

MARB004 Perform routine maintenance on a vessel up to 24 metres

Release: 2



MARB004 Perform routine maintenance on a vessel up to 24 metres

Modification History

Release 2. Mapping information has been corrected.

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to perform routine remedial, preventative and survey deck maintenance. It includes basic deck maintenance, cleaning tasks, marine painting, and servicing deck machinery and systems on commercial vessels up to 24 metres.

This unit applies to people working in the capacity of Master on a range of vessels up to 24 metres in near coastal waters.

This unit has links to legislative and certification requirements

Pre-requisite Unit

Not applicable.

Competency Field

B - Equipment Checking and Maintenance

Unit Sector

Not applicable.

Elements and Performance Criteria

Elements describe the essential outcomes.

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

- 1 Plan maintenance tasks
- 1.1 Planned maintenance system is accessed to establish maintenance requirements for vessel
- 1.2 Maintenance tasks are proposed and prioritised in conjunction with others involved in or affected by the maintenance work

Approved Page 2 of 6

- 1.3 Resource requirements are identified and allocated to ensure efficient completion of tasks
- 1.4 Maintenance tasks to be performed are recorded in a maintenance schedule according to organisational procedures

2 Perform basic deck maintenance

- 2.1 Deck surfaces are checked according to planned maintenance system
- 2.2 Any deterioration or corrosion of vessel deck surfaces is identified and appropriate maintenance action is carried out according to planned maintenance system
- 2.3 Minor faults and imperfections in paint surfaces are repaired according to organisational procedures
- 2.4 Weathered surfaces are restored using cleaners and liquid abrasives according to manufacturer instructions and organisational procedures
- 2.5 Tools and equipment are used correctly and safely
- 2.6 Maintenance materials are obtained, prepared and applied according to organisational procedures and manufacturer instructions

3 Carry out cleaning activities

- 3.1 Area to be cleaned is prepared and hazards are identified
- 3.2 Work area is barricaded or warning signs provided, as appropriate, to reduce risk to other crew members
- 3.3 Correct chemicals and cleaning agents are selected and applied according to manufacturer instructions and work health and safety (WHS)/occupational health and safety (OHS) requirements
- 3.4 Equipment is used correctly and safely
- 3.5 Cleaning tasks are completed according to organisational procedures and manufacturer instructions

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 specifications

Approved Page 3 of 6

		4.4	Paints are mixed in correct proportions according to manufacturer specifications
5	Carry out routine maintenance of deck fittings, equipment and systems	4.5	Paint is applied using appropriate application equipment
		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
6	Repair/replace faulty fittings and equipment	5.4	Faulty items or components are identified and maintenance procedures selected
		5.5	Unserviceable equipment is tagged and faults are identified according to organisational procedures
		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 fitted according to manufacturer specifications
7	Supervise crew in completing maintenance tasks	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
		7.1	Workload is organised in order of priority according to planned maintenance system
		7.2	Maintenance tasks are allocated to appropriate crew members with consideration of individual experience and qualifications
		7.3	Crew members are clearly briefed on their responsibility and maintenance tasks and WHS/OHS requirements
		7.4	Guidance is provided appropriate to maintenance task and individual experience

Approved Page 4 of 6

		7.5	Completed work is checked to ensure maintenance is performed according to organisational procedures
8	Clean up	8.1	Work area is cleared and cleaned for serviceable condition
		8.2	Materials are disposed of or recycled according to legislative and organisational requirements
		8.3	Tools and equipment are cleaned, checked and stored according to organisational procedures

Foundation Skills

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

Approved Page 5 of 6

Range of Conditions

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

Maintenance tasks include one or more of the following:

- fire and bilge pumps
- lifesaving appliances
- greasing and oiling
- ropes and wires
- rust prevention

Area includes one or more of the following:

- battery room
- engine room
- exposed deck area
- firefighting equipment spaces
- store room
- wheelhouse and accommodation area

Fittings and equipment include one or more of the following:

- fuel, fresh and ballast water, bilge and firefighting pumps
- lifting equipment
- navigation lights and shapes
- sounding and ventilation arrangements
- steering gear
- windlass and capstan

Materials include one or more of the following:

- cleaning chemicals
- paint residues
- rags
- spent oil

Unit Mapping Information

This unit replaces and is equivalent to MARB3004A Perform routine maintenance on a vessel up to 24 metres.

Links

to MAR Maritime Training Package Companion Volume Implementation Guide at: - http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=22

Approved Page 6 of 6