

Title	Complete post-production processes for manufactured concrete products		
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 complete post-production processes for manufactured 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.

A crane operator supervising the movement of concrete products will hold unit standard 3789, *Sling varied regular loads and safely direct a crane during crane operations* and unit standard 3800, *Use a radio remote or pendant controlled gantry crane to lift and place regular loads*.

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

Complete post-production processes for manufactured concrete products.

Knowledge

The requirements of post-production processes for manufactured concrete products.

The types of defects encountered in finished concrete surfaces.

Remediation methods used to address defects in finished concrete surfaces.

Range according to NZS 3114.

The procedures for lifting, moving and storing manufactured concrete products.

Methods used to prevent loading stress and physical damage to manufactured concrete products.

The post-production record keeping requirements for concrete product manufacture.

Skills

Complete post-production processes for concrete product manufacture.

Identify and repair defects in finished concrete surfaces to meet design specifications.

Assist with moving, handling and storing concrete products, using approved practices to prevent damage to concrete structure and surfaces.

Range moving concrete products includes – processes involving the use of cranes and associated lifting equipment inside the confines of the manufacturing yard under the supervision of a qualified crane operator.

Complete post-production record keeping for concrete product manufacture.

Performance criteria

Post-production processes must reflect current regulatory, industry and commercial standards relevant and workplace procedures.

Use of cranes and associated lifting equipment must be according to manufacturer's specifications and instructions and workplace procedures.

Replacement information	This unit standard and unit standard 32685 were replaced by skill standard 41162.
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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>.