

Title	Apply plans, working drawings, and specifications to concrete operations		
Level	4	Credits	8

Purpose	<p>This unit standard is intended for people working in the concrete construction industry.</p> <p>People credited with this standard can apply plans, working drawings, and specifications to concrete operations to the level of performance required of a commercially competent concrete tradesperson.</p>
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Classification	Concrete > Concrete Construction
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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 (Commercial and Civil Infrastructure) – Specifications* and the *New Zealand Certificate in Concrete Construction (Commercial and Civil Infrastructure) (Level 4)* [Ref: 4188], and 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 concrete operations.

2 Definitions

Concrete operations include the tasks and processes associated with undertaking concrete construction in commercial or civil infrastructure construction environments, structural concrete sawing and drilling on site, prestressing concrete or precast concrete manufacture. It does not include concrete production or transportation.

Workplace procedures refer 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 Construction (Commercial and Civil Infrastructure) – Specifications*, BCITO, October 2020,
- *New Zealand Certificate in Concrete (Specialist) – Specifications*, BCITO, October 2020.

Legislation accessed at www.legislation.govt.nz

- Building Act 2004
- Health and Safety at Work Act 2015
- Resource Management Act 1991
- 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*
- NZS 3109:1997 *Concrete construction*
- NZS 3124:1987 *Specification for concrete construction for minor works*
- NZS 4230:2004 *Design of reinforced concrete masonry structures*
- AS/NZS 4671:2019 *Steel for the reinforcement of concrete*.

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

- *Approved Code of Practice for Load-lifting Rigging*
- *Practical Guide for Working Safely With Hazardous Substances*
- *Approved Code of Practice for Powder-actuated, hand-held fastening tools*
- *Best Practice Guidelines for Working at height in New Zealand*
- *Good Practice Guidelines – Safe Work With Precast Concrete*
- *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

Apply plans, working drawings, and specifications to concrete operations.

Knowledge

The range and purposes of plans, working drawings and specifications used for concrete operations.

The use and meaning of drawing conventions, scales and symbols found in plans and working drawings used for concrete operations.

How to interpret the requirements in specifications used for concrete operations.

Range may include – requirements for quality, performance, materials, compatibility or process.

Skill

Apply information from plans, working drawings, and specifications to concrete operations.

Performance level guidance

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

Application of plans, working drawings and specifications must meet design requirements.

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 Waihanga 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.