

<b>Title</b>	<b>Weld aluminium boat components</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to prepare to weld, and weld aluminium boat components in all welding positions.
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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 All work practices must meet recognised codes of practice and documented worksite health and safety procedures (where these exceed code) for personal, product, and worksite health and safety, and must meet the obligations required by legislation.
- 2 Learners undertaking assessment against this unit standards are expected to comply with the following legislation and any subsequent amendments –
  - Health and Safety at Work Act 2015
  - Health and Safety in Employment Regulations 1995
  - Resource Management Act 1991
  - Hazardous Substances and New Organism Act 1996.
  - AS/NZS 1665:2004 Welding of Aluminium Structures.
- 3 Definitions
 

*Job specifications* refers to the standard requirements of the job being undertaken.

*Welding positions* are 1F/G – flat position, 2F/G – horizontal position, 3F/G vertical position, 4F/G – overhead position, where F refers to fillet and G refers to groove type of weld.

*Resources* refers to machinery, equipment, and materials.

*Workplace policies and procedures* refers to the documented procedures and policies providing guidelines of the tasks and activities carried out in the workplace. This typically includes relevant health and safety requirements to eliminate hazard/risk in the workplace.
- 4 The welding processes used for assessment must include at least one of the following: manual metal arc, gas metal arc, flux cored arc, and gas tungsten arc; and are undertaken in either a refit, construction of new metal boats and metal production trailer boats, or marine systems engineering environment.

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## Outcomes and performance criteria

### Outcome 1

Prepare to weld aluminium boat components in all welding positions.

#### Performance criteria

- 1.1 Scope of work is evaluated in relation to the requirements for aluminium boat components.
- 1.2 Resources are prepared and assembled in accordance with job specifications and workplace policies and procedures.
- 1.3 Aluminium boat components are positioned and aligned, ready for welding in accordance with job specifications and workplace policies and procedures.

### Outcome 2

Weld aluminium boat components in all welding positions.

#### Performance criteria

- 2.1 Welds are deposited on aluminium boat components in accordance with workplace policies and procedures.
- 2.2 Any non-conformance to the job specifications is identified, documented, and corrected in accordance with workplace policies and procedures.

<b>Planned review date</b>	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	20 April 2017	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>.

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### Comments on this unit standard

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