

Title	Fabricate, assemble and dismantle formwork for concrete structures and foundations		
Level	3	Credits	10

Purpose	<p>This unit standard is intended for those working in the concrete construction industry.</p> <p>People credited with this standard are able to fabricate, assemble and dismantle formwork for concrete structures and foundations to commercial standards.</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 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 formwork construction.

2 Definition

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.

- 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

- Building Act 2004
- Construction Contracts Act 2002
- 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

- *The New Zealand Building Code*
- NZS 3101.1&2:2006 *Concrete structures*
- NZS 3109.1997 *Concrete construction*
- NZS 3114.1987 *Specification for concrete surface finishes*
- NZS 3124.1987 *Specification for concrete construction for minor works.*

Guidelines and Approved Codes of Practice accessed at www.worksafe.govt.nz for the following topics:

- *Manual handling*
- *Management of substances hazardous to health*
- *Management of noise*
- *Powder-actuated, hand-held fastening tools*
- *Power-operated elevating work platforms.*

Skill specification and performance level guidance

Skill specification

Fabricate, assemble and dismantle formwork for concrete structures and foundations.

Knowledge

The methods used to fabricate, assemble and dismantle different types of formwork for concrete structures and foundations.

Range types of formwork include – modular, gang, table, jump or climb, slipform, permanent systems, in-situ or custom made and in-ground.

The types and purpose of concrete joints used in concrete structures and foundations.

Range free movement and tied.

Skills

Fabricate, assemble and dismantle formwork for foundations, and structural and non-structural concrete elements.

Range fabrication includes – making from scratch and incorporating pre-made components.

Construct formwork detail to allow for the formation of concrete joints.

Performance level guidance

Performance must reflect current regulatory, industry and commercial standards relevant to formwork construction.

Construction of formwork must be according to design specifications.

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	28 October 2021	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 the Building and Construction Industry Training Organisation national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.