

<b>Title</b>	<b>Cut and install floor and wall tiles</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>48</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 cut and install floor and wall tiles 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

*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

Cut and install floor and wall tiles.

### Knowledge

The methods to straight cut tiles.

Range wet saw cut, scribe and break, handheld grinder.

The methods to perform mitre cuts and minor adjustments cut tiles for installation around joinery and fixtures.

Range mitre cuts, handheld nippers, handheld grinder.

The methods to cut holes in tiles.

Range using – core drill bits, diamond tip drill bits, handheld grinder, nippers.

The requirements for tile layout for different sized tiles and patterns.

Range layout takes into consideration – centres, grout joints, direction of tile placement, expansion and contraction of tiles, joinery, tile off-cut wastage, movement joints, overall aesthetic design; patterns include at least three of – stack bond, grid, off-set, staggered, herringbone, borders, basketweave, hopscotch.

The requirements for the use of elevated jacks for the installation of structural tiles.

The requirements to install tiles on internal and external surfaces.

The processes used to install tiles in wet areas.

Range includes but is not limited to – raking cuts, valley cuts, falls to tile wastes and shampoo recesses.

The processes used to install tiles around joinery and fixtures.

The requirements and methods to replace individual tiles.

### **Skills**

Straight cut tiles.

Cut tiles for around joinery and fixtures.

Cut holes in tiles.

Prepare patterns and layout of tiles in preparation for tile installations.

Install tiles to floors on internal surfaces.

Install tiles to walls on internal surfaces.

Install floor and wall tiles on external surfaces.

Install tiles in wet areas.

Install tiles around joinery and fixtures.

Carry out minor repairs, and replace individual damaged tiles.

### **Performance level guidance**

Performance must reflect installation of tiles to walls, floors, wet areas, heated floors, decks, steps, columns and acoustic systems, in accordance with workplace procedures, manufacturer specifications, legislative requirements, best practice guide, and job documentation.

Cutting and installation must include different types and sizes of tiles made from different materials with different finishes. It must also include tiles of square, rectangular, and other regular and irregular shapes, large format tiles, borders, and mosaic. Cutting and installation may include structural tiles, and ultra-large tiles.

Installing tiles includes thin set adhesives and elevated jacks. Performance must reflect the fact that thin set adhesives is the primary process used by tilers. The level of knowledge required for mechanical and elevated jacks is proportional to their use in the industry, and in specific contexts.

<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.