

<b>Title</b>	<b>Prepare to manufacture ferro-cement tanks</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	<p>This unit standard is intended for people working in the ferro-cement tank manufacture industry.</p> <p>People credited with this unit standard are able to prepare to manufacture ferro-cement tanks to the level required of a commercially competent ferro-cement tank manufacturer.</p>
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<b>Classification</b>	Concrete > Precast Concrete
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Assessment

This unit standard is one of a family of standards intended to align with the *New Zealand Certificate in Trowel Trades – Specifications*, and the *New Zealand Certificate in Trowel Trades (Level 4)* with strands in Brick and Block Laying, Floor and Wall Tiling, Proprietary Plaster Cladding Systems, Ferro-cement Tank Manufacture, Refractory Installation, and Solid Plastering (with optional strands in Fixing Cavities and Substrates, and Decorative Mouldings) [Ref: 3137].

Evidence for this unit standard must reflect commercial competence.

Commercial competence requires a candidate to be capable of consistently performing the requirements of the unit specification:

- to current regulatory, industry and commercial standards
- within a commercially viable timeframe
- in commercial environments
- without supervision
- in different and unfamiliar contexts.

Commercial competence must be confirmed by a person who has current expertise in the ferro-cement tank manufacture trade.

### 2 Definition

*Workplace procedures* refer to the documented procedures specific to a workplace which sets out the standard and the required practices of that workplace.

- 3 Legislation, and guidance information relevant to this standard includes the following, and any subsequent amendments and replacements:

*New Zealand Certificate in Trowel Trades – Specifications*, BCITO, August 2021, available from [www.waihangaarau.nz](http://www.waihangaarau.nz).

Legislation accessed at [www.legislation.govt.nz](http://www.legislation.govt.nz)

- Building Act 2004,
- Health and Safety at Work Act 2015,
- The New Zealand Building Code.

Best practice and good practice guidelines

- *The Absolutely Essential Health and Safety Toolkit for Small Construction Sites*, and other Worksafe NZ publications available from [www.worksafe.govt.nz](http://www.worksafe.govt.nz).

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## Skill specification and performance level guidance

### Skill specification

Prepare to manufacture ferro-cement tanks.

### Knowledge

The different types of moulds and formwork used to manufacture ferro-cement tanks.

The requirements and methods to set up moulds for the different tank components.

Range tank components include – base, internal wall, external wall, roof.

The requirements and methods to cut, bend, tie and position reinforcing for the different tank components.

Range tank components include – base, internal wall, external wall, roof;  
reinforcing includes – steel bars, mesh, chain link wire, wire.

The requirements and methods to place and secure in position any accessories that are cast into the tank.

Range risers, pipes, lifters.

### Skills

Set up moulds and formwork for the different tank components.

Range tank components include – base, internal wall, external wall, roof.

Cut, bend, tie and position reinforcing for the different tank components.

Range may include – steel bars, mesh, chain link wire, wire.

Place and secure in position any accessories that are cast into the tank.

Range may include – risers, pipes, lifters.

### Performance level guidance

Performance must reflect organisation of all components, equipment and materials required to successfully construct ferro cement tanks in accordance with workplace procedures.

<b>Planned review date</b>	31 December 2027
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 September 2018	31 December 2025
Review	2	25 August 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0048
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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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) if you wish to suggest changes to the content of this unit standard.