

Title	Mix sand and cement plaster for ferro-cement tank manufacture		
Level	4	Credits	8

Purpose	<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 mix sand and cement plaster for ferro-cement tank manufacture to the level required of a commercially competent ferro-cement tank manufacturer.</p>
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Classification	Concrete > Precast Concrete
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Available grade	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

Environmental conditions refer to the temperature, humidity and precipitation in the environment where the work is being undertaken.

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.

Legislation accessed at 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.

Skill specification and performance level guidance

Skill specification

Mix sand and cement plaster for ferro-cement tank manufacture.

Knowledge

The procedure to mix sand and cement plaster.

Range mixing time, appropriate quantities for work requirements.

The impact of environmental conditions on the plaster mix.

Skills

Mix sand and cement plaster to manufacture ferro-cement tanks.

Range includes using the appropriate proportions of the different ingredients for different coats;
ingredients include – sand, cement, water, additives.

Performance level guidance

Performance must demonstrate that plaster is consistently mixed accurately and in sufficient volumes to enable tank manufacture to be successfully completed to industry standard and in accordance with workplace procedures.

Planned review date	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

Consent and Moderation Requirements (CMR) reference

0048

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 if you wish to suggest changes to the content of this unit standard.