

Title	Explain rigging requirements of power boats		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to identify and explain rigging requirements of power boats.
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Classification	Motor Industry > Trailer Boat Systems
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Available grade	Achieved
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Guidance Information

1 Definitions

Manufacturers' specifications refer to technical information of a boat or product detailing: operation; installation and servicing procedures; manufacturer instructions and specifications, technical terms and descriptions; or illustrations. Manufacturers' specifications must be followed in all instances to ensure compliance with manufacturer warranty, safe operation, and operation that meets manufacturer performance claims.

Rigging refers to the fitting of engines and related accessories to a powerboat.

Workplace policies and procedures refer to the documented procedures and policies providing guidelines for the tasks and activities carried out in the workplace. This typically includes relevant health and safety requirements to manage hazards and/or risks in the workplace.

2 Assessment information

Evidence presented for assessment against this unit standard must be in accordance with manufacturers' specifications and workplace policies and procedures.

Outcomes and performance criteria

Outcome 1

Identify and explain rigging requirements of power boats.

Performance criteria

- 1.1 Hull and boat plans and their specifications and intended use are interpreted to enable equipment layout requirements to be identified.

Range boat specifications – structural integrity
 intended use – suitability of design to boat application.

- 1.2 Helm station design requirements are identified in accordance with boat and engine manufacturer's specifications.
- Range includes – remote control steering, instruments and gauges, electrics and electronics, hardware, ergonomically correct.
- 1.3 Procedure to locate a transom centre line and engine mount parallel to the centre line is explained in accordance with boat manufacturer manual instructions and engine manufacturers' specifications.
- 1.4 Procedure to measure transom angle is explained in relation to power and transmission unit mounting in accordance with engine manufacturers' specifications.
- 1.5 Compatibility requirements of accessories and fittings with boats are identified in accordance with boat and engine manufacturers' specifications.
- 1.6 Factors to consider when rigging a hull are explained in accordance with boat manufacturer's instructions.
- Range includes – customer requirements, equipment specifications, safety, security, compatibility, weight distribution, and boat trim.
- 1.7 Equipment layout requirements are explained in accordance with boat manufacturers' instructions and engine manufacturers' specifications for the destination.
- Range includes – engine ventilation, space-saving, ease of maintenance, location of essential monitoring and control systems, provision of protection from moving cables and linkages, wiring looms, exhaust system, radio frequency interference, and dangerous gases.

Planned review date	31 December 2030
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 February 1999	31 December 2020
Revision	2	16 April 2003	31 December 2020
Review	3	21 September 2007	31 December 2020
Rollover and Revision	4	20 July 2017	31 December 2020
Review	5	26 July 2018	31 December 2027
Review	6	29 May 2025	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 Engineering, Manufacturing and Logistics Workforce Development Council at qualifications@hangaarorau.nz if you wish to suggest changes to this skill standard.