of the following equipment in underway replenishment: [ref. d, ch. 10]

a. Winch
b. Bolo
c. Line-throwing gun
d. Fair-lead block
e. Snatch block
f. Contour lights
g. Saddle whips
h. Hose saddles
i. Ram tensioner
j. Trolley
k. Standard Tension Replenishment Alongside Method (STREAM)
l. Cargo drop reel
m. Sliding pad eye
n. STREAM support leg
o. End fitting
p. Star assembly
q. Pendant receiving station
r. Traveling surf
s. Surf block
t. Day/night station markers
u. Replenishment checklist
v. Stream transfer head
w. Chem lites

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(Signature and Date)

.14 Explain the duties of the following replenishment personnel and their hard hat colors: [ref. d, ch. 10]

a. Safety Observer (station and bridge)
b. Rig Captain
c. Riggers
d. Signalman
e. Corpsman
f. Gunner's Mate
g. Winch Operator
h. Phone taker

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(Signature and Date)

106 DECK FUNDAMENTALS (CONT'D)

106.15 Discuss the meaning of whistle signals between the delivery and receiving stations. [ref. d, ch. 10]

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(Signature and Date)

.16 Discuss the following flag hoist signals when displayed by the delivery and/or receiving ship: [ref. d, ch. 10]

a. Romeo at the dip
b. Romeo close up
c. Romeo hauled down
d. Prep at the dip
e. Prep close up
f. Prep hauled down
g. Bravo at the dip
h. Bravo close up
i. Bravo hauled down

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(Signature and Date)

.17 Discuss the differences between emergency and standard breakaway. [ref. d, ch. 10]

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(Signature and Date)

.18 State the purpose of the following:

a. Special sea and anchor detail [ref. i, ch. 6]
b. Plane guard [ref. g, ch. 6]
c. Low visibility detail [ref. i, ch. 4]
d. Flight quarters [ref. i, ch. 2]
e. Restricted maneuvering [ref. f]

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(Signature and Date)

106 DECK FUNDAMENTALS (CONT'D)

106.19 Discuss Abandon Ship procedures, including the following: [ref. a, ch. 4]

a. Who orders "Abandon Ship"
b. Word to be passed
c. Actions of the crew
d. Life boats
e. Life rafts

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(Signature and Date)

.20 Explain how the following are used during the recovery of a "man overboard": [ref. j, ch. 5]

a. Life ring/buoy
b. Smoke float
c. Strobe light
d. Dead Reckoning Tracer (DRT)

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(Signature and Date)

.21 State the three common types of "man-overboard" recovery. [ref. j, ch. 5]

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(Signature and Date)

.22 Define the following emergency conditions: [ref. f]

a. Collision
b. Aground

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(Signature and Date)

.23 Define the following terms:

a. Advance/transfer [ref. e, ch. 11]
b. Pivot point [ref. e, ch. 11]
c. Acceleration/deceleration [ref. e, ch. 11]
d. Turning circle [ref. k, ch. 6]

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(Signature and Date)

106 DECK FUNDAMENTALS (CONT'D)

106.24 Define the following terms/acronyms:

a. True bearing [ref. j, ch. 4]
b. Relative bearing [ref. j, ch. 4]
c. DIW [ref. c, app. 1]
d. Head on [ref. f, rule 14]
e. Crossing [ref. f, rule 15]
f. Overtaking [ref. f, rule 13]
g. Stand on [ref. f, rule 17]
h. Give way [ref. f, rule 16]

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(Signature and Date)

.25 Describe the navigational lights shown under the following: [ref. e, ch. 11]

a. Underway
b. In-port, moored
c. Engaged in special operations
d. Man overboard
e. Not under command
f. Anchored

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(Signature and Date)

.26 Describe the various low visibility sound signals and what they indicate. [ref. d, ch. 7]

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(Signature and Date)

.27 Discuss the following storm warning signals: [ref. d, ch. 7]

a. Gales
b. Storms
c. Hurricanes/Typhoons
d. Small craft

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(Signature and Date)

.28 Discuss the following equipment used in ship handling/navigation:

a. Binoculars [ref. c, ch. 2]
b. Stadimeter [ref. e, ch. 9]
c. Sextant [ref. e, ch. 8]

106 DECK FUNDAMENTALS (CONT'D)

106.28
d. Chronometer [ref. e, ch. 5]
e. Bearing circle [ref. e, ch. e]
f. Telescopic alidade [ref. e, ch. 2]
g. Parallel Motion Protractor (PMP) [ref. e, ch. 2]
h. Parallel rulers [ref. e, ch. 2]
i. Chart [ref. e, ch. 1]
j. Gyrocompass [ref. e, ch. 2]
k. Magnetic compass [ref. e, ch. 2]
l. Radar [ref. b, ch. 8]
m. Fathomether [ref. b, ch. 8]
n. Satellite Navigation (SATNAV) [ref. b, ch. 8]
o. Global Positioning System (GPS) [ref. b, ch. 8]

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(Signature and Date)

.29 Define the following navigational terms/acronyms:

a. LOP [ref. e, ch. 8]
b. EP [ref. e, ch. 8]
c. Fix [ref. e, ch. 8]
d. Latitude [ref. b, ch. 8]
e. Longitude [ref. b, ch. 8]
f. DR [ref. e, ch. 8]
g. Set/drift [ref. e, ch. 11]
h. GMT/Coordinated Universal Standard Time [ref. e, ch. 5]
i. Time zones [ref. e, ch. 5]
j. Variation/deviation [ref. d, ch. 6]
k. IALA (A/B) Buoyage system [ref. d, ch. 6]
l. Cardinal system [ref. d, ch. 6]

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(Signature and Date)

.30 Discuss the different methods of attaining a ship's position. [ref. e, ch. 8]

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(Signature and Date)

.31 Discuss the purpose of Dead Reckoning (DR). [ref. e, ch. 8]

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(Signature and Date)

106 DECK FUNDAMENTALS (CONT'D)

106.32 Describe the purpose of range/channel markings. [ref. e, ch. 4]

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(Signature and Date)

.33 Explain the duties of the following bridge watch personnel: [ref. e, ch. 11]

a. Officer of the Deck (OOD)
b. Conning Officer
c. Boatswain's Mate of the Watch (BMOW)
d. Helmsman/Lee Helmsman
e. Lookouts
f. Quartermaster of the Watch (QMOW)

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(Signature and Date)

.34 Explain the purpose of the following:

a. Barometer [ref. e, app. 1]
b. Psychrometer [ref. e, app. 1]
c. Voice tubes [ref. c, ch. 2]
d. JX/JL circuits [ref. c, ch. 2]
e. Bull horn [ref. c, ch. 2]
f. Telltale panel [ref. c, ch. 2]

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(Signature and Date)

107 OPERATIONS FUNDAMENTALS

References:

[a] NWP 10-1-10 (A), Operational Reports
[b] OPNAVINST 3100.6F, Special Incident Reporting
[c] NWP 10-1-11 (A), Status of Resources and Training System (SORTS)
[d] OPNAVINST 5510.1H, DON Information and Personnel Security Program Regulation
[e] NAVEDTRA 10105, Operations Specialist 3
[f] NAVEDTRA 10106, Operations Specialist 2
[g] NAVEDTRA 12126, Operations Specialist 1 & C
[h] NAVEDTRA 12104, Signalman
[i] NAVEDTRA 12801, Radioman Communications
[j] CNSL/CNSPINST 3502.2C, Surface Force Training Manual
[k] Allied Maritime Tactical Instructions and Procedures, (ATP 1 (C), Vol. 1
[l] Allied Maritime Tactical Signal and Maneuvering Book , (ATP 1 (C), Vol. 2
[m] Jane's Fighting Ships 1995-96
[n] Dutton's Navigation and Piloting, 14th Edition
[o] Non-Combatant Evacuation Operations (NEO), EXTAC 1010
[p] TACNOTE ZZ0050-1-94, Maritime Interception Operations (MIO), Surface Force Standing

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107.1 Describe the duties, responsibilities and authority of the following personnel: [ref. g, ch. 1]

a. Operations Officer
b. Combat Information Center (CIC)/Combat Direction Center (CDC) Officer
c. Communications Officer

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(Signature and Date)

.2 Discuss the primary and secondary missions of CIC/CDC. [ref. e, ch. 1]

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(Signature and Date)

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.3 Explain the following basic information flow functions of CIC/CDC: [ref. e, ch. 1]

a. Gathering
b. Processing
c. Display
d. Evaluation
e. Dissemination
f. Control and assist

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(Signature and Date)

.4 Discuss the general duties of the following watchstations in CIC/CDC: [ref. g, ch. 2]

a. Tactical Action Officer (TAO)
b. CIC Watch Officer (CICWO)
c. Electronic Warfare Supervisor (EWS)
d. Air Warfare Coordinator (AWC)
e. Surface Warfare Coordinator (SUWC)
f. Undersea Warfare Coordinator (USWC)
g. Air Controllers (ASTAC/AIC/HDC)
h. CIC Watch Supervisor (CICWS)
i. Radar Operator
j. Shipping Officer
k. Piloting Officer

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(Signature and Date)

.5 Discuss the information contained in the following: [ref. g, ch. 7]

a. Operational Order (OPORDER)
b. Operational Plan (OPLAN)
c. Operational Tasking (OPTASK)

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(Signature and Date)

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.6 Define the following: [ref. f, ch. 3]

a. Task Force
b. Task Group
c. Task Unit
d. Task Element
e. Battle Force
f. Battle Group
g. Amphibious Ready Group

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(Signature and Date)

.7 Describe the following CIC/CDC plots and status boards, and discuss the functions to each: [ref. e, ch. 1]

a. Strategic plot
b. Geographic plot
c. Surface Summary plot
d. Air Summary plot
e. Surface status board
f. Equipment status board
g. Communications status board
h. EW Information board

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(Signature and Date)

.8 Discuss the requirements and reasons for maintaining a navigational plot in CIC/CDC: [ref. e, ch. 10]

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(Signature and Date)

.9 Explain the function of Tactical Data System (TDS) in a task force environment. [ref. f, ch. 8]

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(Signature and Date)

.10 Discuss the purpose of data links. [ref. f, ch. 4]

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(Signature and Date)

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.11 Explain the function of the following equipment specific to CIC/CDC:

a. Identification Friend or Foe (IFF) [ref. e, ch. 7]
b. Tactical Air Navigation (TACAN) [ref. n, ch. 31]
c. Gyro repeater [ref. e, ch. 9]
d. Radar repeaters [ref. e, ch. 6]
e. Dead-Reckoning Tracer (DRT) [ref. e, ch. 9]
f. Radiotelephones [ref. e, ch. 3]

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(Signature and Date)

.12 Discuss how the following factors affect radar operations: [ref. f, ch. 1]

a. Atmospheric conditions
b. Sea return
c. Weather
d. Height of antenna and target

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(Signature and Date)

.13 Discuss the operational relationship CIC/CDC has with the following stations: [ref. e, ch. 1]

a. Pilot house
b. Signal bridge
c. Radio central
d. Weapons stations
e. Lookouts

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(Signature and Date)

.14 Explain the purpose of Emission Control (EMCON). [ref. e, ch. 1]

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(Signature and Date)

.15 Define the following terms: [ref. e, ch. 1]

a. Electronic Support (ES)
b. Electronic Attack (EA)
c. Electronic Protect (EP)

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(Signature and Date)

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.16 Define the following warfare areas: [ref. k]

a. Air Warfare (AW) [ch. 7]
b. Surface Warfare (SUW) [ch. 8]
c. Undersea Warfare (USW) [ch. 9]
d. Command and Control Warfare (C2W) [ch. 5]
e. Amphibious Warfare [ch. 11]
f. Mine Warfare (MIW) [ch. 13]

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(Signature and Date)

.17 Discuss the following special operations:

a. Maritime Interdiction Operations (MIO) [ref. p, ch. 1]
b. Non-Combatant Evacuation Operations (NEO) [ref. o, ch. 2]
c. Search and Rescue (SAR) [ref. e, ch. 1]

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(Signature and Date)

.18 Explain the missions and characteristics of the following platforms: [ref. m]

a. CV/CVN
b. CG
c. DD
d. DDG
e. FFG
f. T-AO
g. T-AE
h. AOE
i. AFG
j. ATF
k. ARS
l. LCC
m. LHA
n. LHD
o. LPH
p. LPD

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.18
q. LSD
r. LST
s. MCS
t. MCM
u. MHC
v. PC

_____
(Signature and Date)

.19 State the primary mission of the following submarines: [ref. m]

a. SSN
b. SSBN

_____
(Signature and Date)

.20 State the primary mission of the following fixed-wing aircraft: [ref. m]

a. F/A-18 Hornet
b. F-14 Tomcat
c. EA-6B Prowler
d. S-3 Viking
e. ES-3 Shadow
f. E-2 Hawkeye
g. P-3 Orion
h. AV-8 Harrier
i. C-2 Cod

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(Signature and Date)

.21 State the primary mission of the following rotary-wing aircraft: [ref. m]

a. CH-53 Super Stallion
b. MH-53 Sea Dragon
c. UH-46 Sea Knight
d. SH-60 Sea Hawk
e. SH-2 Sea Sprite
f. AH-1 Sea Cobra
g. UH-1 Huey

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(Signature and Date)

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.22 State the primary mission of the following landing craft: [ref. m]

a. LCAC
b. LCU
c. LCM

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(Signature and Date)

.23 Discuss the following methods of visual communications: [ref. h. ch. 9]

a. Flags/pennants/day shapes
b. Flashing light (directional/omni-directional)
c. Semaphore
d. Flares/pyrotechnics
e. Infrared

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(Signature and Date)

.24 Describe the day shapes used for the following: [ref. h, ch. 9]

a. Vessel at anchor
b. Vessel not under command
c. Restricted in ability to maneuver
d. Vessel aground
e. Constrained by draft

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(Signature and Date)

.25 Describe and discuss the flags/pennants used for the following: [ref. l, ch. 2]

a. Refueling/ammunition handling
b. Senior Officer Present Afloat (SOPA)
c. Breakdown
d. Personnel recall
e. Boat recall
f. Divers
g. Personnel working aloft/over the side
h. Hazards of Electro-Magnetic Radiation to Ordnance (HERO)
i. Ready to receive a ship alongside
j. Man overboard

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.25 k. Anchoring
l. Absentee pennants

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(Signature and Date)

.26 Discuss how a message is prepared for transmission via semaphore and flashing light. [ref. h, ch. 8]

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(Signature and Date)

.27 Discuss the following as they apply to radio/voice messages: [ref. e, ch. 3]

a. Flash (Z)
b. Immediate (O)
c. Priority (P)
d. Routine (R)

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(Signature and Date)

.28 Define the following terms:

a. "MINIMIZE" [ref. i, ch. 6]
b. Essential Elements of Friendly Information (EEFI) [ref. e, ch. 3]
c. "BEADWINDOW" [ref. e, ch. 3]
d. "GINGERBREAD" [ref. e, ch. 3]

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(Signature and Date)

.29 Discuss the methods of ship-to-shore and ship-to ship communications. [ref. i, ch. 11]

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(Signature and Date)

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.30 Discuss the following with respect to frequency and range: [ref. i, ch. 11]

a. High Frequency (HF)
b. Very High Frequency (VHF)
c. Ultra High Frequency (UHF)
d. Super High Frequency (SHF)
e. Extremely High Frequency (EHF)

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(Signature and Date)

.31 Discuss Communications Security (COMSEC) and the role of the Communications Security Material (CMS) system custodian. [ref. i, ch. 7]

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(Signature and Date)

.32 Discuss the following terms: [ref. d]

a. Access [ch. 24]
b. Classification [ch. 6]
c. Clearance [ch. 23]
d. Compromise [ch. 4]
e. Need to know [app. b]
f. Restricted area [ch. 13]

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(Signature and Date)

.33 Define the following security classification categories: [ref. d, ch. 6]

a. Confidential
b. Secret
c. Top Secret

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(Signature and Date)

.34 Describe the Naval Warfare Publications Library (NWPL) with respect to the following: [ref. d, ch. 10]

a. Handling, accountability, storage
b. Changes and corrections
c. Reference value

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(Signature and Date)

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.35 Discuss your responsibilities upon discovery of a compromise of a suspected compromise. [ref. d, ch. 4]

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(Signature and Date)

.36 Define the term "emergency destruction". [ref. d, ch. 17]

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(Signature and Date)

.37 Discuss the purpose of the information contained in the following Casualty Reports (CASREP): [ref. a, ch. 4]

a. Initial
b. Update
c. Correction
d. Cancellation

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(Signature and Date)

.38 Explain the information required on a CASREP from the following: [ref. a, ch. 8]

a. Initiating department
b. Operations
c. Supply

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(Signature and Date)

.39 Discuss the significance of the relationship between the casualty category and the mission. [ref. a, ch. 4]

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(Signature and Date)

.40 Explain the purpose of and information contained in the following: [ref. a]

a. Logistics Request (LOGREQ) [ch. 7]
b. Movement Report (MOVREP) [ch. 9]

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(Signature and Date)

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.41 Explain the purpose of the information contained in the following: [ref. b, ch. 2]

a. OPREP-3 Pinnacle
b. OPREP-3 Navy Blue
c. Unit Situation Report (SITREP)

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(Signature and Date)

.42 Explain the purpose of and the information contained in a Status of Resources and Training System (SORTS) message. [ref. c, ch. 1]

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(Signature and Date)

.43 Discuss the following phases in a ship's training cycle: [ref. j, ch. 2]

a. Basic
b. Intermediate
c. Advance

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(Signature and Date)

.44 Discuss the ship's training cycle as it applies to the following terms: [ref. j, ch. 2]

a. Light Off Assessment (LOA)
b. Command Assessment of Readiness and Training (CART)
c. Tailored Ship's Training Availability (TSTA)
d. Final Evaluation Problem (FEP)

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(Signature and Date)

.45 Explain the purpose of the Planning Board for Training (PBFT). [ref. j, ch. 3]

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(Signature and Date)

.46 Discuss the following: [ref. j, ch. 3]

a. Long Range Training Plan (LRTP)
b. Short Range Training Schedule (SRTS)

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(Signature and Date)

107 OPERATIONS FUNDAMENTALS (CONT'D)

107.47 Discuss the organization, duties, and responsibilities of the following: [ref. j, ch. 3]

a. Combat Systems Training Teams (CSTT)
b. Ship's Electronic Readiness Team (SERT)
c. Engineering Training Team (ETT)
d. Damage Control Training Team (DCTT)
e. Seamanship Training Team (STT)
f. Aviation Training Team (ATT)
g. Integrated Training Team (ITT)

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(Signature and Date)

108 COMBAT SYSTEMS FUNDAMENTALS

References:

[a] NAVSEA OP-4, Ammunition Afloat, Revision 5
[b] NAVEDTRA 12443, Gunner's Mate
[c] NAVEDTRA 10276-1, Fire Controlman Third Class
[d] NAVSEA OP-3347, United States Navy Ordnance Safety Precautions
[e] NAVEDTRA 12497, Sonar Technician G 3&2, Vol. 1
[f] The Bluejackets' Manual, Twenty-First Edition
[g] CNSL 4790.20A/CNSP 4790.9B, Implementation and Utilization of the Combat System Operational Sequencing System (CSOSS)
[h] Naval Command and Control, Naval Doctrine Publication 6
[i] NAVEDTRA 10278, Fire Controlman First Class
[j] NAVEDTRA 12497, Sonar Technician G 3&2, Vol. 2
[k] Naval Doctrine Publication 1, Naval Warfare
[l] NAVEDTRA 12406, Fire Controlman, Fire Control Maintenance Concepts, Vol. 4
[m] NAVEDTRA 82160, Interior Communication, Electrician, Vol. 1

108.1 Explain the following terms as they pertain to Combat system missions:

a. Detect to engage [ref. i, ch. 3]
b. Command and Control Warfare (C2W) [ref. k]
c. Naval Surface Fire Support (NSFS) [ref. i, ch. 4]

_____
(Signature and Date)

.2 Define the following acronyms:

a. RADAR [ref. c, ch. 4]
b. SONAR [ref. e, app. l]

_____
(Signature and Date)

.3 State the two warfare areas that utilize naval gun systems. [ref. c, ch. 3]

_____
(Signature and Date)

.4 State the four warfare areas that utilize naval missile systems. [ref. c, ch. 3]

_____
(Signature and Date)

108 COMBAT SYSTEMS FUNDAMENTALS (CONT'D)

108.5 State the purpose of fire control. [ref. c, ch. 1]

_____
(Signature and Date)

.6 Explain the purpose of the following weapons:

a. Harpoon [ref. b, ch. 9]
b. Tomahawk [ref. b, ch. 9]
c. Vertical launched ASROC [ref. b, ch. 9]
d. Standard missiles [ref. b, ch. 9]
e. Torpedo [ref. f, ch. 3]

_____
(Signature and Date)

.7 State the navy ships' self defense weapon systems. [ref. c, chs. 1, 3]

_____
(Signature and Date)

.8 Discuss the purpose of the following radars: [ref. c, ch. 3]

a. Air search
b. Surface search
c. Fire control
d. Navigation

_____
(Signature and Date)

.9 Explain the difference between 2 dimensional and 3 dimensional radars. [ref. c, ch. 3]

_____
(Signature and Date)

.10 Describe the purpose of the Combat Systems Operational Sequencing System (CSOSS). [ref. g, ch. 1]

_____
(Signature and Date)

108 COMBAT SYSTEMS FUNDAMENTALS (CONT'D)

108.11 Describe general duties of the following CSOSS watch standers: [ref. g, ch. 1]

a. Combat Systems Readiness Officer
b. Combat Systems Officer of the Watch
c. Area supervisor (air, surface, undersea, electronic)

_____
(Signature and Date)

.12 Discuss the purpose of torpedo countermeasure systems. [ref. j, ch. 1]

_____
(Signature and Date)

.13 Explain the difference between active and passive sonars. [ref. f, ch. 17]

_____
(Signature and Date)

.14 Discuss how the following factors affect sonar operations: [ref. e, app. 1]

a. Temperature
b. Pressure
c. Salinity

_____
(Signature and Date)

.15 Discuss the safety precautions for entering a magazine. [ref. a, ch. 2]

_____
(Signature and Date)

.16 Discuss the following terms and the hazards associated with each:

a. Hang fire [ref. a, app. A]
b. Mis-fire [ref. a, app. A]
c. Hot gun [ref. a, app. A]
d. Train warning circle [ref. d, ch. 1]

_____
(Signature and Date)

.17 Define the acronyms and discuss the use of the following projectiles: [ref. b, ch. 2]

a. HE-PD
b. HE-VT

108 COMBAT SYSTEMS FUNDAMENTALS (CONT'D)

108.17
c. HE MT-PD
d. VT non-FRAG
e. RAP
f. BL&P
g. HE-IR
h. WP
i. HE-CVT

_____
(Signature and Date)

.18 Discuss the following components of a weapon system: [ref. b, ch. 9]

a. Detection
b. Direction
c. Delivery
d. Destruction

_____
(Signature and Date)

.19 Explain the purpose of Hazards of Electromagnetic Radiation to Ordnance (HERO). [ref. c, ch. 9]

_____
(Signature and Date)

.20 Explain the term C4. [ref. h]

_____
(Signature and Date)

.21 State the two primary gun weapon systems found on navy surface combatants. [ref. b, ch. 6]

_____
(Signature and Date)

.22 State the purpose of blue color coding in regards to ammunition. [ref. b, ch. 2]

_____
(Signature and Date)

108 COMBAT SYSTEMS FUNDAMENTALS (CONT'D)

108.23 State the purpose of the electronic cooling systems. [ref. l, ch. 6]

_____
(Signature and Date)

.24 State the purpose of the ships' gyro as it relates to weapon systems: [ref. m, ch. 4]

_____
(Signature and Date)

109 ENGINEERING FUNDAMENTALS

References:

[a] NSTM S9086-S9-STM-000/CH-562, Surface Ship Steering System
[b] NSTM S9086-H7-STM-010/CH-262, Lubricating Oils, Greases, Specialty Lubricants and Lubricating Systems
[c] NSTM S9086-SN-STM-010/CH-541, Ships' Fuel and Fuel Systems
[d] NSTM S9086-HN-STM-010/CH-243, Propulsion Shafting
[e] NSTM S9086-HN-STM-010/CH-244, Propulsion Bearings and Seals
[f] NSTM S9086-HP-STM-010/CH-245, Propellers
[g] NSTM S9086-SE-STM-010/CH-533, Potable Water Systems
[h] NSTM S9086-RH-STM-010/CH-503, Pumps
[i] NSTM S9086-SC-STM-010/CH-531, V-1, Desalination Low Pressure Distilling Plants
[j] NAVEDTRA 10539, Engineman 3
[k] NSTM 0901-LP-420-0002/CH-9420, Propulsion Reduction Gears, Couplings and Associated Equipment
[l] Engineering Department Organization and Regulations Manual (EDORM)
[m] NSTM S9086-CZ-STM-000/CH-090, Inspections, Tests, Records and Reports
[n] Engineering Operational Sequencing System (EOSS)
[o] NSTM S9086-S3-STM-010/CH-555, V-1, Surface Ship Firefighting
[p] NAVEDTRA 12147, Engineering Administration
[q] Ships' Information Book (SIB)
[r] NAVEDTRA 10572, Damage Controlman 3&2
[s] NAVEDTRA 12164, Electrician's Mate
[t] NAVEDTRA 12001, Fireman
[u] OPNAVINST 5100.19C, Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat
[v] NAVEDTRA 12219, Hull Maintenance Technician

109.1 Brief describe the general duties and responsibilities of each of the following:

a. Chief Engineer (CHENG) [ref. t, ch. 1]
b. Main Propulsion Assistant (MPA) [ref. t, ch. 1]
c. Engineering Officer of the Watch (EOOW) [ref. t, ch. 1]
d. Engineering Duty Officer (EDO) [ref. l, ch. 1]
e. Cold Iron watch/In-port equipment monitor [ref. t, ch. 1]
f. Sound and Security watch [ref. t, ch. 1]
g. Oil King/Water King [ref. t, ch. 1]
h. Gas Free Engineer [ref. t, ch. 1]
i. Fire Marshall [ref. l, ch. 1]

_____
(Signature and Date)

109 ENGINEERING FUNDAMENTALS (CONT'D)

109.2 Discuss the purpose and content of each of the following:

a. Engineering log [ref. l, app. C]
b. Engineering bell book [ref. l, app. C]
c. Engineering night orders [ref. l, ch. 2]
d. Liquid load plan (draft report) [ref. r, ch. 3]
e. Daily fuel and water report [ref. m, sec. 2]
f. Naval Ships' Technical Manual (NSTM) [ref. l, ch. 2]
g. Engineering standing orders [ref. l, ch. 2]
h. Ships' Information Book (SIB) [ref. q, Foreward]
i. Engineering Operational Sequencing System (EOSS) [ref. t, ch. 1]
j. Engineering Department Organization Manual (EDORM) [ref. l]
k. Main Space Fire-Fighting Doctrine [ref. o, vol. 1, sec. 10]
l. Boat report [ref. m, sec. 2]
m. Operational logs [ref. l, app. C]

_____
(Signature and Date)

.3 Discuss the following evolutions in the engineering plant:

a. Jacking over main engine/reduction gears, shafting and propellers [ref. n]
b. Stopping and locking the shaft [ref. n]
c. Refueling operations [ref. c, sec. 1]
d. Full power trial [ref. s, ch. 13]

_____
(Signature and Date)

.4 Describe the 4 phases of the basic steam cycle. [ref. t, ch. 3]

_____
(Signature and Date)

.5 Discuss the operation of the following prime movers: [ref. t]

a. Internal combustion engine [ch. 7]
b. Gas turbines [ch. 6]
c. Steam turbines [ch. 5]

_____
(Signature and Date)

109 ENGINEERING FUNDAMENTALS (CONT'D)

109.6 Explain the purpose and inter-relationship of the prime mover and reduction gears. [ref. t, ch. 8]

_____
(Signature and Date)

.7 State the function of the following:

a. Reduction gear [ref. k, sec. 2]
b. Lube oil pumps [ref. b, sec. 3]
c. Shaft turning (jacking) gear [ref. k, sec. 3]

_____
(Signature and Date)

.8 Discuss the function of the following:

a. Main thrust bearing [ref. e, sec. 3]
b. Shafting [ref. d, sec. 1]
c. Line shaft bearings [ref. e, sec. 2]
d. Bulkhead stuffing boxes [ref. e, sec. 6]
e. Stern tube stuffing box [ref. e, sec. 6]
f. Shaft seal [ref. e, sec. 6]
g. Inflatable shaft seal [ref. e, sec. 6]
h. Stern tube bearing [ref. e, sec. 4]
i. Strut bearing [ref. e, sec. 4]
j. Propeller [ref. f, sec. 1]

_____
(Signature and Date)

.9 Define the following compressed air systems parameters: [ref. t, ch. 10]

a. High pressure
b. Medium pressure
c. Low pressure

_____
(Signature and Date)

109 ENGINEERING FUNDAMENTALS (CONT'D)

109.10 State the purpose of the following: [ref. j, ch. 14]

a. Vital air/non-vital air
b. Priority valves
c. Air receivers/flask
d. Dehydrators
e. HP/LP air cross connect

_____
(Signature and Date)

.11 Explain the basic function of the Potable Water Service/Transfer system. [ref. g, sec. 1]

_____
(Signature and Date)

.12 State the function of the following major components:

a. Potable water storage tanks [ref. g, sec. 2]
b. Valve manifold [ref. g, sec. 2]
c. Fresh water pumps [ref. h, sec. 2]
d. Hypochlorinators/brominator [ref. g, sec. 3]
e. Potable water risers [ref. g, sec. 2]

_____
(Signature and Date)

.13 Explain the special handling and storage requirements for calcium hypochloride. [ref. g, sec. 3]

_____
(Signature and Date)

.14 What are the three types of naval distilling plants. [ref. i, sec. 1]

_____
(Signature and Date)

.15 Explain the safety/sanitation requirements for handling shore source fresh water. [ref. g, sec. 3]

_____
(Signature and Date)

109 ENGINEERING FUNDAMENTALS (CONT'D)

109.16 Explain the special handling and storage requirements for bromide cartridges. [ref. g, sec. 3]

_____
(Signature and Date)

.17 State the purpose of the Ships' Service Electrical Distribution system. [ref. s, ch. 3]

_____
(Signature and Date)

.18 State the function of the following major components: [ref. s, ch. 3]

a. Ship's service/emergency generators
b. Switchboards
c. Bus ties
d. Disconnect links
e. Circuit breakers
f. Automatic Bus Transfer (ABT)
g. Manual Bus Transfer (MBT)

_____
(Signature and Date)

.19 State the purpose of: [ref. j]

a. Air conditioning plants [ch. 17]
b. Refrigeration plants [ch. 16]

_____
(Signature and Date)

.20 Discuss the following components of the air conditioning and refrigeration plants: [ref. j, ch. 16]

a. Compressor
b. Evaporator/cooling coil
c. Condenser/heat exchanger
d. Receiver
e. Thermal expansion valve

_____
(Signature and Date)

109 ENGINEERING FUNDAMENTALS (CONT'D)

109.21 State the purpose of the Steering system. [ref. a, sec. 2]

_____
(Signature and Date)

.22 State the function of the following: [ref. j, ch. 18]

a. Steering motors
b. Steering pumps
c. Steering gear

_____
(Signature and Date)

.23 Explain the different methods of operating the steering gear (controlling the rudders). [ref. a, sec. 9]

_____
(Signature and Date)

.24 State the purpose of the Degaussing system. [ref. s, ch. 10]

_____
(Signature and Date)

.25 State the purpose of the ship's degaussing folder. [ref. p, ch. 2]

_____
(Signature and Date)

.26 State the purpose of the Fuel Oil Quality Management Program. [ref. l, ch. 4]

_____
(Signature and Date)

.27 State the purpose of the Lube Oil Quality Management Program. [ref. l, ch. 4]

_____
(Signature and Date)

.28 State the purpose of Navy Oil Analysis Program (NOAP). [ref. b, sec. 4]

_____
(Signature and Date)

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109 ENGINEERING FUNDAMENTALS (CONT'D)

109.29 State the purpose of the Shipboard Oil Pollution Abatement Program. [ref. t, ch. 13]

_____
(Signature and Date)

.30 State the purpose of the following: [ref. t, ch. 13]

a. Oil spill containment kit
b. Oil spill containment boom/trawler

_____
(Signature and Date)

.31 State the purpose of marine sanitation devices. [ref. u, ch. C15]

_____
(Signature and Date)

.32 List the equipment, protective clothing and disinfectants used during sewage spill clean-up operations. [ref. v, ch. 17]

_____
(Signature and Date)

110 HAZARDOUS MATERIAL/HAZARDOUS WASTE (HM/HW) FUNDAMENTALS

References:

[a] OPNAVINST 5100.19C, Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat, Vol. 1
[b] COMNAVSURFLANT/COMNAVSURFPACINST 4400.1H, Surface Force Supply Procedures

110.1 What are the six categories of hazardous material? [ref. a, sec. B-3, par. B0301.d]

_____
(Signature and Date)

.2 Explain incompatible material and describe an example. [ref. a, sec. B-3]

_____
(Signature and Date)

.3 Explain the information and procedures to be followed when a HM/HW spill is discovered. [ref. a, sec. B-3]

_____
(Signature and Date)

.4 State the personal protection equipment required when handling HM/HW. [ref. a, sec. B-12, par. B1203]

_____
(Signature and Date)

.5 Discuss the underway and import discharge limitations for the following:

a. Trash [ref. b, ch. 11]
b. Garbage [ref. b, ch. 11]
c. Plastic [ref. b, ch. 11]
d. Sewage [ref. b, ch. 11]
e. Oily waste [ref. a, sec. B-3]
f. Paint/mineral spirits [ref. a, sec. B-3]

_____
(Signature and Date)

111 POLLUTION CONTROL FUNDAMENTALS

References:

[a] NSTM S9086-WK-STM-010/CH-670, Stowage, Handling, and Disposal of Hazardous General Use Consumables
[b] OPNAVINST 5090.1B (Chg-2), Environmental and Natural Resources Program Manual
[c] OPNAVINST 5100.19D, Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat
[d] NSTM S9086-T8-STM-010/CH-593 (Rev. 4), Pollution Control
[e] Oil Spills In-port Prevention Video, Pin Number 806628

111.1 Define the following: [ref. a, sec. 1]

a. Hazardous Material
b. Hazardous Waste

_____
(Signature and Date)

.2 Define the following: [ref. b, ch. 19]

a. Oily waste
b. Waste oil

_____
(Signature and Date)

.3 Discuss the legislation that governs the discharge of oily waste into the ocean. [ref. b, ch. 9]

_____
(Signature and Date)

.4 Describe the actions required for oil spills within the U.S. contiguous zone. [ref. b, ch. 19]

_____
(Signature and Date)

.5 Describe the actions required for oil spills outside the U.S. contiguous zone. [ref. b, ch. 19]

_____
(Signature and Date)

111 POLLUTION CONTROL FUNDAMENTALS (CONT'D)

111.6 Explain the general operational and management requirements for bilge water, oil, oily waste, and shipboard pollution abatement. [ref. b, ch. 19; ref. d, sec. 3]

_____
(Signature and Date)

.7 Discuss the oily waste discharge limitations in geographic zones and waters other than those of the United States. [ref. b, ch. 19]

_____
(Signature and Date)

.8 Define and discuss data found on an MSDS. [ref. c, ch. B-3, Glossary G]

_____
(Signature and Date)

.9 Discuss Work Center Supervisor responsibilities as they pertain to HMC&M. [ref. c, ch. B-3]

_____
(Signature and Date)

.10 Discuss all hands responsibilities as they pertain to HMC&M. [ref. c, ch. B-3]

_____
(Signature and Date)

.11 Discuss proper stowage procedures for HMC&M. [ref. c, ch. B-3]

_____
(Signature and Date)

.12 Discuss proper marking of HM containers. [ref. c, ch. B-3]

_____
(Signature and Date)

.13 Discuss flammable material stowage requirements. [ref. a, sec. 4; ref. c, ch. C-23]

_____
(Signature and Date)

.14 Discuss the precautions observed when handling flammables. [ref. c, ch. C-23]

_____
(Signature and Date)

111 POLLUTION CONTROL FUNDAMENTALS (CONT'D)

111.15 State the location and contents of the oil spill containment kit. [ref. b, ch. 19]

_____
(Signature and Date)

.16 Describe required sub-tasks within each of the five ORM elements for conducting petroleum product evolutions (internal transfers, onloads, offloads). [ref. b, ch. 19]

a. Identifying hazards
b. Assessing hazards
c. Making risk decisions
d. Implementing controls
e. Supervising

_____
(Signature and Date)

.17 Discuss the information provided in the Oil Spills In-port Prevention video. [ref. e]

_____
(Signature and Date)

300 INTRODUCTION TO WATCHSTATIONS

300.1 INTRODUCTION

The Watchstation section of your PQS is where you get a chance to demonstrate to your Qualifier that you can put the knowledge you have gained in the previous sections to use. It allows you to practice the tasks required for your watchstation and to handle abnormal conditions and emergencies. Before starting your assigned tasks, you must complete the prerequisites that pertain to the performance of that particular task. Satisfactory completion of all prerequisites is required prior to achievement of final watchstation qualification.

300.2 FORMAT

Each watchstation in this section contains:

- A FINAL QUALIFICATION PAGE, which is used to obtain the required signatures for approval and recording of Final Qualification.

- PREREQUISTES, which are items that must be certified completed before you can begin qualification for a particular watchstation. Prerequisites may include schools, watchstation qualifications from other PQS books, and fundamentals, systems, or watchstation qualifications from this book. Prior to signing off each prerequisite line item, the Qualifier must verify completion from existing records. Record the date of actual completion, not the sign-off date.

300.3 OPERATING PROCEDURES

The PQS deliberately makes no attempt to specify the procedures to be used to complete a task or control or correct a casualty. The only proper sources of this information are the technical manuals, Engineering Operational Sequencing System (EOSS), Naval Air Training and Operating Procedures Standardization (NATOPS) or other policy-making documents prepared for a specific installation or a piece of equipment. Additionally, the level of accuracy required of a trainee may vary from school to school, ship to ship, and squadron to squadron based upon such factors as mission requirements. Thus, proficiency may be confirmed only through demonstrated performance at a level of competency sufficient to satisfy the Commanding Officer.

300 INTRODUCTION TO WATCHSTATIONS (CONT'D)

300.4 DISCUSSION ITEMS

Though actual performance of evolutions is always preferable to observation or discussion, some items listed in each watchstation may be too hazardous or time consuming to perform or simulate. Therefore, you may be required to discuss such items with your Qualifier.

300.5 NUMBERING

Each Final Qualification is assigned both a watchstation number and a NAVEDTRA Final Qualification number. The NAVEDTRA number is to be used for recording qualifications in service and training records.

300.6 HOW TO COMPLETE

After completing the required prerequisites applicable to a particular task, you may perform the task under the supervision of a qualified watchstander. If you satisfactorily perform the task and can explain each step, your Qualifier will sign you off for that task. After all line items have been completed, your Qualifier will verify Final Qualification by signing and dating the Final Qualification pages.

301 ENLISTED SURFACE WARFARE SPECIALIST (ESWS) COMMON CORE

NAME_____ RATE/RANK_____

This page is to be used as a record of satisfactory completion of designated sections of the Personnel Qualification Standard (PQS). Only specified supervisors may signify completion of applicable sections either by written or oral examination, or by observation of performance. The examination or checkout need not cover every item; however, a sufficient number should be covered to demonstrate the examinee's knowledge. Should supervisors *give away* their signatures, unnecessary difficulties can be expected in future routine operations.

This qualification section is to be kept in the individual's training jacket.

The trainee has completed all PQS requirements for this watchstation. Recommend designation as a qualified ENLISTED SURFACE WARFARE SPECIALIST (ESWS) COMMON CORE (NAVEDTRA 43901).

RECOMMENDED_____ DATE_____
Supervisor

RECOMMENDED_____ DATE_____
Division Officer

RECOMMENDED_____ DATE_____
Department Head

QUALIFIED_____ DATE_____
Commanding Officer or Designated Representative

SERVICE RECORD ENTRY_____ DATE_____

301 ENLISTED SURFACE WARFARE SPECIALIST (ESWS)

Estimated completion time: 6 Months

301.1 PREREQUISITES

FOR OPTIMUM TRAINING EFFECTIVENESS, THE FOLLOWING ITEMS SHOULD BE COMPLETED PRIOR TO STARTING YOUR ASSIGNED TASKS, BUT MUST BE COMPLETED PRIOR TO COMPLETION OF THE COMMON CORE PQS MANUAL.

301.1.1 OTHER PQS QUALIFICATIONS:

Damage Control, (NAVEDTRA 43119-G), 307 Advanced Damage Control

Completed _____
(Qualifier and Date)

Damage Control, (NAVEDTRA 43119-G), 308 Advanced Shipboard Firefighter (Structure)

Completed _____
(Qualifier and Date)

Maintenance and Material Management, (NAVEDTRA 43241-G), Communsurate with paygrade

Completed _____
(Qualifier and Date)

.2 FUNDAMENTALS FROM THIS PQS:

102 Naval Heritage and Doctrine

Completed _____ 10% of Watchstation
(Qualifier and Date)

103 U. S. Navy Organization

Completed _____ 10% of Watchstation
(Qualifier and Date)

104 Shipboard Organization and Administration

Completed _____ 10% of Watchstation
(Qualifier and Date)

301 ENLISTED SURFACE WARFARE SPECIALIST (ESWS) (CONT'D)

301.1.2 105 Supply Organization

Completed _____ 10% of Watchstation
(Qualifier and Date)

106 Deck

Completed _____ 10% of Watchstation
(Qualifier and Date)

107 Operations

Completed _____ 10% of Watchstation
(Qualifier and Date)

108 Combat Systems

Completed _____ 10% of Watchstation
(Qualifier and Date)

109 Engineering

Completed _____ 10% of Watchstation
(Qualifier and Date)

110 Hazardous Material/Hazardous Waste

Completed _____ 10% of Watchstation
(Qualifier and Date)

111 Pollution Control

Completed _____ 10% of Watchstation
(Qualifier and Date)

301.2 TASKS – None to be discussed.

301.3 INFREQUENT TASKS – None to be discussed.

301.4 ABNORMAL CONDITIONS– None to be discussed.

301.5 EMERGENCIES – None to be discussed.

301.6 WATCHES – None.

301 ENLISTED SURFACE WARFARE SPECIALIST (ESWS) (CONT'D)

301.7 EXAMINATIONS

301.7.1 No examination is required in order to complete ESWS Common Core PQS Watchstation 301.

Oral and written testing of the material contained in this Common Core PQS Manual will occur in conjunction with the testing required in a ESWS Unit/Type Specific PQS Manual associated with this PQS series.

LIST OF REFERENCES USED IN THIS PQS

Allied Maritime Tactical Instructions and Procedures (ATP) (C), Vol. 1
Allied Maritime Tactical Signal and Maneuvering Book (ATP 1 (C), Vol. 2
Blue Jackets Manual, Rev. 12
BUPERSINST 1430.16, Advancement Manual
BUPERSINST 1610.10, Evaluation and Fitness Reports
CNSL 4790.20A/CNSP 4790.9B, Implementation and Utilization of the Combat System Operational Sequencing System (CSOSS)
CNSL/CNSPINST 3502.2C, Surface Force Training Manual
COMNAVSURFLANT/COMNAVSURFPACINST 4400.1H, Surface Force Supply Procedures
Dutton's Navigation and Piloting (14th Edition)
Enlisted Distribution and Verification Report, 1080# U-01, Users Manual
Jane's Fighting Ships 1995-96
Knight's Modern Seamanship (Eighteenth Edition)
Maritime Interception Operation (MIO) (Surface Force Standing TACNOTE ZZ0050-1-94)
Naval Doctrine Publication 1, Naval Warfare
Naval Doctrine Publication 4, Naval Logistics
Naval Doctrine Publication 5 ,Naval Planning
Naval Doctrine Publication 6, Naval Command and Control
NAVEDTRA 10047, Military Requirements for Chief Petty Officer
NAVEDTRA 10105, Operations Specialist 3
NAVEDTRA 10106, Operations Specialist 2
NAVEDTRA 10276-1, Fire Controlman Third Class
NAVEDTRA 10278, Fire Controlman First Class
NAVEDTRA 10539, Engineman 3
NAVEDTRA 12001, Fireman
NAVEDTRA 12016, Seaman
NAVEDTRA 12043, Basic Military Requirements
NAVEDTRA 12100, Boatswain's Mate
NAVEDTRA 12104, Signalman
NAVEDTRA 12120, Quartermaster
NAVEDTRA 12126,Operations Specialist 1&C
NAVEDTRA 12147, Engineering Administration
NAVEDTRA 12164, Electrician's Mate
NAVEDTRA 12219, Hull Maintenance Technician
NAVEDTRA 12406, Fire Controlman, Fire Control Maintenance Concepts, Volume 4
NAVEDTRA 12443, Gunner Mate
NAVEDTRA 12497, Sonar Technician G 3&2, Vol. 2
NAVEDTRA 12497, Sonar Technician G 3&2. Vol. 1
NAVEDTRA 12609, Legalman
NAVEDTRA 12652, Storekeeper 1&C
NAVEDTRA 1269-K1, Storekeeper 3&2
NAVEDTRA 12801, Radioman Communications
NAVEDTRA 82160, Interior Communication, Technician Vol. 1

LIST OF REFERENCES USED IN THIS PQS (CONT'D)

Navigation Rules, USCG Commandant Instruction M16672.2C
NAVPERS 15560, Naval Military Personnel Manual
NAVPERS 15909, Enlisted Transfer Manual
NAVSEA OP-3347, United States Navy Ordnance Safety Precautions
NAVSEA OP-4, Ammunition Afloat, Revision 5
NAVSUP P 485, Afloat Supply Procedures Manual, Revision 2, Change 8
NAVSUP P 486, Food Service Management-General Messes, Revision 3
NAVSUP P 487, Ship Shore Afloat, Revision 3, Change 4
Non-Combatant Evacuation Operations (NEO) (Extac 1010)
NSTM 0901-LP-420-0002/CH-9420, Propulsion Reduction Gears, Couplings and Associated Equipment
NSTM S9086-CZ-STM-000/CH-090, Inspections, Tests, Records and Reports
NSTM S9086-H7-STM-010/CH-262, Lubricating Oils, Greases, Specialty Lubricants and Lubricating Systems
NSTM S9086-HM-STM-010/CH-243, Propulsion Shafting
NSTM S9086-HN-STM-010/CH-244, Propulsion Bearings and Seals
NSTM S9086-HP-STM-010/CH-245, Propellers
NSTM S9086-RH-STM-010/CH-503, Pumps
NSTM S9086-S3-STM-010/CH-555, Surface Ship Firefighting, Vol. 1
NSTM S9086-S9-STM-000/CH-562, Surface Ship Steering System
NSTM S9086-SC-STM-010/CH-531, Desalination Low Pressure Distilling Plants, Vol. 1
NSTM S9086-SE-STM-010/CH-533, Potable Water Systems
NSTM S9086-SN-STM-010/CH-541, Ship's Fuel and Fuel Systems
NSTM S9086-T8-STM-010/CH-593 (Rev. 4), Pollution Control
Oil Spills In-port Prevention Video, Pin Number 806628
NSTM S9086-WK-STM-010/CH-670, Stowage, Handling, and Disposal of Hazardous General Use Consumables
NWP 4-01.4, Replenishment At Sea
NWP 10-1-10 (A), Operational Reports
NWP 10-1-11, Status of Resources and Training System (SORTS)
Oil Spills In-port Prevention Video, Pin Number 806628
OPNAVINST 1306.2, Fleet, Force, and Command Master Chief Program
OPNAVINST 3100.6F, Special Incident Reporting
OPNAVINST 3120.32, Standard Organization and Regulations of the U. S. Navy
OPNAVINST 3120.32C, Standard Organization and Regulations Manual of the U.S. Navy
OPNAVINST 5090.1B (Chg-2), Environmental and Natural Resources Program Manual
OPNAVINST 5100.19C, Navy Occupational Safety and Health Program (NAVOSH)
OPNAVINST 5100.19D, Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat
OPNAVINST 5354.1D, Navy Equal Opportunity Manual
OPNAVINST 5510.H, DON Information and Personnel Security Program Regulation
Seamanship Fundamentals for the Deck Officer (1981)
SECNAVINST 1650.1, Navy and Marine Corps Awards Manual
SECNAVINST 5216.5D, Correspondence Manual
The Bluejackets' Manual (Twenty-First Edition)
Watch Officer's Guide, Eleventh Edition

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