

|              |  |                |          |
|--------------|--|----------------|----------|
| <b>Title</b> | <b>Operate and maintain tools, plant and equipment used in concrete operations</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 operate and maintain tools, plant and equipment used in concrete operations 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], 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* 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,
- *New Zealand Certificate in Concrete (Specialist) – Specifications*, BCITO, October 2020.

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

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

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

---

## Skill specification and performance level guidance

### Skill specification

Operate and maintain tools, plant and equipment used in concrete operations.

### Knowledge

The purpose and procedures for use of hand tools used in concrete operations.

The purpose and procedures for operation of power tools used in concrete operations.

The purpose and procedures for operation of plant and equipment used in concrete operations.

The care and maintenance requirements of tools, plant, and equipment used in concrete operations.

Range care and maintenance includes – storage, cleaning, safety checks, repair, or replacement.

The purpose and correct use of different items of personal protective safety equipment used in concrete operations work.

**Skills**

Select, use and maintain a range of hand tools used in concrete operations.

Range includes – selecting correct tool for the task, safety checks, following safe use procedures.

Select, use and maintain a range of power tools used in concrete operations.

Range includes – selecting correct power tool for the task, safety checks, following safe operating procedures.

Select, use and maintain a range of plant and equipment used in concrete operations.

Range includes – selecting correct item of plant or equipment for the task, safety checks, following operating procedures.

Protect personal safety and the safety of others whilst operating tools, plant and equipment in a concrete operations workplace.

Prevent damage to material, property or plant when operating tools, plant and equipment in a concrete operations workplace.

**Performance level guidance**

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

Care, use and maintenance of tools, plant and equipment must reflect manufacturer's instructions and guidance.

Tools, plant and equipment are those used to perform concrete operations.

|                            |                  |
|----------------------------|------------------|
| <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 Waihangara Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihangara.nz](mailto:qualifications@waihangara.nz) if you wish to suggest changes to the content of this unit standard.