



Australian Government

**Assessment Requirements for 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.

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:

- carrying out inspection of:
 - freshwater or bilge or firefighting pumps
 - steering gear
 - navigation lights
 - windlass or winch or capstan
- carrying out maintenance, including:
 - greasing and oiling
 - lifesaving appliances
- completing required records when performing routine remedial, preventative and survey deck maintenance on a vessel
- demonstrating safe and environmentally responsible work practices when performing routine remedial, preventative and survey deck maintenance on a vessel
- following required work schedule according to organisational requirements
- identifying problems when performing deck maintenance on a vessel, including remedial, preventative and survey maintenance
- identifying structural components from ship's drawings and plans, locating on a vessel and ascertaining the relevant regulation governing the structure
- identifying vessel construction material
- reading and interpreting:
 - instructions for performing remedial, preventative and survey deck maintenance on a vessel
 - manufacturer specifications
 - safety data sheets (SDS)/material safety data sheets (MSDS)
- selecting and using relevant tools, equipment and materials according to instructions.

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
- equipment cleaning and preservation techniques
- fire and bilge pumps
- fuel, fresh and ballast water, bilge and fire pumping arrangements
- function of structural components and compliance with conventional maritime design
- inspection and routine maintenance of:
 - corrosion prevention and rectification
 - lifting gear
 - ropes and wires
 - tank sounding and ventilation equipment
- job safety analyses (JSAs) or safe work method statements
- maintenance hazards and associated problems
- maintenance of steering gear
- maintenance procedures required to test and ensure watertight integrity
- maintenance records for a vessel
- nature and causes of corrosion of marine surfaces, structures and available methods of control
- organisational procedures for cleaning and maintenance to ensure operational readiness
- paint types and applications
- pollution control legislation as it relates to maintenance activities
- principal parts of a vessel and basic design methods
- principles and procedures of machinery lubrication as they relate to deck machinery
- procedures for checking deck areas, machinery and fittings of a vessel as part of the planned routine maintenance on a vessel
- procedures for using hand tools for maintenance operations
- procedures to avoid contamination of fuel or drinking water
- relevant work health and safety (WHS)/occupational health and safety (OHS) and personal protective equipment (PPE) requirements
- rust treatment
- safety management system as it relates to planned vessel maintenance
- steering gear arrangements and safety features
- storage principles for paints, chemicals and cleaning agents used in planned maintenance operations
- types, characteristics and functions of:
 - equipment or tools used in cleaning and maintenance
 - vessel machinery and equipment
- use of various construction material and regulations governing structure.

Assessment Conditions

Assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment. As a

minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment. 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.

Practical assessment must occur in a workplace, or realistic simulated workplace, under the normal range of workplace conditions. Simulations and scenarios may be used where situations cannot be provided in the workplace or may occur only rarely, in particular for situations relating to emergency procedures and adverse weather conditions where assessment would be unsafe, impractical or may lead to environmental damage.

Resources for assessment must include access to:

- applicable documentation, such as legislation, regulations, codes of practice, safety management system (SMS), workplace procedures and operational manuals, including:
 - manufacturer specifications
 - SDS/MSDS
 - vessel drawings and plans
- a commercial vessel ≥ 7.5 m in length
- tools, equipment, machinery, materials and relevant PPE currently used in industry.

Links

Companion Volume implementation guides are found in VETNet -

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