



Australian Government

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

Application

This unit involves the skills and knowledge required to slip or dock a vessel of up to 80 m 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 on commercial vessels <35 m in length within the exclusive economic zone (EEZ) or
- master on vessels <80 m in inshore waters or
- master on commercial vessels <24 m in length in inland waters; and
- chief mate or deck watchkeeper on vessels <80 m within the EEZ.

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 <24m NC, Mate <80m NC and Master <35m NC as defined in the National Standard for Commercial Vessels (NSCV) Part D. The AMSA mandated practical assessment (AMPA) is a requirement for AMSA certification as a Master (Inland waters) and Master <24 m NC.

The Australian Maritime Safety Authority (AMSA) mandated practical assessment (AMPA) will cover a range, but not all, of the requirements identified in the Performance Evidence and Knowledge Evidence. The AMPA shall be undertaken in accordance with its instructions. Slipping or docking may be done as a group exercise. Where this is not possible, observation of slipping or docking of a vessel must occur.

Assessors of AMPA must hold as a minimum:

- a current certificate of competency issued under Marine Safety (Domestic Commercial Vessel) National Law Act 2012 at the same level as the qualification being assessed with at least 12 months' relevant sea service, or
- a relevant seafarer certificate, as master, engineer or deck officer, issued under the Navigation Act 2012.

Pre-requisite Unit

Not Applicable

Competency Field

B – Equipment Checking and Maintenance

Unit Sector

Not Applicable

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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 and repairs to hull, equipment and fittings**
- 5.1 Workload is organised in order of priority, taking into 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 MARB005 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>