

Title	Demonstrate knowledge of boat building methods		
Level	2	Credits	4

Purpose	People credited with this unit standard are able to: demonstrate knowledge of timber boat building; demonstrate knowledge of production metal boat building; and demonstrate knowledge of production composite boat building.
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Classification	Boating Industries > Marine Sales and Services
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Available grade	Achieved
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Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of timber boat building.

Performance criteria

- 1.1 Methods of constructing timber boat frames are explained in terms of process.
- Range methods may include – sawn and bent frames, inverted and upright construction, use of temporary and/or integral frames; evidence of two methods is required.
- 1.2 Advantages and disadvantages of timber planking and fastening systems are explained in terms of use.
- Range planking includes – carvel, clinker, double diagonal, triple planking. fastening systems include – nailing, riveting or roving, clenching, screwing, dowelling, bolting.
- 1.3 Waterproofing and protection systems for timber boats are explained in terms of purpose.

Outcome 2

Demonstrate knowledge of metal boat building.

Performance criteria

- 2.1 Methods of constructing metal boats are explained in terms of process.
- Range construction methods may include – jig fabrication, frames non-jig fabrication, riveting, welding, plate beating, rolling; evidence of two construction methods is required.
- 2.2 Different metals in boat construction are identified in terms of their operational use.
- 2.3 Advantages and disadvantages of metal boats are explained in terms of materials used.

Outcome 3

Demonstrate knowledge of composite boat building.

Performance criteria

- 3.1 Methods of constructing composite boats are explained in terms of process.
- Range evidence of two methods is required.
- 3.2 Environmental control for composite boat construction is explained in terms of temperature, humidity, and contamination.
- 3.3 Advantages and disadvantages of composite boats are explained in terms of materials used.

Planned review date	31 December 2021
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	7 May 1997	31 December 2018
Review	2	28 March 2001	31 December 2018
Rollover and Revision	3	20 March 2009	31 December 2018
Review	4	20 April 2017	N/A

Consent and Moderation Requirements (CMR) reference	0136
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact NZ Marine and Composites Industry Training Organisation
training@nzmarine.com if you wish to suggest changes to the content of this unit standard.