

<b>Title</b>	<b>Prepare a base for the construction of in-situ concrete structures</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	<p>This unit standard is intended for people working in the concrete construction industry.</p> <p>People credited with this standard can prepare a base for the construction of in-situ concrete structures to the level of performance required of a commercially competent tradesperson.</p>
----------------	---

<b>Classification</b>	Concrete > Concrete Construction
-----------------------	----------------------------------

<b>Available grade</b>	Achieved
------------------------	----------

---

## 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].

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 construction.

### 2 Definitions

*Design specifications* refers to the detailed description, characteristics, quantity, and quality, ratio and formation method of the material used in construction work.

*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](mailto:qualifications@waihanga.nz)

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

Legislation accessed at [www.legislation.govt.nz](http://www.legislation.govt.nz)

- Building Act 2004
- 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 3109:1997 *Concrete construction*.

Guidelines and Approved Codes of Practice accessed at [www.worksafe.govt.nz](http://www.worksafe.govt.nz)

- *Practical Guide for Working Safely With Hazardous Substances*
- *The Absolutely Essential Health and Safety Toolkit*
- *Good Practice Guidelines Excavation Safety*.

*New Zealand Guide to Concrete Construction 2011 (Revised Edition)* accessed at [www.concretenz.org.nz](http://www.concretenz.org.nz).

---

## Skill specification and performance level guidance

### Skill specification

Prepare a base for the construction of in-situ concrete structures.

### Knowledge

The requirements for carrying out safe groundwork excavation when preparing the base for in-situ concrete structures.

Range includes – identifying and avoiding services, regular stability checks, safe access and egress, collapse prevention and use of fall prevention barriers.

The types of excavation including methods used to prepare a base for in-situ concrete structures.

Range types may include – open excavations, potholing, pit excavations, trenches and retaining walls, shafts and drives.

The effects of ground works excavation on materials or spoil volume.

The types, properties and purposes of materials used to prepare the base for in-situ concrete structures.

The types and properties of damp proof membranes.

Range types of damp proof membranes include – emulsion, polythene sheet and self-adhesive membrane;  
evidence is required for a minimum of two types.

**Skills**

Prepare a base for in-situ concrete structures to meet design specifications.

Apply safe excavation practices to prepare a base for in-situ concrete structures.

**Performance level guidance**

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

<b>Planned review date</b>	31 December 2026
----------------------------	------------------

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	27 January 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0048
--	------

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](mailto:qualifications@waihanga.nz) if you wish to suggest changes to the content of this unit standard.