

Title	Plan and lead a work programme, and quality assure manufacturing for precast concrete		
Level	4	Credits	10

Purpose	<p>This unit standard is for people working in the construction industry.</p> <p>People credited with this standard are able to plan and lead a work programme, and quality assure manufacturing for precast concrete elements to the level of performance required of a commercially competent tradesperson.</p>
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Classification	Concrete > Precast Concrete
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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 (Specialist) – Specifications* and the *New Zealand Certificate in Concrete (Specialist) (Level 4)* [Ref: 4186].

Evidence for this unit standard must reflect commercial competence.

Commercial competence refers to the ability to demonstrate knowledge and skills in the context of the currently accepted requirements of a business operating in a commercial environment.

Commercial competence must be confirmed by a person with current expertise in precast concrete manufacture.

2 Definition

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:

Specifications available from qualifications@waihanga.nz

- *New Zealand Certificate in Concrete (Specialist) – Specifications*, BCITO, October 2020.

Legislation accessed at www.legislation.govt.nz

- Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

Standards accessed at www.standards.govt.nz

- NZS 3101.1&2:2006 *Concrete structures*.

Guidelines and Approved Codes of Practice accessed at www.worksafe.govt.nz

- *The Absolutely Essential Health and Safety Toolkit*.

New Zealand Guide to Concrete Construction 2011 (Revised Edition) accessed at www.concretenz.org.nz.

Skill specification and performance level guidance

Skill specification

Plan and lead a work programme, and quality assure manufacturing for precast concrete.

Knowledge

How to interpret and communicate precast concrete manufacture job specifications.

The information required, and methods to estimate labour and materials requirements.

Processes for scheduling required plant and equipment for precast concrete manufacturing.

Range plant and equipment includes – any machinery, tools and equipment (including personal protective equipment) required to complete the manufacture process.

How to evaluate casting area, mould construction, and reinforcing requirements.

Range requirements include the size of element to be manufactured, storage and post-production care.

How to identify the hazards and manage the risks associated with precast concrete manufacture.

Range risks include – potential for serious harm or death from equipment failure, lack of knowledge, poor or non-compliance with safety and standard operating procedures.

The quality assurance requirements, including scheduling of quality checks and testing.

Skills

Plan a precast concrete manufacturing work programme.

Lead a precast concrete manufacturing work programme.

Range allocate – labour, work tasks, materials and equipment.

Manage risks associated with manufacturing precast concrete elements.

Move, store, and care for completed precast elements.

Quality assure the manufacture of precast concrete elements.

Quality check manufacturing processes according to specified schedule.

Maintain records of quality checking, pre and post pour testing and postproduction information.

Performance level guidance

Performance must reflect workplace procedures, current regulatory, industry and commercial standards relevant to precast concrete manufacturing operations.

Planned review date	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	27 January 2022	N/A

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>.

Comments on this unit standard

Please contact Waihangā Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihanga.nz if you wish to suggest changes to the content of this unit standard.