



Australian Government

MARB060 Slip or dock a vessel and maintain hull on a vessel up to 100 metres

Release: 1

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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 slip or dock a vessel of up to 100 metres and carry out all required maintenance procedures to manage hull deterioration and maintain the watertight integrity of the vessel.

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

- Master up to 24 metres Near Coastal
- Master up to 45 metres Near Coastal
- Master 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, Master up to 24 metres Near Coastal and Master up to 45metres Near Coastal as specified in Marine Order 505.

Seafarers seeking certification should check with AMSA.

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 Safely dock vessel into dry dock or slipway

- 1.1** Slipway or dry dock particulars are assessed for suitability for dry docking or slipping vessel
- 1.2** Ship supports, scaffolding and other service systems are assessed for compatibility to dry dock or slipway particulars
- 1.3** Plan is prepared for docking or slipping vessel
- 1.4** Cradle, supports and/or slings are assessed for suitability for dry docking or slipping vessel
- 1.5** Vessel is made ready for slipping according to organisational and dry dock requirements
- 1.6** Vessel is slipped according to environmental safe work practices and safety instructions

2 Inspect underwater hull, equipment and fittings

- 2.1** Checks of vessel hull, equipment and fittings are carried out according to maintenance schedules and vessel manufacturer instructions
- 2.2** Deterioration in vessel structure, equipment and fittings is identified
- 2.3** Checks on watertight integrity of vessel are carried out according to organisational procedures and safety regulations
- 2.4** Damage to watertight integrity is identified and appropriate action is determined
- 2.5** Listed work plan is prepared to rectify all identified faults
- 2.6** Surveyor or authorised person is engaged to ensure appropriate certification can be issued or endorsed on completion of work, as required

3 Select and use maintenance equipment and materials

- 3.1** Tools and equipment are correctly identified, selected and used
- 3.2** Maintenance materials are obtained, prepared and used according to organisational procedures and manufacturer instructions

- 3.3 Environmental procedures are followed and waste from cleaning and maintenance tasks is collected, treated and disposed of, or recycled, according to organisational procedures
 - 3.4 Malfunctions, faults, wear or damage to tools are reported according to organisational procedures
 - 3.5 Equipment and tools are cleaned, returned to operating order and stored according to organisational procedures and manufacturer instructions
 - 3.6 Chemicals are used and stored according to organisational procedures and manufacturer instructions
 - 3.7 Paint is used and stored according to organisational procedures and manufacturer instructions
- 4 **Carry out required maintenance and repairs to hull, equipment and fittings**
 - 4.1 Suitable personal protective equipment (PPE) is selected and used according to work health and safety (WHS)/occupational health and safety (OHS) requirements
 - 4.2 Permits for hot work, confined space entry and other high risk activities are completed according to organisational and regulatory requirements
 - 4.3 Faults and imperfections in painted surfaces are repaired according to organisational procedures
 - 4.4 Weathered surfaces are restored using cleaners and liquid abrasives
 - 4.5 Lubricants are applied to moving parts of vessel underwater equipment according to manufacturer instructions
 - 4.6 Corrosion control is carried out according to organisational procedures and manufacturer instructions
 - 4.7 Action to ensure watertight integrity is completed
 - 4.8 Routine adjustments are made to equipment and fittings according to manufacturer instructions
 - 4.9 Faulty vessel machinery and fittings are identified and replacement procedures are implemented
- 5 **Supervise crew completing maintenance**
 - 5.1 Workload is organised in order of priority, taking into

and repairs to hull, equipment and fittings	consideration all listed work, including survey work
	5.2 Maintenance tasks are allocated to appropriate crew members with consideration of individual experience and qualifications
	5.3 Crew members are clearly briefed on their responsibility, maintenance tasks and WHS/OHS requirements
	5.4 Guidance is provided appropriate to the maintenance task and individual experience
	5.5 Completed work is checked to ensure maintenance is performed according to dry dock plan and organisational procedures
6 Complete duties prior to re-floating	6.1 Final internal inspection of vessel is conducted to ensure all listed work is completed to a satisfactory standard
	6.2 External inspection of hull and underside is carried out to ensure all listed work is completed to a satisfactory standard
	6.3 All tank plugs that have been drawn are replaced
	6.4 Crew are instructed on activities to be completed to make vessel ready for sailing
	6.5 Check is conducted to ensure a full set of tank soundings has been taken and the distribution of freshwater, fuel and lubricating oil are according to soundings taken on arrival
	6.6 Tank quantities are applied to complete stability check to ensure that the vessel has an acceptable Metacentric Height (GM) once the vessel floats clear of the keel blocks or slipway
	6.7 Hatch covers are closed and watertight integrity of uppermost deck is assured
	6.8 Anchors and cables are heaved up and stowed correctly, and all shore pipelines and powerlines are disconnected
	6.9 Confirmation that re-floating can proceed is agreed with person in charge of re-floating operation

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 MARB030 Slip or dock a vessel and maintain hull on a vessel up to 80 metres.

Links

Companion Volume Implementation Guides are found in VETNet -

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