



Australian Government

MEM25014 Perform marine slipping operations

Release: 1

MEM25014 Perform marine slipping operations

Modification History

Release 1. Supersedes and is equivalent to MEM25014B Perform marine slipping operations

Application

This unit of competency defines the skills and knowledge required to perform slipping operations on marine vessels, including work/pleasure craft and yachts appropriate to the capacity of the slipping facility.

Where travel lifts, forklifts and/or cranes are required to be used unit MEM11010 Operate mobile load shifting equipment or other appropriate units should also be selected.

Where boat is to be moored using the vessel's engine or with the assistance of a work boat unit MEM50009 Safely operate a mechanically powered recreational boat should be selected.

Where skills for drawing interpretation, marking out and constructing structures for slipping are required appropriate units should also be selected.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Band: A

Unit Weight: 2

Pre-requisite Unit

MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM18001	Use hand tools
MEM18002	Use power tools/hand held operations

Competency Field

Marine craft construction

Elements and Performance Criteria

Elements describe the essential outcomes.

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

1	Determine job requirements	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times
		1.3	Use appropriate personal protective equipment (PPE) in accordance with SOPs
		1.4	Determine set-up of slipping facility to suit vessel in accordance with organisational and legislative requirements
2	Set up slipping facilities	2.1	Take measurements to suit hull structure, where applicable
		2.2	Position hull support bearers to suit hull structure, where applicable
3	Perform hauling out procedures	3.1	Position slipping facilities to suit slipping application
		3.2	Position vessel to suit slipping set-up
		3.3	Select vessel retaining ropes and secure in accordance with slipping facility and vessel retaining requirements
		3.4	Ground/level vessel for positioning of hull support
		3.5	Position hull support mechanics
		3.6	Carry out safety checks of vessel stability
4	Perform launching procedures	4.1	Check vessel support and slip devices for safety
		4.2	Apply pre-launch safety checks for vessel seaworthiness
		4.3	Carry out launch practices according to standard procedure and organisational requirements
		4.4	Re-position hull support devices to prevent obstruction

Elements describe the essential outcomes.

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

during vessel removal

- 4.5 Moor vessel using appropriate restraints, where applicable

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

- Vessel support and slip devices include one (1) or more of the following:**
- slings
 - shoring
 - cables
 - stays
 - blocks
 - chocks

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>

Assessment Requirements for MEM25014 Perform marine slipping operations

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting specifications, plans and drawings to identify measurements relevant to positioning of hull structure on slipping facilities
- setting up slipping facilities to accommodate vessel and positioning relevant support bearer/blocks and arms according to design, dimensions, shape and weight
- operating slip and slipping machinery and manoeuvring vessel in accordance with the set-up of slipping facility and securing vessel in preparation for slipping
- inspecting vessel when slipped to ensure adequacy of hull support and adjusting and fixing support mechanisms, as required
- cleaning site and preparing vessel for launching, including performing safety checks to ensure vessel stability and watertight integrity
- positioning hull supports, including arms and slings to allow clear passage for removal of vessel, and mooring vessel in accordance with requirements of the mooring facility.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- types of slipways and operational procedures
- interpretation of ships/boats drawings, slipping specifications or instructions
- safety and legislative requirements for slipping and launching vessels
- different types of hull structures, dimensions, vessel weights and appropriate slipping arrangements
- methods of supporting/securing vessel ready for slipping
- methods of supporting hull during and after slipping
- procedures for operating slipway and slipway machinery
- procedures for positioning slip and manoeuvring vessels
- techniques for trimming and final securing of slipped vessel and disengaging slipway machinery

- knots, lashings and their applications
- pre-launch preparation requirements and safety checks to be performed
- checks to ensure stability and watertight integrity
- procedures used in launching vessels and mooring methods
- procedures for recovering and securing slip.

Assessment Conditions

- Assessors must:
 - have vocational competency in performing marine slipping operations at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications
- 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.

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