

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

Purpose	<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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Classification	Concrete > Concrete Product Manufacture
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Available grade	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 standardized 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.

Legislation accessed at 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

- 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 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*.

Outcomes and performance criteria

Outcome 1

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 criteria

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.

Replacement information	This unit standard was replaced by skill standard 41149.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 October 2021	31 December 2027
Review	2	26 February 2026	31 December 2027

Consent and Moderation Requirements (CMR) reference	0048
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.