

<b>Title</b>	<b>Plan and carry out drilling operations on concrete structures</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	<p>This unit standard is intended for people working in the construction industry.</p> <p>People credited with this standard can plan and carry out drilling operations on concrete structures to the level of performance required of a commercially competent tradesperson.</p>
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<b>Classification</b>	Concrete > Concrete Construction
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Assessment

This unit standard is intended to align with 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 drilling.

### 2 Definitions

*Concrete structures* refer to unreinforced and reinforced concrete, structural concrete elements (precast, pre-stressed and post-tensioned), slabs, columns and beams and concrete masonry.

*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 (Specialist) – Specifications*, BCITO, October 2020.

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

- Resource Management Act 1991
- 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)

- *Practical Guide for Working Safely With Hazardous Substances*
- *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).

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## Skill specification and performance level guidance

### Skill specification

Plan and carry out drilling operations on concrete structures.

### Knowledge

The set-up requirements for concrete drilling operations.

The factors that influence the location, method and equipment used for concrete drilling.

Range factors include – access, ability of the concrete structure to withstand sawing activity, concrete composition, safety of personnel onsite and protection of property and the environment.

Methods used to protect the structure, elements, personnel and environment from concrete drilling operations.

Methods used to support the concrete mass during drilling and removal.

### Skills

Plan for concrete sawing operations.

Range includes – identifying drilling location, access and location of drilling equipment, calculating the quantity of concrete to be removed, determining the method and equipment required to support the concrete mass during drilling and removal, safety requirements.

Carry out drilling operations on concrete structures.

Protect the concrete structure from damage during drilling.

Protect people and the environment from concrete dust during drilling operations

## Performance level guidance

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

<b>Planned review date</b>	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

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