

<b>Title</b>	<b>Explain costing and prepare estimate pricing for a vessel technology project</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>20</b>

<b>Purpose</b>	People credited with this unit standard are able to: explain costs relating to a vessel technology project; and prepare an estimate of price for a vessel technology project.
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<b>Classification</b>	Boating Industries > Boatbuilding
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Definitions

*Job specifications* refer to the standard requirements of the job being undertaken.

*Stakeholder* refers to an organisation or an individual. This may include the owner, client, sub-contractors, project manager, technicians and designers.

*Vessel technology* refers to the development, and manufacturing of various types of vessels including boats, ships, and rockets for marine, maritime, aeronautical, composites or specialised technology industries.

*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.

### 2 Assessment

The estimate may be simulated for assessment purposes and may be prepared for internal workplace use.

## Outcomes and performance criteria

### Outcome 1

Explain costs relating to a vessel technology project.

### Performance criteria

#### 1.1 Direct costs are explained in relation to a project.

Range	direct costs include but are not limited to – labour, materials, equipment, consultants, subcontract costs.
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- 1.1 Indirect costs are explained in relation to a project.
- Range indirect costs include but are not limited to – overhead cost, administration costs.
- 1.3 Factors that influence project costs are explained in terms of their impact on the project.
- Range factors may include – construction difficulty, regulatory requirements, duration, changes to material and labour costs, rework, legal costs, natural disasters, overhead cost changes, subcontractor, required machinery; evidence of three factors is required.
- 1.4 Process for variation orders is explained.
- Range process must include – generate a variation order to the contract, communicate and determine impact of variation, approval and sign-off by stakeholders.
- 1.5 Costing factor outcomes are explained to the relevant stakeholders for approval.
- Range stakeholders may include but are not limited to – internal and/or external.

## Outcome 2

Prepare an estimate of price for a vessel technology project.

### Performance criteria

- 2.1 Price of resources needed for the project is identified in accordance with job specifications.
- Range resources must include – labour, materials, equipment, transport, consultants, subcontract costs.
- 2.2 Estimate of price of a vessel project is made in accordance with job specifications and workplace policies and procedures.
- Range estimate must include – labour, materials, equipment, transport, consultants, subcontractor costs, allowances for overhead costs and administration costs.
- 2.3 Factors that could potentially affect the vessel project are documented in accordance with workplace policies and procedures.
- 2.4 Estimate is presented to stakeholders for approval and sign-off.

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<b>Planned review date</b>	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	26 June 2025	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>.

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**Comments on this unit standard**

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.