



Australian Government

MEM50007 Check operational capability of sails and sail operating equipment

Release: 1

MEM50007 Check operational capability of sails and sail operating equipment

Modification History

Release 1. Supersedes and is equivalent to MEM50007B Check operational capability of sails and sail operating equipment

Application

This unit of competency defines the skills and knowledge required to conduct basic checks on vessel sail systems of recreational vessels in both land and water environments and relates to workplaces in which vessels are built, repaired, stored, sold and transported.

The scope of the unit is limited to identifying and reporting on the general condition of the sails and their equipment and identifying potential problems that can be easily discerned and includes basic operational checks similar to those routinely performed by machinery or vehicle operators.

This unit does not include an assessment of seaworthiness or durability and the information would be reported to a supervisor or manager who would determine any further action.

Where operational checking of other vessel components is required unit MEM50006 Check operational capability of marine craft should also be selected.

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

Band: E

Unit Weight: 0

Pre-requisite Unit

MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM50002	Work safely on marine craft

Competency Field

Boating services

Elements and Performance Criteria

Elements describe the essential outcomes.

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

1	Inspect mast(s), boom(s), spars and fittings	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times
		1.3	Inspect masts, booms and spars for security and integrity
		1.4	Inspect fixed rigging for security and excessive corrosion
		1.5	Check fittings and mountings for security and excessive corrosion
2	Inspect sail condition	2.1	Inspect sails for tears, rot and deterioration
		2.2	Inspect sail runners, cleats and reinforcing points
		2.3	Complete reports of sails and fittings condition on approved workplace documentation and/or report verbally
		2.4	Stow sails stowed in a correct manner after inspection
3	Check halyards, sheets, ropes and winches	3.1	Inspect halyards, sheets, ropes, cables and winches for security and integrity
		3.2	Secure halyards, sheets, ropes and cables and/or stow correctly
		3.3	Check winches and capstans for operation, lubrication and condition
		3.4	Check fittings and mountings for security and condition
		3.5	Complete all reports and document all findings in accordance with workplace procedures

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.

Masts, booms and spas include one (1) or more of the following:

- wood
- aluminium
- composite materials

Halyards, sheets, ropes, cables and winches include the following:

- halyards
- ropes
- wires
- cables
- shackles
- turning blocks
- electric and hand powered winches
- self-steer systems
- self-furling sail systems

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM50007B Check operational capability of sails and sail operating equipment

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 MEM50007 Check operational capability of sails and sail operating equipment

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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
- checking the general condition of masts, booms and spars for security and integrity
- checking the general condition of sails for tears, rot and deterioration in accordance with procedures
- checking the general condition of sail hoisting and trimming equipment for security and integrity
- stowing sails and ropes in a correct manner
- completing all reports in accordance with procedures.

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
- general methods of determining condition of masts, booms and spars
- methods of determining condition of sails and hoisting/trimming equipment in terms of whether they operate or not, are frayed or showing signs of distress
- information collation methods to provide a verbal and/or written report.

Assessment Conditions

- Assessors must:
 - have vocational competency in checking operational capability of sails and sail operating equipment 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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