

<b>Title</b>	<b>Weld metal boat components in common pipe welding positions</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 metal boat components in common pipe 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 under Health and Safety at Work Act 2015, Resource Management Act 1991, AS/NZS 1665:2004 Welding of Aluminium Structures, and any subsequent amendments.
- 2 Definitions  
*Job specifications* refers to the standard requirements of the job being undertaken.  
*Resources* refers to machinery, equipment, and materials.  
*Workplace policies and procedures* refers to the documented procedures and policies providing guideline 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.
- 3 The welding processes used for assessment must include at least one of the following:
  - manual metal arc
  - gas metal arc
  - flux cored arc
  - gas tungsten arc
 and are undertaken in construction of new metal boats or metal production trailer boats, or in a marine systems engineering environment.
- 4 Range  
 Common pipe welding positions –1G horizontal rolled position, 2G vertical position, 5G horizontal fixed position, 6G inclined position.

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### Outcomes and performance criteria

#### Outcome 1

Prepare to weld metal boat components.

**Performance criteria**

- 1.1 Scope of work is evaluated in relation to job specifications.
- 1.2 Resources and equipment are prepared and assembled in accordance with job specifications and workplace policies and procedures.
- 1.3 Metal is positioned and aligned, ready for welding in accordance with job specifications and workplace policies and procedures.

**Outcome 2**

Weld metal boat components in common pipe welding positions.

**Performance criteria**

- 2.1 Welds are deposited on metal boat components in accordance with job specifications and workplace policies and procedures.
- 2.2 Finished welded boat components are checked and remedial action is taken if required to ensure job specifications is met.

<b>Planned review date</b>	31 December 2022
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	14 December 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>.

**Comments on this unit standard**

Please contact the 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.