



Australian Government

MEM50006 Check operational capability of marine craft

Release: 1

MEM50006 Check operational capability of marine craft

Modification History

Release 1. Supersedes and is equivalent to MEM50006B Check operational capability of marine craft

Application

This unit of competency defines the skills and knowledge required to conduct basic checks on the operational condition of engine and sail powered recreational vessels in or out of the water 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 that a vessel is not of its 'normal' appearance at rest on its mooring or berth, or after being brought out of the water 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 but it does cover watertight integrity and the information would be reported to a supervisor or manager who would determine any further action.

Where operational checking of sails and sails systems is required unit MEM50007 Check operational capability of sails and sail operating equipment 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.

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|---|--|-----|---|
| 1 | Inspect hull, fittings and safety equipment | 1.1 | Follow standard operating procedures (SOPs) |
| | | 1.2 | Comply with work health and safety (WHS) requirements at all times |
| | | 1.3 | Inspect hull bungs and sea cocks for security and integrity |
| | | 1.4 | Check hull condition for holes, cracks and deterioration, and extent of marine growth |
| | | 1.5 | Check fittings and mountings for security and excessive corrosion |
| | | 1.6 | Complete reports of hull and fitting condition on approved workplace documentation and/or report verbally |
| | | 1.7 | Check vessel safety equipment availability against identified requirements and determine condition and report, as required |
| 2 | Check operating systems | 2.1 | Check propulsion, electrical power (including battery), steering, cable and line handling and domestic systems for correct fluid levels, fuel state, lubrication, and visually check for mechanical condition and leaks |
| | | 2.2 | Check communication equipment for operational status |
| 3 | Inspect cabin and domestic systems | 3.1 | Inspect cabin fittings for security and integrity |
| | | 3.2 | Check cabin and fittings for holes, cracks and deterioration |
| | | 3.3 | Check fittings and mountings for security and condition |
| | | 3.4 | Operate domestic systems to ensure serviceability |
| | | 3.5 | Complete reports of cabin and fittings condition on approved workplace documentation and/or report verbally |

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.

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|--|--|
| Hull and fittings include the following: | <ul style="list-style-type: none">• surface finish and general condition of the hull inside and out as well as any fittings both above and below the water line where visible |
| Safety equipment includes one (1) or more of the following: | <ul style="list-style-type: none">• flotation devices• communication systems including lights• flares• pumps and bailers• anchor• halyards and chains• emergency position-indicating radio beacons (EPIRBs)• fire extinguishers• torches• lifelines |
| Operating systems include the following: | <ul style="list-style-type: none">• mechanical propulsion systems• communication systems• steering systems• pumping systems• winches and cable handling equipment• ultra low voltage electrical systems operating at 12 or 24 volts d.c. |
| Domestic systems include one (1) or more of the following: | <ul style="list-style-type: none">• water supply and heating• air conditioning and heating• lighting• cooking• refrigeration• sewage and sullage• entertainment systems |

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM50006B Check operational capability of marine craft

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 MEM50006 Check operational capability of marine craft

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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 hulls, decks, cabins fixtures and fittings and safety equipment
- checking operational condition of operating and domestic systems
- checking engines and other equipment for leaks and performing visual inspection of batteries
- checking and correcting fluid levels and lubrication
- 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 hulls, decks, cabins, fittings and fixtures and safety equipment
- methods of determining condition of operating and domestic systems in terms of whether they operate as required
- battery inspection requirements
- information collation methods to provide a written and/or verbal report.

Assessment Conditions

- Assessors must:
 - have vocational competency in checking operational capability of marine craft 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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