<table>
<thead>
<tr>
<th>Title</th>
<th>Place and finish concrete components used in the manufacture of ferro-cement tanks</th>
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<tbody>
<tr>
<td>Level</td>
<td>4</td>
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<td>Credits</td>
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**Purpose**

This unit standard aligns with the *New Zealand Certificate in Trowel Trades – Specifications*, developed on behalf of the trowel trades to specify the skills and knowledge required to achieve 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].

This unit standard is intended for those working in the ferro-cement tank manufacture industry.

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.

**Classification**

Concrete > Precast Concrete

**Available grade**

Achieved

**Guidance Information**

This unit standard is one of a family of standards that align with the *New Zealand Certificate in Trowel Trades – Specifications* and should be read, interpreted and assessed in the context of those *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].

The overarching level of performance for the family of unit standards is 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.

The sufficiency of evidence required to demonstrate commercial competence against this unit standard is determined within the context of the family of unit standards aligned to the Specifications.

The assessor must be confident that the candidate is capable of applying the skills and knowledge included in this skill specification to the level, scope and complexity required to support the achievement of related skills included in the Specifications.

Commercial competence can only be demonstrated, and must be assessed, in the workplace.

The assessment of commercial competence must be corroborated and confirmed by a person who has current expertise in the ferro-cement tank manufacture trade and has had the opportunity to regularly observe the candidate in the workplace.

Reference

Skill specification and performance level guidance

Skill specification

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

Know

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

How to cure concrete for tank manufacture.

How 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.

Do

Place and finish concrete for the different tank components.

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

Tank components include bases, internal walls, roofs and internal bands.

Stripping moulds for roofs involves working in a confined space.
Planned review date

<table>
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<th>Process</th>
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Consent and Moderation Requirements (CMR) reference

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Comments on this unit standard

Please contact the Building and Construction Industry Training Organisation national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.