

Title	Install internal and external boat hardware fittings		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: prepare for installation of internal and external boat hardware fittings, and carry out internal and external boat hardware fitting installation.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

- 1 This unit standard does not assess the installation of power plant, electrical, electronic or safety equipment; or the attachment of any associated drive systems to hardware.
- 2 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 the Health and Safety at Work Act 2015, Health and Safety Employment Regulations 1995, and Resource Management Act 1991, and any subsequent amendments.
- 3 **Definitions**
Hardware refers to items manufactured from metal or plastic which can be attached to a boat's external or internal fabric using adhesives and/or mechanical fastenings, and which have no permanently fixed power sources.
Job specifications refers to the specification requirements of the job being undertaken.
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 policies to manage risk in the workplace.
- 4 **Range**
external fittings may include – bollards, chainplates, pushpits, deck fittings, winches, tracks, hatches, windows, watertight doors, ventilation hardware.
internal fittings may include – door and locket hardware, fiddles, grab rails, bathroom and head hardware, headlining, fittings associated with lights, floor coverings and furnishings.
evidence of three external and three internal fittings is required.
- 5 This unit standard is applicable to boats constructed in timber, fibre-reinforced composites (FRC), or metal.

Outcomes and performance criteria

Outcome 1

Prepare for installation of internal and external boat hardware fittings.

Performance criteria

- 1.1 Hardware and fastenings are selected in terms of hardware and substrate materials compatibility, durability, and appearance in accordance with job specifications.
- 1.2 Installation position is located in accordance with job specifications.
- 1.3 Any variation to the installation position is documented and reported in accordance with workplace policies and procedures.
- 1.4 Surface is prepared for installation and fastening in accordance with job specifications.

Outcome 2

Carry out internal and external boat hardware fitting installation.

Performance criteria

- 2.1 Hardware and fastenings are installed in accordance with job specifications and workplace policies and procedures.
- 2.2 Completed installation is checked and remedial action is taken if required to ensure job specifications are met.

Planned review date	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	7 May 1997	31 December 2017
Revision	2	9 October 1998	31 December 2017
Revision	3	20 March 2001	31 December 2017
Revision	4	16 April 2004	31 December 2017
Rollover and Revision	5	17 October 2008	31 December 2017
Review	6	19 January 2017	31 December 2024
Review	7	25 August 2022	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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.