

<b>Title</b>	<b>Develop a design of a complex marine structure</b>		
<b>Level</b>	<b>6</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to evaluate and analyse complex marine structure design requirements and develop a design of a complex marine structure.
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<b>Classification</b>	Boating Industries > Marine Design
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<b>Available grade</b>	Achieved
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### Guidance Information

#### Definitions

*Complex marine structure* refers to the whole structure or sections of a boat. For example – bridge decks, hull, flybridge, mast/spars, or superstructures.

*Concept drawing (or sketches)* are drawings, often free hand used as a way of investigating and communicating design principles and aesthetic concepts, without detailed engineering, or complete drawing development.

*Design brief* refers to a documented design description of a client's requirements.

*Design principles* referred to incorporated ergonomics, functionality, practicality, scantlings, aesthetics, and design rules.

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### Outcomes and performance criteria

#### Outcome 1

Evaluate and analyse complex marine structure design requirements.

#### Performance criteria

- 1.1 Client's requirements in the design brief are evaluated and analysed in accordance with design principles.
- 1.2 Concept drawing is produced to meet design brief and design principles.

#### Outcome 2

Develop a design of a complex marine structure.

#### Performance criteria

- 2.1 Design is developed and finalised for a complex marine structure to meet design brief and design principles.

- 2.2 Finalised design is evaluated in accordance with the design principles, and any recommendations for design improvements are made.

<b>Planned review date</b>	31 December 2022
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 August 2017	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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 the NZ Marine and Composites Industry Training Organisation [training@nzmarine.com](mailto:training@nzmarine.com) if you wish to suggest changes to the content of this unit standard.