



Australian Government

MARB017 Perform routine maintenance and repairs on a vessel

Release: 1

MARB017 Perform routine maintenance and repairs on a vessel

Modification History

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to perform routine remedial, preventative and survey deck maintenance and repairs. It includes basic deck maintenance, cleaning tasks, marine painting, and servicing deck machinery and systems on a vessel.

This unit applies to an Integrated Rating or Able Seafarer-Deck/Engine engaged in a range of maintenance activities required on a range of vessels, under the direction of the officer in charge of the deck watch.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan and prepare for work

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1 Maintenance and repair activities are identified from work orders and are clarified with the officer in charge of the deck watch
- 1.2 Relevant plans, drawings and texts are interpreted to determine job specifications

- 1.3 Resources required to complete tasks are identified, obtained and inspected for compliance with job specifications
 - 1.4 Appropriate fall arrest and restraint devices are selected and used according to work health and safety (WHS)/ occupational health and safety (OHS) requirements when working at heights or overside
 - 1.5 Tasks are sequenced and prioritised
 - 1.6 Coordination requirements are resolved with the officer in charge of the deck watch and others involved or affected by the work
 - 1.7 Potential hazards are identified and prevention and/or control measures are selected according to work plan and organisational procedures
- 2 Perform basic deck maintenance**
- 2.1 Suitable personal protective clothing is selected and used according to WHS/OHS requirements
 - 2.2 Deck surfaces are checked according to planned maintenance system
 - 2.3 Deterioration or corrosion of deck surfaces is identified and appropriate maintenance action is carried out according to manufacturer instructions and organisational procedures
 - 2.4 Minor faults and imperfections in paint surfaces are repaired according to manufacturer instructions and organisational procedures
 - 2.5 Weathered surfaces are restored using cleaners and liquid abrasives according to manufacturer instructions and organisational procedures
 - 2.6 Tools and equipment are used correctly and safely
 - 2.7 Maintenance materials are obtained, prepared and applied according to manufacturer instructions and organisational procedures
- 3 Carry out cleaning tasks**
- 3.1 Suitable personal protective clothing is selected and used according to WHS/OHS requirements
 - 3.2 Area to be cleaned is prepared and hazards are identified
 - 3.3 Work area is barricaded or warning signs are provided as required to reduce risk to other crew members

- 3.4 Correct chemicals and cleaning agents are selected and applied according to manufacturer instructions and WHS/OHS requirements
- 3.5 Equipment is used correctly and safely
- 3.6 Cleaning tasks are completed according to manufacturer instructions and organisational procedures
- 4 Prepare and paint surfaces**
 - 4.1 Suitable personal protective clothing is selected and used according to WHS/OHS requirements
 - 4.2 Surfaces are prepared using correct equipment
 - 4.3 Rust remover, rust converter and undercoats are applied according to manufacturer instructions
 - 4.4 Paints are mixed in correct proportions according to manufacturer instructions
 - 4.5 Paint is applied using appropriate application equipment
- 5 Carry out routine maintenance of deck fittings, equipment and systems**
 - 5.1 Fittings and equipment are inspected and inspection results are compared with manufacturer specifications
 - 5.2 Maintenance tasks are carried out to specification
 - 5.3 Mechanical equipment and system components are checked with appropriate instruments
 - 5.4 Faulty items or components are identified and appropriate maintenance procedure is selected
 - 5.5 Unserviceable equipment is tagged according to organisational procedures
- 6 Repair/replace faulty fittings and equipment**
 - 6.1 Fittings and equipment are safely isolated according to regulations and WHS/OHS requirements
 - 6.2 Faulty fittings or equipment are removed using appropriate tools, equipment and procedures
 - 6.3 Replaceable items are selected or serviceable items are repaired according to manufacturer specifications
 - 6.4 Adjustments are made to fittings or equipment to comply with specifications
 - 6.5 Operational check is carried out to ensure compliance with manufacturer specifications

- 6.6 Maintenance report is completed according to organisational procedures
- 7 Clean up**
- 7.1 Work area is cleared and cleaned
- 7.2 Materials are disposed of or recycled according to legislative and organisational requirements
- 7.3 Tools and equipment are checked, maintained and stored according to organisational procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Maintenance and repair activities include the following:

- fire and bilge pumps greasing and oiling
- lifebuoys and lifejackets – subject to regular inspection
- lifesaving appliances – regular inspection and maintenance of lifeboats and equipment, which may include replacing lashings, wires, expired food, and general cleaning and painting
- ropes and wires – inspecting for damage, repairing damaged areas (splicing), replacing, where necessary, such items as mooring lines, cargo wires, lashings, lifeboat falls
- rust prevention

Unit Mapping Information

This unit replaces and is equivalent to MARB3003A Perform routine maintenance and repairs on a vessel.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>

