



Australian Government

MEM50001 Classify recreational boating technologies and features

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM50001B Classify recreational boating techniques and features

Application

This unit of competency defines the skills and knowledge required to recognise vessel features, fittings and fixtures; correctly identify power and transmission systems; describe system operating purpose; and use appropriate terminology.

This unit applies to the identification of vessel types and to the classification of vessels according to their main features and relates to recreational vessels and covers engine and sail powered as well as rowed vessels and the depth of knowledge required is sufficient to be able to identify one vessel from another and be able to describe its method of propulsion where applicable.

Detailed features of hulls, power plants and trailers are covered by other competencies.

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

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	Identify vessel configurations used in boating	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
	applications	1.3	Identify hull forms and superstructure features
		1.4	Match hull designs to normal vessel application
		1.5	Identify construction materials
2	Identify and describe the functions of the major systems of a recreational vessel and trailer	2.1	Identify systems used for vessel propulsion, steering, navigation, communication, services and appliances and explain functions
		2.2	Identify trailer components and explain functions
3	Confirm vessel origins	3.1	Locate vessel identification plates and registration tags
		3.2	Locate and record engine number, model designation and other details
		3.3	Use identification data to confirm vessel year of manufacture, refurbishment (and/or registration)
4	Identify configuration of motorised propulsion systems	4.1	Locate and categorise vessel power plant(s) for fuel system, number and configuration of cylinders
		4.2	Identify engine cooling and control systems and categorise
		4.3	Identify and categorise engine lubricating systems
		4.4	Categorise vessel propulsion (transmission) system for type and operation
		4.5	Describe operating cycles and cylinder configuration for 2 stroke, 4 stroke, diesel and petrol powered engines

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.

- Trailer components include one (1) or more of the following:**
- winching
 - coupling
 - load securing
 - braking
 - suspension
 - electrical systems

- Construction materials include one (1) or more of the following:**
- glass reinforced plastics
 - composite materials
 - aluminium
 - steel
 - timber:
 - clinker
 - carvel
 - cold moulded
 - plywood sheeted

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>