



Australian Government

MARB001 Assist with routine maintenance of a vessel

Release: 1

MARB001 Assist with routine maintenance of a vessel

Modification History

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to carry out general routine maintenance on a vessel up to 80 metres.

This unit applies to general purpose hands working in the maritime industry on vessels up to 80 metres in near coastal waters as part of a vessel crew.

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 Select and set up equipment and materials for cleaning

- 1.1 Equipment is selected according to type of cleaning to be undertaken
- 1.2 Equipment is checked to ensure it is clean and serviceable
- 1.3 Suitable dry and wet cleaning agents and chemicals are selected and prepared according to manufacturer instructions and work health and safety(WHS)/occupational health and safety (OHS) requirements
- 1.4 Suitable personal protective clothing and equipment is selected and used where necessary

2 Clean work area

- 2.1 Work area to be cleaned is prepared and hazards are identified

- 2.2 Work area is barricaded or warning signs are provided, as appropriate, to reduce risk to self and other crew members
 - 2.3 Correct cleaning agents are selected and applied according to manufacturer instructions and WHS/OHS requirements
 - 2.4 Equipment is used correctly and safely
- 3 Follow instructions to carry out routine maintenance of vessel machinery**
 - 3.1 Suitable personal protective clothing is selected and used according to WHS/OHS safety requirements
 - 3.2 Greasing, lubrication and other routine servicing of vessel machinery and equipment is carried out according to supervisor and manufacturer instructions
 - 3.3 Routine adjustments and repairs are made to vessel machinery and equipment according to supervisor and manufacturer instructions
 - 3.4 Faulty vessel machinery and equipment is identified and reported according to workplace 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 specifications
 - 4.4 Paints are mixed in correct proportions according to manufacturer specifications
 - 4.5 Finishing coat is applied using brush, roller or spray gun
- 5 Maintain and store tools, equipment and chemicals**
 - 5.1 Equipment and tools are cleaned, returned to operating order and stored according to supervisor and manufacturer instructions
 - 5.2 Environmental procedures are followed and waste from cleaning and maintenance tasks is collected, treated and disposed of or recycled, according to workplace procedures
 - 5.3 Work area is cleaned and maintained according to workplace requirements
 - 5.4 Malfunctions, faults, wear or damage to tools are reported according to workplace procedures

5.5 Chemicals are stored according to supervisor and manufacturer instructions

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

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

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

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

Equipment includes one or more of the following:

- cleaning supplies
- hand held power tools
- hand tools
- grease guns
- paint and rust prevention material
- personal protective equipment

Personal protective clothing and equipment includes one or more of the following:

- boots
- gloves
- hat/hard hat
- hearing protection
- overalls
- protective eyewear
- respirator or face mask
- safety harness
- sun protection
- wet weather gear

- Work area includes one or more of the following:
- battery room
 - engine room
 - exposed deck area
 - firefighting equipment spaces
 - store room
 - wheelhouse and accommodation area
- Routine adjustments and repairs includes one or more of the following:
- checking cooling system, fuel, grease and oil, battery levels
 - dismantling and assembling
 - inspecting fan belts, leads, lines, connections, air filters, hydraulics, lighting
 - making minor adjustments
 - testing
- Surfaces include one or more of the following:
- external and internal bulkhead
 - funnel
 - hatches and coamings
 - hull
 - masts

Unit Mapping Information

This is a new unit. This unit is equivalent to MARB1001A Assist with routine maintenance of a vessel.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>

Assessment Requirements for MARB001 Assist with routine maintenance of a vessel

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- completing maintenance records
- implementing safe and environmentally responsible work practices
- reading, interpreting and applying manufacturer instructions including all WHS/OHS requirements and data safety sheets (SDS)/material safety data sheets (MSDS)
- recognising faulty equipment
- selecting and using correct tools and equipment for cleaning or maintenance task.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- component parts, operation and routine maintenance requirements of vessel machinery
- environmental and waste management procedures:
 - preventative measures with regard to damage to natural areas caused by servicing, maintenance and cleaning activities
 - safely using and disposing of cleaning and maintenance debris including oil containers, fuel and chemical residues, paint
- equipment cleaning and preservation techniques
- maintenance hazards and problems
- paint types and applications
- principles and procedures of machinery lubrication as they relate to vessel machinery
- procedures for using hand tools for routine maintenance operations
- relevant WHS/OHS and pollution control legislation
- rust treatment
- techniques for maintenance of surfaces including paint, timber, fibre glass, steel and aluminium
- types, characteristics and functions of:
 - equipment/tools used in cleaning and maintenance
 - vessel machinery and equipment
- workplace cleaning and maintenance procedures.

Assessment Conditions

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- tools, equipment, machinery, materials and personal protective equipment currently used in industry
- applicable documentation such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- range of relevant exercises, case studies and/or simulations.

Links

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