

Summary Report for Individual Task
551-88L-1023
Perform Engine Room Watch
Status: Approved

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD5 - This product/publication has been reviewed by the product developers in coordination with the PROPONENT foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

Condition: On a vessel, while underway, moored to a pier or on anchor any time of day and any weather conditions.

Standard: The Soldier performs an engine room watch; makes rounds of the engine room; detects unusual noises, vibrations, odors or leaks; and takes appropriate corrective measures. Correctly reads, interprets, and records appropriate measuring device readings. Makes correct entries in the rough log and complies with official policy and procedures IAW TC 55-509.

Special Condition: None

Safety Risk: Medium

MOPP 4:

Task Statements

Cue: None

DANGER

None

WARNING

None

CAUTION

None

Remarks: None

Notes: None

Performance Steps

1. Identify the ship's piping systems and how, where, and why they are controlled.

- a. Starting Air System
- b. Fuel Supply System
- c. Lubricating Oil System
- d. Cooling Water System

2. Identify the following about each piece of machinery:

- a. How it is constructed
- b. How it operates
- c. How it fits into the engineering plant
- d. Where related equipment is controlled

3. Understand how and why protective devices function:

- a. Relief valves
- b. Speed limiting governors
- c. Overspeed trip
- d. Cut-in and cut-out devices

4. Identify the status of every piece of machinery at your station.

- a. On-line
- b. Stand-by
- c. Secured
- d. Out of service

5. Promptly handle any necessary changes in speed or setup.

- a. If necessary change engine speed manually as requested.
- b. Change engine setup;

(1) Start

(2) Stop

(3) Place on-line

(4) Place under a load

(5) Remove load

c. Take off-line

6. Check gauge readings of online/operating machinery at the Engine Room Observation Station for proper operating parameters of all:

a. Propulsion equipment

b. Auxiliary equipment

c. Power generating equipment

d. Electrical switchboard

7. Conduct a round of the engine room.

a. Check for and take corrective actions for any:

(1) Unusual noises

(2) Vibrations

(3) Odors

b. Check bilges for:

(1) Trash

(2) Debris

(3) Excessive liquid levels

c. Check fuel oil service tank levels.

d. On all online/operating machinery:

(1) Check for proper operation.

(2) Obtain and record appropriate gauge readings, including but not limited to:

(a) RPMs

(b) Fuel pressure

- (c) Lube oil pressure
- (d) Water pressure
- (e) Lube oil temperature
- (f) Water temperature
- (g) Exhaust temperature

(3) Check for the following leaks:

- (a) Fuel
- (b) Lube oil
- (c) Water
- (d) Air
- (e) Exhaust

e. Check the propulsion shaft packing gland for:

- (1) Overheating
- (2) Excessive dripping

8. Make correct entries in the rough log.

- a. All repairs
- b. All maintenance performed
- c. Starting and stopping machinery
- d. Operating conditions
- e. Operating pressures
- f. Operating temperatures

(Asterisks indicates a leader performance step.)

Evaluation Guidance: None

Evaluation Preparation: None

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Identified the ship's piping systems and how, where, and why they are controlled.			
2. Identified each piece of machinery.			
3. Understood how and why protective devices function.			
4. Identified the status of every piece of machinery at their station.			
5. Promptly handled any necessary changes in speed or setup.			
6. Checked gauge readings of online/operating machinery at the Engine Room Observation Station for proper operating parameters.			
7. Conducted a round of the engine room.			
8. Made correct entries in the rough log.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	TC 55-509	MARINE ENGINEMAN'S HANDBOOK	No	No

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

Safety: In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

Prerequisite Individual Tasks : None

Supporting Individual Tasks :

Task Number	Title	Proponent	Status
551-88L-2039	Conduct the Engine Room Watch	551 - Transportation (Individual)	Analysis
551-88L-3041	Monitor the Engine Room Watch	551 - Transportation (Individual)	Approved
551-88L-1024	Identify Fueling Procedures	551 - Transportation (Individual)	Approved
551-88L-3041	Monitor the Engine Room Watch	551 - Transportation (Individual)	Analysis
551-881-8112	Monitor the Engine Room Watch	551 - Transportation (Individual)	Analysis

Supported Individual Tasks :

Task Number	Title	Proponent	Status
551-881-8112	Monitor The Engine Room Watch	551 - Transportation (Individual)	Approved
551-881-8112	Monitor the Engine Room Watch	551 - Transportation (Individual)	Analysis

Supported Collective Tasks : None

ICTL Data :

ICTL Title	Personnel Type	MOS Data
88L30 Watercraft Engineer	Enlisted	MOS: 88L, Skill Level: SL3, Duty Pos: TFR, LIC: EN
88L10 Watercraft Engineer	Enlisted	MOS: 88L, Skill Level: SL1, Duty Pos: TFM, LIC: EN

88L40 Watercraft Engineer	Enlisted	MOS: 88L, Skill Level: SL4, Duty Pos: TGB, LIC: EN, SQI: O
88L20 Watercraft Engineer	Enlisted	MOS: 88L, Skill Level: SL2, Duty Pos: TFS, LIC: EN