

Title	Design marine electronic systems		
Level	7	Credits	20

Purpose	People credited with this unit standard are able to: identify customer requirements; design marine electronic systems to match client requirements and boat characteristics; and complete documentation.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

Range
systems may include – communications, navigation, hydro acoustics and entertainment systems.

Outcomes and performance criteria

Outcome 1

Identify customer requirements.

Performance criteria

1.1 Analysis of customer requirements establishes the intended use of the systems.

Range boat type and size, operating environment, existing and proposed systems and equipment associated with the intended use.

1.2 Analysis of customer requirements establishes the customer's expected price range and expectations of system and equipment performance.

1.3 Agreement is reached on design strategy for systems and equipment.

Outcome 2

Design marine electronic systems to match client requirements and boat characteristics.

Performance criteria

2.1 Equipment and systems are listed in terms of their proposed use.

2.2 Systems are designed to meet customer expectations, operation and regulatory requirements.

Range costs, compatibility, serviceability, cosmetics, power supplies, boat layout, accessibility and safety.

2.3 System design is co-ordinated with other specialist designers.

Range includes but is not limited to – electrical engineering, boatbuilders, motive power, naval architects, interior designers.

Outcome 3

Complete documentation.

Performance criteria

3.1 Systems drawings are produced that include equipment information.

3.2 Equipment schedule is produced to meet job requirements.

3.3 Cable schedule is produced according to wiring requirements.

3.4 Systems description is produced according to design proposal.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 August 1997	31 December 2025
Revision	2	9 October 1998	31 December 2025
Revision	3	20 March 2001	31 December 2025
Revision	4	16 April 2004	31 December 2025
Rollover	5	20 March 2009	31 December 2025
Rollover and Revision	6	26 July 2018	31 December 2025
Review	7	25 August 2022	31 December 2025

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>.