

<b>Title</b>	<b>Operate and maintain machinery, plant and equipment used to manufacture concrete products</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	<p>This unit standard is intended for those working in the concrete product manufacturing industry.</p> <p>People credited with this standard are able to operate and maintain machinery, plant, and equipment used to manufacture concrete products to commercial standards.</p>
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<b>Classification</b>	Concrete > Concrete Product Manufacture
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Assessment

This unit standard is intended to align with the *New Zealand Certificate in Concrete Construction Skills Specifications* and the *New Zealand Certificate in Concrete Construction Skills (Level 3)* [Ref: 4189].

Evidence for this standard must reflect commercial standards.

Commercial standards refer to verbal and written information covering company policy, standard operating procedures and processes, and job-specific instructions.

Working to commercial standards refers to the ability to consistently:

- perform standard processes to current industry standards, on demand and within a commercially acceptable timeframe;
- perform non-standard processes to current industry standards, on demand and within a commercially acceptable timeframe, under the supervision of a commercially competent practitioner.

Working to commercial standards must be confirmed by a person with current expertise in concrete product manufacture.

### 2 Definitions

*Concrete product manufacture* refers to the manufacture of concrete products using automated or semi-automated standardised production processes.

*Workplace procedures* refers to the documented procedures specific to a workplace that set out the standards and 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 Concrete Construction Skills – Specifications*, BCITO, May 2021, accessed at [www.bcito.org.nz](http://www.bcito.org.nz).

Legislation accessed at [www.legislation.govt.nz](http://www.legislation.govt.nz)

- Health and Safety at Work Act 2015
- Resource Management Act 1991
- Health and Safety at Work (General Risk and Workplace Management) Regulations 2016
- The New Zealand Building Code.

Standards accessed at [www.standards.govt.nz](http://www.standards.govt.nz)

- NZS 3114:1987 *Specification for concrete surface finishes*
- NZS 4230:2004 *Design of reinforced concrete masonry structures*.

Guidelines and Approved Codes of Practice accessed at [www.worksafe.govt.nz](http://www.worksafe.govt.nz) for the following topics:

- *Load-lifting rigging*
- *Manual handling*
- *Management of substances hazardous to health*
- *Safe use of machinery*
- *Management of noise in manufacturing*
- *Absolutely essential health and safety toolkit*.

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## Skill specification and performance level guidance

### Skill specification

Operate and maintain machinery, plant and equipment used to manufacture concrete products.

### Knowledge

The pre-production checks and inspection requirements for machinery, plant and equipment used to manufacture concrete products.

The purpose and operating procedures for machinery, plant and equipment used to manufacture concrete products.

The maintenance procedures for machinery, plant and equipment used to manufacture concrete products.

### Skills

Complete pre-production checks and inspections on machinery, plant and equipment used to manufacture concrete products.

Operate machinery, plant and equipment to manufacture concrete products.

Range includes – carrying out safety checks, following safe use practices.

Maintain machinery, plant and equipment used for concrete product manufacture.

Range includes – routine checks, inspections, cleaning, and basic servicing and repair.

### Performance level guidance

Performance must reflect current regulatory, industry and commercial standards relevant to concrete product manufacture.

Operation and maintenance of machinery, plant and equipment must be according to manufacturer's instructions and workplace procedures.

<b>Planned review date</b>	31 December 2026
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 October 2021	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 the Building and Construction Industry Training Organisation [national.office@bcito.org.nz](mailto:national.office@bcito.org.nz) if you wish to suggest changes to the content of this unit standard.