

Title	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 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 standardised production processes and includes blocks, bricks, pavers and a range of other standardised concrete products.

Design specifications refer to information supplied by the designer or design engineer that describes in detail the layout, materials, dimensions, quality and safety requirements of a construction.

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

Manufacture concrete products.

Knowledge

The types and purposes of moulds and mould components used for concrete product manufacture.

The servicing requirements of moulds for concrete product manufacture.

The acceptable tolerances for moulds used to manufacture concrete products.

The procedures for assembling and preparing moulds for concrete product manufacture.

The pre-production processes required for concrete product manufacture.

Skills

Inspect and service moulds for concrete product manufacture.

Assemble and prepare moulds for the manufacture of concrete products.

Carry out pre-production processes for concrete product manufacture.

Complete production processes for concrete product manufacture.

Performance criteria

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

Manufacturing processes must be according to workplace procedures, and meet design specifications.

Replacement information	This unit standard and unit standard 32681 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>.