

<b>Title</b>	<b>Complete pre-pour processes for precast concrete manufacture</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 precast concrete manufacturing industry.</p> <p>People credited with this standard are able to complete pre-pour processes for precast concrete manufacture to commercial standards.</p>
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<b>Classification</b>	Concrete > Precast Concrete
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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 precast concrete manufacture.

### 2 Definitions

*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.

*Precast concrete manufacture* refers to the production of a range of structural reinforced concrete elements using reusable and adjustable moulds.

*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 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](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*
- *Safe work with precast concrete*.

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## Skill specification and performance level guidance

### Skill specification

Complete pre-pour processes for precast concrete manufacture.

### Knowledge

Methods used to prepare casting beds for precast concrete manufacture.

Methods used to assemble, modify and prepare moulds for precast concrete manufacture.

The purpose of reinforcing and cast-in elements used for precast concrete manufacture.

Methods used to position and secure reinforcing, and cast-in elements for precast concrete manufacture.

## Skills

Prepare, set and check the casting surface for precast concrete manufacture.

Range may include – the use and alteration of pre-made moulds, forming rebates, joints and block outs;  
check includes review against working drawings, and design specifications.

Assemble, modify and prepare moulds, and formwork for precast concrete manufacture.

Position and secure reinforcing, and cast-in elements for precast concrete manufacture.

Range may include – integrating or modifying prefabricated cages, and some cutting, bending and tying individual reinforcing elements to form the overall reinforcing requirements but does not include running stressing strands.

## Performance level guidance

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

Pre-pour processes must reflect workplace procedures and meet design specifications.

<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.