

Title	Finish concrete flatwork and off-form surfaces		
Level	3	Credits	4

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 finish concrete flatwork and off-form surfaces 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 placing and finishing concrete.

2 Definitions

Flatwork refers to concrete floor or paving, on ground and suspended, house floors, slabs, paths, patios, driveways or roads.

Finishing refers to a combination of levelling (screeding), floating, troweling and other treatments.

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

- 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

- NZS 3101.1&2:2006 *Concrete structures*
- NZS 3109:1997 *Concrete construction*
- NZS 3124:1987 *Specification for concrete construction for minor works*
- NZS 3114:1987 *Specification of concrete surface finishes*.

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*.

Skill specification and performance level guidance

Skill specification

Finish concrete flatwork and off-form surfaces.

Knowledge

The methods used to finish concrete flatwork.

Range includes – levelling (screeding), floating, trowelling and other treatments.

The methods for finishing around penetrations in a concrete surface.

The methods used for curing concrete.

Range includes – preventing moisture loss, water curing and accelerated curing.

The methods and materials used to wash and seal concrete surfaces.

The types of defects encountered in off-form concrete surfaces and methods used to remedy them.

Range defects include – honeycombing, blowholes, mortar loss, misalignment, plastic cracking, scaling and crazing;
remedies include – patching, tooling, acid etching, bleaching.

Skills

Finish concrete flatwork surfaces.

Finish concrete off-form surfaces.

Cure concrete.

Complete remedial work on finished concrete.

Wash and seal concrete surfaces.

Performance level guidance

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

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.