

Title	Produce developed designs for underwater appendages		
Level	6	Credits	30

Purpose	People credited with this unit standard are able to: identify marine design requirements; design underwater appendages; coordinate the design with the work of other specialist designers; and produce legal documents for marine contracts.
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Classification	Boating Industries > Marine Design
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Available grade	Achieved
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Guidance Information

- 1 Definitions
Design brief refers to a documented design description of a client's requirements.
Design principles referred to in this unit standard incorporate ergonomics, functionality, practicality, scantlings, aesthetics, and design rules.
- 2 Range
 appendages – keels, rudders, propellers.

Outcomes and performance criteria

Outcome 1

Identify marine design requirements.

Performance criteria

- 1.1 The design brief is matched to the type and use of underwater appendages.
- 1.2 Developed design is produced incorporating structural requirements and accepted design principles.

Outcome 2

Design underwater appendages.

Performance criteria

- 2.1 Developed design matches design brief and client's requirements.
- 2.2 Structural and functional viability meets design principles.

2.3 Design drawings are produced that meet design brief and client's requirements.

Outcome 3

Coordinate the design with the work of other specialist designers.

Performance criteria

3.1 Design brief is analysed to determine required specialist input.

3.2 Summary specifications are prepared for project outline's critical path where specialists' input is specified.

3.3 Specialists' input is monitored to ensure that work meets specified design brief.

Outcome 4

Produce legal documents for marine contracts.

Performance criteria

4.1 Drawing, details, and specifications are collated to produce a contract set that meets client's and architect's requirements.

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Status information and last date for assessment for superseded versions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	19 June 1997	31 December 2025
Revision	2	21 March 2001	31 December 2025
Revision	3	16 April 2004	31 December 2025
Rollover and Revision	4	20 March 2009	31 December 2025
Rollover and Revision	5	26 July 2018	31 December 2025
Review	6	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>.