



Australian Government

Department of Education, Employment and Workplace Relations

MEM30705 Certificate III in Marine Craft Construction

Release: 1

MEM30705 Certificate III in Marine Craft Construction

Modification History

Not Applicable

Description

Not Applicable

Pathways Information

Not Applicable

Licensing/Regulatory Information

Not Applicable

Entry Requirements

Not Applicable

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> • Read, interpret, follow and communicate information on written job instructions, specifications, standard operating procedures, charts, lists, drawings and other applicable reference documents • Produce sketches, diagrams, charts or graphs and 3D shapes (lofting) • Check and clarify task-related information • Recognise and use common marine terminology • Liaise with appropriate authorities
Teamwork	<ul style="list-style-type: none"> • Work alone or as part of a team • Contribute to a group effort in order to plan and carry out work • Identify work roles, communicate and cooperate with others
Problem-solving	<ul style="list-style-type: none"> • Undertake numerical operations, geometry and calculations/formulae (including addition, subtraction, multiplication, division, fractions and decimals, percentages and proportions, simple ratios and averages) • Use appropriate measuring techniques • Inspect quality of own or other employee's work • Assess operation and condition of components against specifications or manufacturer's requirements • Translate designs into practical outcomes • Use diagnostic skills and tests to identify and determine causes of faults, including interpretation of in-built fault indicators and error codes
Initiative and enterprise	<ul style="list-style-type: none"> • Be capable of applying the competency in new and different situations and contexts • Identify actual and foreseeable workplace hazards during course of work • Implement OHS risk management procedures • Modify work plan to overcome unforeseen difficulties or developments that occur as work progresses • Economise material use and minimise waste and negative environmental impacts • Participate in improvement procedures including process, quality and internal/external customer/supplier relationships
Planning and organising	<ul style="list-style-type: none"> • Plan, prioritise and sequence work operations • Select and use planning techniques and tools

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

	<ul style="list-style-type: none"> • Organise and analyse information relevant to work • Set up jobs prior to commencement of work including selection of appropriate materials and adjustment of equipment • Inspect and prepare worksite
Self-management	<ul style="list-style-type: none"> • Carry out work safely and in accordance with company policy and procedures, manufacturer's recommendations and legislative requirements • Monitor performance of operation or quality of product or service to ensure customer satisfaction • Take responsibility for work outcomes • Apply techniques, procedures, tools and equipment for compliance with site or manufacturers' specifications.
Learning	<ul style="list-style-type: none"> • Check and clarify task related information with appropriate personnel or technical adviser • Identify customers' requirements with respect to the operation or quality of the product or service • Assess and modify own work practices • Use manuals, online help and other reference materials such as catalogues/lists as required • Maintain current knowledge of applicable standards, legislation, environmental guidelines, codes of practice and product/process developments • Assist with on the job training and assessment
Technology	<ul style="list-style-type: none"> • Select and use appropriate tools, equipment, materials and machines • Select and use appropriate measuring/testing devices • Navigate technology to access /input /store/retrieve/save and produce information/data using appropriate software applications • Apply knowledge of marine systems and engineering principles, techniques, procedures, tools and equipment to achieve the required outcome • Use CAD equipment

Packaging Rules

The minimum requirements for achievement of the Certificate III in Marine Craft Construction are:

- completion of all core units of competency listed below, and

- completion of Group A Marine Craft Construction stream units from the list below to the value of at least 40 points, and
- completion of units from Group B - Certificate III Trade specialisation units listed in Appendix 1, Volume 1 of the Training Package, to bring the total value to at least 73 points

Points associated with prerequisites count towards the total (refer to units and prerequisites listing in Appendix 2, Volume 1).

Appropriate Group B elective units to the value of 16 points may be chosen from other endorsed Training Packages and accredited courses where those units are available for inclusion at Certificate III. Note that the elective units listed below include all of the units that are approved for selection from the MEM Training Package for use in this qualification. This meets the NQC requirement that one sixth of the total units must be able to be selected from other qualifications in the same Training Package.

Registered Training Organisations must seek a determination from Manufacturing Skills Australia in respect of the allocation of points values for units of competency drawn from other Training Packages or accredited courses.

Only select units that would be suitable for Marine Craft Construction occupational outcomes

Additional qualification descriptors

There are no approved additional descriptors for this qualification.

Core Units

- select all of the units from this list

Unit code	Unit title
MEM12023A	Perform engineering measurements
MEM12024A	Perform computations
MEM13014A	Apply principles of occupational health and safety in the work environment
MEM14004A	Plan to undertake a routine task
MEM14005A	Plan a complete activity
MEM15002A	Apply quality systems
MEM15024A	Apply quality procedures
MEM16006A	Organise and communicate information
MEM16007A	Work with others in a manufacturing, engineering or related environment

Unit code	Unit title
MEM16008A	Interact with computing technology
MEM17003A	Assist in the provision of on the job training
MSAENV272B	Participate in environmentally sustainable work practices

Elective Units

Group A - Marine Craft Construction stream units

- select units from this list to the value of at least 40 points

Unit code	Unit title	P
MEM04018B	Perform general woodworking machine operations	4
MEM07001B	Perform operational maintenance of machines/equipment	2
MEM07024B	Operate and monitor machine/process	4
MEM08002C	Pre-treat work for subsequent surface coating	4
MEM08011B	Prepare surfaces using solvents and/or mechanical means	2
MEM08014B	Apply protective coatings (basic)	4
MEM09002B	Interpret technical drawing	4
MEM09021B	Interpret and produce curved 3-dimensional shapes	4
MEM12007D	Mark off/out structural fabrications and shapes	4
MEM13003B	Work safely with industrial chemicals and materials	2
MEM13004B	Work safely with molten metals/glass	2

Unit code	Unit title	P
MEM18001C	Use hand tools	2
MEM18002B	Use power tools/hand held operations	2
MEM25001B	Apply fibre-reinforced materials	2
MEM25002B	Form and integrate fibre-reinforced structures	4
MEM25003B	Set up marine vessel structures	4
MEM25004B	Fair and shape surfaces	2
MEM25005B	Construct and assemble marine vessel timber components	8
MEM25006B	Undertake marine sheathing operations	2
MEM25007B	Maintain marine vessel surfaces	4
MEM25008B	Repair marine vessel surfaces and structures	4
MEM25009B	Form timber shapes using hot processes	2
MEM25010B	Perform fitout procedures	4
MEM25011B	Install marine systems	8
MEM25012B	Install and test operations of marine auxiliary systems	6
MEM25013B	Produce three-dimensional plugs/moulds	12
MEM25014B	Perform marine slipping operations	2
MEM25015A	Assemble and install equipment and accessories/ancillaries	2
MEM50002B	Work safely on marine craft	1
MEM50003B	Follow work procedures to maintain the marine environment	1

Unit code	Unit title	P
MEM50004B	Maintain quality of environment by following marina codes	1
MEM50009B	Safely operate a mechanically powered recreational boat	2

Group B - Trade Specialisation units

Select units from Certificate III Trade Specialisation units listed in Appendix I, Volume 1 of MEM05 to bring the total value of units to at least 73 points, including any prerequisites