

Title	Explain water jet propulsion systems		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to explain water jet propulsion systems, and installation requirements and servicing procedures for water jet propulsion systems.
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Classification	Motor Industry > Trailer Boat Systems
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Available grade	Achieved
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Guidance Information

- 1 This unit standard is a pre-requisite for Unit 15466, *Inspect, test, and repair a water jet propulsion system*.
- 2 Definitions
Manufacturers' specifications refer to technical information of a boat or product detailing: operation, installation and servicing procedures; technical terms and descriptions; and illustrations. Manufacturer specifications must be followed to ensure compliance with manufacturer warranty, safe operation, and operation that meets manufacturer performance claims.
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 eliminate hazards and/or risks in the workplace.
- 3 Assessment information
 Assessment for this unit standard must relate to water jet propulsion systems in either a power boat or personal watercraft.
 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

Explain water jet propulsion systems.

Performance criteria

- 1.1 Types of water jet propulsion systems are explained in terms of their design.

Range types of water jet – vertical shaft, horizontal shaft.

- 1.2 Features of water jet propulsion systems are explained in terms of their function.
- 1.3 Sealants and lubricants for water jet propulsion systems are identified.
- 1.4 Operation of water jet propulsion systems is explained.

Outcome 2

Explain installation requirements and servicing procedures for water jet propulsion systems.

Performance criteria

- 2.1 Installation requirements for water jet propulsion systems are explained.
- Range hydraulics, reverse, steering.
- 2.2 The purpose and functions of a cooling filtration unit are explained.
- 2.3 Servicing procedures for water jet propulsion systems are explained.
- Range may include – visual inspection, operation inspection, repairing, replacing, sealing, lubricating, and measuring clearances.

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 2018
Revision	2	16 April 2003	31 December 2018
Review	3	21 September 2007	31 December 2018
Review	4	28 September 2017	31 December 2027
Review	5	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.