



Australian Government

**MARD005 Manage operations and
maintenance on vessels limited by tonnage
or near coastal operations**

Release: 2

MARD005 Manage operations and maintenance on vessels limited by tonnage or near coastal operations

Modification History

Release 2. This is the second release of this unit of competency in the MAR Maritime Training Package.

- Minor statement changes in unit Application.

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 manage the operations of a commercial vessel limited by tonnage or near coastal operations.

It includes administration of vessel stability, cargo operations and planned maintenance system in compliance with Australian and international regulations and guidelines, protection of the marine environment and the safety of the vessel and people on board.

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

- Master up to 100 metres Near Coastal
- Master up to 500 gross tonnages (GT).

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 up to 100 metres Near Coastal as specified in Marine Order 505.

Seafarers seeking certification should check with AMSA.

Pre-requisite Unit

Not applicable.

Competency Field

D – Administration and Human Resources

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 Manage maintenance of vessel stability and safety parameters

- 1.1** Vessel dynamic stability is interpreted and analysed
- 1.2** Vessel transverse and longitudinal stability is correctly maintained in normal and adverse operational conditions
- 1.3** Vessel safety parameters are correctly maintained within normal operational limits during cargo operations

2 Administer planning of cargo operations on vessel limited by tonnage or near coastal operations

- 2.1** Impact of cargo operations on vessel stability is identified and managed
- 2.2** Draft survey is conducted and the calculated results used
- 2.3** Appropriate procedures are administered for all cargo operations

3 Administer planned maintenance system

- 3.1** Vessel routine preventative maintenance, testing and inspection plan is correctly interpreted and implemented
- 3.2** Arrangements are made for maintenance activities to be carried out at required times
- 3.3** Maintenance materials are obtained
- 3.4** Repairs to vessel hull or equipment and/or repair or replacement of equipment or components are organised according to procedures

4 Dock or slip vessel limited by tonnage or near coastal operations

- 4.1** Type of slipway, dock or vessel lifting facility is identified and suitability for type of hull assessed
- 4.2** Hull data is correctly interpreted and recorded
- 4.3** Appropriate plan is prepared for procedures to be taken onboard vessel prior to, during and on completion of proposed slipping or docking operations

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| | 4.4 | Cradle is correctly prepared prior to slipping of vessel |
| | 4.5 | Appropriate precautions are taken prior to slipping and refloating of vessel and when shoring/supporting vessel |
| | 4.6 | Vessel is correctly refloated after slipping and maintenance operations |
| 5 | Carry out inspection and maintenance procedures on vessel limited by tonnage or near coastal operations | |
| | 5.1 | Inspections of vessel hull, equipment and components are carried out according to company maintenance schedules and vessel manufacturer instructions |
| | 5.2 | Deterioration of vessel structure and fittings are identified and appropriate maintenance action is initiated according to work health and safety (WHS)/occupational health and safety (OHS) and pollution control requirements, company procedures and manufacturer instructions |
| | 5.3 | Lubricants, marine preservatives or finishes are applied correctly using appropriate application equipment according to WHS/OHS requirements, company procedures and manufacturer instructions |
| | 5.4 | Problems in application of lubricants, marine preservatives, finishes and other maintenance materials and chemicals are identified and reported, and appropriate remedial action is initiated |
| | 5.5 | Records of maintenance and lubrication work carried out are completed according to procedures |
| 6 | Administer correct selection and use of maintenance equipment and materials | |
| | 6.1 | Tools and equipment are correctly identified and used according to WHS/OHS requirements |
| | 6.2 | Defective equipment and materials are identified and reported |

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 MARD002 Manage operations and maintenance on vessels limited by tonnage or near coastal operations.

Links

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