



Australian Government

**MARB042 Manage reported defects,
damage, repairs and maintenance of a
vessel**

Release: 1

MARB042 Manage reported defects, damage, repairs and maintenance of a vessel

Modification History

Release 1. This is the first release of this unit of competency in the MAR Maritime Training Package.

Application

This unit involves the skills and knowledge required to implement a planned maintenance system to ensure effective maintenance of a vessel, including assessing reported defects, damages and repairs of a vessel to ensure its seaworthiness.

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

- Master of a commercial vessel Unlimited.

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 Unlimited and to meet regulatory requirements this unit must be delivered consistent with Marine Orders and with the relevant sections of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW).
- Those regulatory requirements include STCW International Maritime Organization (IMO) model course competencies and areas of knowledge, understanding and proficiency, together with the estimated total hours required for lectures and practical exercises. Teaching staff should note that timings are suggestions only and should be adapted to suit individual groups of trainees depending on their experience, ability, equipment and staff available for training.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Define maintenance targets

- 1.1 Compliance documentation relevant to maintaining the vessel is interpreted
- 1.2 Vessel planned maintenance system is interpreted to establish maintenance activities and priorities, according to regulatory and organisational requirements
- 1.3 Current maintenance practices are reviewed to evaluate efficiency, reliability and comparative cost-effectiveness
- 1.4 Maintenance targets are set to ensure compliance and cost-effectiveness

2 Optimise maintenance management

- 2.1 Objectives of maintenance are clearly defined and appropriate maintenance mechanisms are determined
- 2.2 Preventative maintenance activities are forecast, scheduled and matched to resources to ensure work is completed on time and within budget
- 2.3 Optimal cost balance between preventative and corrective maintenance activities is determined
- 2.4 Priority system for preventative and corrective maintenance is developed based on critical analysis to maximise quality outcomes
- 2.5 Maintenance plan is negotiated and agreed in consultation with relevant stakeholders
- 2.6 Monitoring and reporting arrangements for maintenance activities are established and documented according to organisational procedures
- 2.7 Risk management plan to identify, assess and control risks is incorporated into maintenance plan according to regulatory and organisational requirements

3 Organise support processes

- 3.1 Resource requirements are determined and organised according to the maintenance plan
- 3.2 Targets and milestones are identified and linked to the achievement of outcomes according to the maintenance

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 MARB020 Manage repairs and maintenance of a vessel 500 gross tonnage or more.

Links

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