



**Australian Government**

# **MEM30719 Certificate III in Marine Craft Construction**

**Release 2**

# MEM30719 Certificate III in Marine Craft Construction

## Modification History

Release 2. Mandatory training contract pathway added.

Release 1. Supersedes and is equivalent to MEM30705 Certificate III in Marine Craft Construction.

## Qualification Description

This qualification defines the skills and knowledge required of a marine craft construction tradesperson within the marine craft construction industry. The qualification has been specifically developed for apprentices in the above trade.

This qualification must be undertaken through a Training Contract or through formal trade recognition assessment processes.

The skills associated with this qualification are intended to apply to a wide range of marine craft construction work, including undertaking manufacturing and repairs of boats in fibre-reinforced plastics, timber and metal and marine/boat yard operations, fitting out of internal and external components of vessels and installation of engineering drive systems.

This qualification is designed to provide an industry recognised skills profile related to trade work as in Marine Craft Construction.

Assessment of some units of competency must, where indicated, include evidence of the candidate's performance in a functioning workplace where there is a sufficient range of appropriate tasks and materials to cover the scope of application of those units. All outcomes must reflect the standard of performance inherent in the job.

No licensing, legislative or certification requirements apply to this qualification at the time of publication. However, in some jurisdictions units in this qualification may relate to licensing or regulatory requirements. Local regulations should be checked.

## Entry Requirements

There are no entry requirements for this qualification.

## Packaging Rules

To be awarded the MEM30719 Certificate III in Marine Craft Construction, units of competency to the value of 96 points must be achieved, chosen as outlined below:

- core units of competency listed below (totalling 33 points)
- elective units of competency to a minimum value of 40 points from Group A
- elective units of competency to a maximum value of 23 points from Group B electives to bring the total value to 96 points.

Appropriate Group B elective units to the value of 8 points may be chosen from this Training Package, other endorsed Training Packages and accredited courses where those units are available for inclusion at Certificate III. Only select units that would be suitable for occupational outcomes in a marine craft construction trade environment.

Registered Training Organisations (RTOs) must seek a determination from the industry parties in respect of the allocation of points values for units of competency drawn from other Training Packages or accredited courses. Determination of points requests are to be submitted to the industry parties through Innovation and Business Skills Australia (IBSA) Manufacturing. Refer to the MEM Companion Volume Implementation Guide for information on determination of unit points values.

#### Prerequisites

Points associated with prerequisites count towards the total. Units with prerequisite requirements are marked with an asterisk (refer to the individual units for details). All prerequisites are included in the units listed.

#### Core units of competency

Unit code	Unit title	P	Pre req
MEM09002	Interpret technical drawing	4	*
MEM11011	Undertake manual handling	2	*
MEM12023	Perform engineering measurements	5	*
MEM12024	Perform computations	3	*
MEM13015	Work safely and effectively in manufacturing and engineering	2	
MEM14006	Plan work activities	4	*
MEM16006	Organise and communicate information	2	*
MEM16008	Interact with computing technology	2	*
MEM17003	Assist in the provision of on-the-job training	2	*
MEM18001	Use hand tools	2	*
MEM18002	Use power tools/hand held operations	2	*
MSMENV272	Participate in environmentally sustainable work practices	3	

## Elective units of competency

## Group A

Unit code	Unit title	P	Pre req
MEM04018	Perform general woodworking machine operations	4	*
MEM07001	Perform operational maintenance of machines/equipment	2	*
MEM07024	Operate and monitor machine and process	4	*
MEM08002	Pre-treat work for subsequent surface coating	4	*
MEM08011	Prepare surfaces using solvents and/or mechanical means	2	*
MEM08014	Apply protective coatings (basic)	4	*
MEM09021	Interpret and produce drawings of curved 3-D shapes	4	*
MEM12007	Mark off/out structural fabrications and shapes	4	*
MEM13003	Work safely with industrial chemicals and materials	2	*
MEM13004	Work safely with molten metals/glass	2	*
MEM25001	Apply fibre-reinforced materials	2	*
MEM25002	Form and integrate fibre-reinforced structures	4	*
MEM25003	Set up marine vessel structures	4	*
MEM25004	Fair and shape surfaces	2	*
MEM25005	Construct and assemble marine vessel timber components	8	*
MEM25006	Undertake marine sheathing operations	2	*
MEM25007	Maintain marine vessel surfaces	4	*
MEM25008	Repair marine vessel surfaces and structures	4	*
MEM25009	Form timber shapes using hot processes	2	*
MEM25010	Perform fitout procedures	4	*
MEM25011	Install marine systems	8	*
MEM25012	Install and test operations of marine auxiliary systems	6	*

<b>Unit code</b>	<b>Unit title</b>	<b>P</b>	<b>Pre req</b>
MEM25013	Produce three-dimensional plugs/moulds	12	*
MEM25014	Perform marine slipping operations	2	*
MEM25015	Assemble and install equipment and accessories/ancillaries	2	*
MEM50002	Work safely on marine craft	1	*
MEM50003	Follow work procedures to maintain the marine environment	1	*
MEM50004	Maintain quality of environment by following marina codes	1	*
MEM50009	Safely operate a mechanically powered recreational boat	2	*

## Group B

<b>Unit code</b>	<b>Unit title</b>	<b>P</b>	<b>Pre req</b>
MEM03002	Perform precision assembly	4	*
MEM05005	Carry out mechanical cutting	2	*
MEM05006	Perform brazing and/or silver soldering	2	*
MEM05007	Perform manual heating and thermal cutting	2	*
MEM05009	Perform automated thermal cutting	2	*
MEM05012	Perform routine manual metal arc welding	2	*
MEM05049	Perform routine gas tungsten arc welding	2	*
MEM05050	Perform routine gas metal arc welding	2	*
MEM08004	Finish work using wet, dry and vapour deposition methods	4	*
MEM09003	Prepare basic engineering drawing	8	*
MEM09009	Create 2-D drawings using computer-aided design system	8	*
MEM10006	Install machine/plant	4	*
MEM11001	Erect/dismantle scaffolding and equipment	4	*

Unit code	Unit title	P	Pre req
MEM11010	Operate mobile load shifting equipment	4	*
MEM11022	Operate fixed/moveable load shifting equipment	4	*
MEM12001	Use comparison and basic measuring devices	2	*
MEM13001	Perform emergency first aid	1	*
MEM13002	Undertake work health and safety activities in the workplace	3	*
MEM15004	Perform inspection	2	*
MEM16004	Perform internal/external customer service	2	*
MEM16005	Operate as a team member to conduct manufacturing, engineering or related activities	2	*
MEM18003	Use tools for precision work	4	*
MEM18006	Perform precision fitting of engineering components	6	*
MEM18009	Perform precision levelling and alignment of machines and engineering components	4	*
MEM18055	Dismantle, replace and assemble engineering components	3	*
MEM26001	Lay up composites using open moulding techniques	6	*
MEM26006	Mark and cut out sheets for composite use	4	*
MEM26007	Select and use reinforcing appropriate for product	4	*
MEM26008	Select and use resin systems appropriate for product	4	*
MEM26009	Select and use cores and fillers appropriate for product	2	*
MEM26010	Store and handle composite materials	2	*

## Qualification Mapping Information

Release 2. Supersedes and is equivalent to MEM30719 Certificate III in Marine Craft Construction (Release 1).

Release 1. Supersedes and is equivalent to MEM30705 Certificate III in Marine Craft Construction.

## **Links**

The MEM Metal and Engineering Training Package Companion Volume Implementation Guide is available from VETNet -

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