



Australian Government

MEM50005 Refuel vessels

Release: 1

MEM50005 Refuel vessels

Modification History

Release 1. Supersedes and is equivalent to MEM50005B Refuel vessels

Application

This unit of competency defines the skills and knowledge required to refuel recreational vessels and appliances in both land and water environments and relates to workplaces in which vessels are built, repaired, stored, sold and transported.

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
MEM50003	Follow work procedures to maintain the marine environment

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	Match fuels and additives to marine applications	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times
		1.3	Select and use appropriate personal protective equipment (PPE) in accordance with SOPs

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.4 Select fuels to match the engine or appliance 1.5 Consider alternative fuel applications 1.6 Select fuel additives and lubricants based on vessel/appliance use and manufacturer requirements
2 Identify fuel handling risk, precautions and regulatory requirements	2.1 Identify dangers of volatile fuel liquids and vapours 2.2 Identify precautions for minimising risks associated with volatile liquids in workplace procedures 2.3 Identify procedures to prevent build up of volatile vapours and gases 2.4 Identify regulatory requirements for refilling portable fuel containers
3 Identify safety and environmental requirements for fuel refill areas	3.1 Use correct locations for refuelling activities 3.2 Apply workplace strategies/procedures to limit danger from static electricity and other sources of ignition 3.3 Identify protection systems that provide physical barriers to minimise accidental collision with fuelling facilities and use to prevent spills entering drains or the water environment 3.4 Use appropriate ventilation 3.5 Identify signage for public safety needs and Hazchem requirements 3.6 Identify emergency stops and shut-off devices and describe activation methods
4 Refill fuel containers	4.1 Refill portable liquid fuel tanks and appliances 4.2 Refill gas cylinders 4.3 Refill on-board fuel tanks 4.4 Check fuel levels for each method of storage 4.5 Identify emergency procedures for leaks, spills and fire 4.6 Replace gas cylinders if required

Elements describe the essential outcomes.

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

5 Contain and clean up spills

- 5.1 Identify potential for spills
- 5.2 Follow procedures for notification of spills
- 5.3 Follow workplace procedures to contain spill and minimise any environment or safety dangers
- 5.4 Identify clean up equipment and use

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.

Fuels include one (1) or more of the following:

- petrol (gasoline), including premixed two stroke fuel
- diesel (distillate)
- kerosene
- methylated spirits
- lighter fluid/white spirits
- liquefied petroleum gas (LPG)

Appliances include one ((1) or more of the following:

- stoves
- refrigerators
- heaters
- lights

Replacement of gas cylinders includes the following:

- turn off appliances and pilot light
- vent gas lines in a safe manner after closing gas valves
- leak test fittings after fitting cylinders
- refit and adjust bottle restraining devices
- following emergency procedures for leaks and fire

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.

PPE includes one (1) or more of the following:

- goggles/face shields
- masks or respirators
- gloves and appropriate clothes/garments

Contain spill includes one (1) or more of the following:

- bunding and drain covers
- chemical dispersal agents
- absorptive materials
- containment booms and portable bunding

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>