

<b>Title</b>	<b>Place and finish concrete components used in the manufacture of ferro-cement tanks</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>13</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 place and finish concrete components used in the manufacture of 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 Definitions

*Job documentation* refers to approved plans for the specific work to be carried out.  
*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

Place and finish concrete components used in the manufacture of ferro-cement tanks.

### Knowledge

The processes to place and finish concrete components used in the manufacture of ferro-cement tanks.

Range base, internal wall, roof, internal band.

The processes to cure concrete for tank manufacture.

The methods to strip and clean moulds and formwork used for tank manufacture.

The different types of defects encountered in finished concrete and what to do to remedy them.

### Skills

Place and finish concrete for the different tank components.

Range base, internal wall, roof, internal band.

Cure concrete for tank manufacture.

Strip and clean tank moulds and formwork.

Complete any remedial work necessary to address defects in finished concrete components.

## Performance level guidance

Performance must reflect construction of concrete components used for ferro-cement tank manufacture to industry standards in allocated time frames to job documentation, and in accordance with workplace procedures.

Stripping moulds for roofs must reflect safe work practices for working in a confined space.

<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.