

<b>Title</b>	<b>Produce scale drawings of boat surfaces from corrected offsets</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare for, and draw to scale boats surfaces in orthographic projection; and create scale drawings of boats in orthographic projection.
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<b>Classification</b>	Boating Industries > Boatbuilding
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard does not assess full sized drawing of boats or boat component(s) on loft floors.
- 2 Range  
boat surfaces – hard-chined hulls or round bilged hulls.
- 3 Definition  
*Job specifications* refers to the standard requirements of the job being undertaken.  
*Scale drawing* refers to a drawing of an object that tells the accurate sizes of real object either enlarged or reduced by a certain figure.

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### Outcomes and performance criteria

#### Outcome 1

Prepare to draw to scale boat surfaces in orthographic projection.

#### Performance criteria

- 1.1 Components of plans are identified from corrected offsets.  
Range buttock lines, water lines.
- 1.2 Table of offsets is interpreted to establish locations of baselines.

#### Outcome 2

Create scale drawings of boats in orthographic projection.

#### Performance criteria

- 2.1 Grid is square, and scaled in accordance with job specifications.

- 2.2 Splines are selected and used to establish fair lines.
- 2.3 Faired lines cross grid lines in all projections at the same points.
- 2.4 Boat surfaces are drawn in accordance with job specifications.

<b>Planned review date</b>	31 December 2027
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 May 1997	31 December 2017
Review	2	28 March 2001	31 December 2017
Rollover and Revision	3	17 October 2008	31 December 2017
Review	4	19 January 2017	31 December 2024
Review	5	25 August 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.