



Australian Government

MARB029 Perform routine maintenance on a vessel up to 24 metres

Release: 1

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Modification History

Release 1. New unit of competency. Licensing/regulatory information has been incorporated in accordance with Regulatory requirements. Assessment Requirements have been strengthened in accordance with Regulatory requirements.

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 m.

This unit applies to people working in the maritime industry in the capacity of:

- master on commercial vessels <24 m in length within the exclusive economic zone (EEZ) or
- chief mate or deck watchkeeper on vessels <35 m in length within the EEZ or
- chief mate or deck watchkeeper on vessels <80 m in length in inshore waters; and
- master on commercial vessels <24 m in length in inland waters.

Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit. This unit is one of the requirements to obtain Australian Maritime Safety Authority (AMSA) certification as a Master (Inland waters) and Master <24 m NC as defined in the National Standard for Commercial Vessels (NSCV) Part D. The AMSA mandated practical assessment (AMPA) is a requirement for AMSA certification. The Australian Maritime Safety Authority (AMSA) mandated practical assessment (AMPA) will cover a range, but not all, of the requirements identified in the Performance Evidence and Knowledge Evidence. The AMPA shall be undertaken in accordance with its instructions.

Assessors of AMPA must hold as a minimum:

- a current certificate of competency issued under Marine Safety (Domestic Commercial Vessel) National Law Act 2012 at the same level as the qualification being assessed with at least 12 months' relevant sea service, or
- a relevant seafarer certificate, as master, engineer or deck officer, issued under the Navigation Act 2012.

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.

PERFORMANCE CRITERIA

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
- 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 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
- 4.4** Paints are mixed in correct proportions according to manufacturer specifications
- 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 specifications
- 5.3** Mechanical equipment and system components are checked with appropriate instruments
- 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 Repair or 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 fitted 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 Supervise crew in completing maintenance tasks**
 - 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
 - 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.

Range of Conditions

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

Unit Mapping Information

This unit replaces and is equivalent to MARB004 Perform routine maintenance on a vessel up to 24 metres.

Links

Companion Volume implementation guides are found in VETNet -

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