

Title	Apply quality checking procedures to concrete product manufacture		
Level	3	Credits	4

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 apply quality checking procedures to concrete product manufacture 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 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.

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 3101.1&2:2006 *Concrete structures*
- 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

Apply quality checking procedures to concrete product manufacture.

Knowledge

The quality checking requirements for concrete product manufacture.

The scheduling requirements for quality checks for concrete product manufacture.

The record keeping requirements for quality checking for concrete product manufacture.

The processes to be followed when concrete product manufacturing does not meet quality requirements.

Skills

Carry out quality checking for concrete product manufacturing.

Follow quality checking scheduling for concrete product manufacture.

Maintain records of quality checking and actions for concrete product manufacture.

Respond to occurrences of non-compliance with quality requirements for concrete product manufacture.

Performance criteria

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

Quality checking involves visual inspection of concrete products during all stages of manufacture including identification of damaged moulds, non-compliance with design specifications, tolerances and finished surface damage.

Quality checking processes and recording must meet specified schedules for checking throughout the manufacturing process and reflect workplace procedures.

Replacement information	This unit standard and unit standard 32680 were replaced by skill standard 41150.
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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>.