

<b>Title</b>	<b>Demonstrate knowledge of materials, and store and protect materials used for floor and wall tiling</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This unit standard is intended for people working in the floor and wall tiling industry.</p> <p>People credited with this unit standard are able to demonstrate knowledge of materials, and store and protect materials used for floor and wall tiling to the level required of a commercially competent floor and wall tiler.</p>
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<b>Classification</b>	Construction Trades > Floor and Wall Tiling
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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 floor and wall tiling trade.

#### 2 Definitions

*Cementitious* products are cement based and mixed with water or with additives, and include screeds, grouts, floor-levelling compounds, and adhesives.

*Epoxy-resin* products are epoxy-based products that include adhesives and grouts and require following the mixing ratio provided by the manufacturer.

*Job documentation* refers to all documented information related to the specific scope of work, including manufacturer's specifications.

*Manufacturer's specifications* refer to all relevant information about a specific product provided by the manufacturer.

*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, standards 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.waihangaAraRau.nz](http://www.waihangaAraRau.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.

Standard accessed at [standards.org.au](http://standards.org.au)

- AS 3958.1:2007 *Ceramic tiles, Part 1: Guide to installation of ceramic tiles*.

Best practice and good practice guidelines

- Pringle, T & Wierenga, J. (2015). *Good Practice Guide: Tiling* (3rd edition). Wellington: BRANZ,
- *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

Demonstrate knowledge of materials, and store and protect materials used for floor and wall tiling.

### Knowledge

The different types, sizes, characteristics and limitations of tiles.

Range porcelain, ceramic, stone, terracotta, glass, composite; characteristics include – reaction to temperature variation and other environmental conditions, moisture resistance, chemical resistance, colour, texture, pattern, tile direction, slip resistance.

The different types and properties of watertightness materials and systems.

Range membranes, waterproof tapes and gaskets, sealants.

The different types and properties of beds to which tiles are fixed.

Range mortar, bonded and unbonded screed, levelling.

The different types and properties of primers used to prepare substrates to which tiles are installed.

Range consolidating, bond enhancing.

The different types and properties of adhesives used to prepare substrates to which tiles are installed.

Range cementitious, epoxy-resin, dispersion, additives.

The different types and properties of grouts used to finish tiles.

Range cementitious, epoxy-resin.

The different types and properties of flexible sealants to finish tiles.

Range must include knowledge of at least two – neutral cure silicone, acetoxysilicone, urethane, acrylic.

The different types and properties of penetrating and surface sealers used to finish tiles and grouts.

Range water-based, solvent-based.

The different types and uses of accessories used by tilers.

Range spacers, wedges, levelling systems, deck jacks caps, tile trims, transition strips, water stops, movement control joints, shower grates, mechanical fixings; may include – puddle flanges, wall caddies.

The requirements, and methods to store tiling materials to protect them from the environment and other trades.

How to recognise manufacturing flaws and any damage to tiling materials prior to installation.

## **Skills**

Safely store and protect materials required for floor and wall tiling operations from the weather and other trades.

Recognise when tiling materials are flawed or damaged, and take appropriate action prior to installation.

## **Performance level guidance**

Performance must reflect adherence to manufacturer's specifications, job documentation, best practice guide and workplace procedures relevant to floor and wall tiling.

<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	31 December 2025
Revision	3	26 April 2024	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 Waihangā Ara Rau Construction and Infrastructure Workforce Development Council [qualifications@WaihangāAraRau.nz](mailto:qualifications@WaihangāAraRau.nz) if you wish to suggest changes to the content of this unit standard.