

Title	Cut and drill concrete for concrete construction on site		
Level	3	Credits	15

Purpose	People credited with this unit standard are able to: undertake routine maintenance of cutting and drilling equipment; set up for cutting and drilling concrete on site; cut concrete on site; drill concrete on site; form crack control joints in concrete on site; and complete work operations on site.
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Classification	Concrete > Concrete Construction
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Available grade	Achieved
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Guidance Information

1 Definitions

Specifications refers to documented instructions (oral, written, graphic) and may include any of the following: manufacturer's specifications, recommendations or technical data sheets; material specifications; specifications from a specialist source such as an architect, designer, engineer or a supervisor; site or work specific requirements.

Workplace practice refers to the documented procedures specific to a workplace which set out the standard and required practices of that workplace.

2 Credit for this unit standard indicates compliance with industry practice. *Industry practice* refers to the ability to demonstrate knowledge and skills that reflect the productivity, uniformity, finish quality and material economies currently accepted within industry.

3 Assessment against this unit standard must be undertaken on site. *On site* refers to a wide range of building and construction environments within which trade skills are required, and includes concrete production and concrete construction sites.

4 Legislation and publications relevant to this unit standard include: Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995; Resource Management Act 1991; NZS 3109:1997 *Concrete construction*, available from Standards New Zealand (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Undertake routine maintenance of cutting and drilling equipment.

Performance criteria

- 1.1 Equipment and attachments are checked prior to use in accordance with manufacturer's operational guidelines.
- Range blades, drill bits, leads, hoses, fuel, oil, water, connections.
- 1.2 Equipment and attachments are serviced routinely in accordance with manufacturer's operational guidelines.
- 1.3 Equipment and attachments are cleaned and serviced at the conclusion of each operation and at the end of the day in accordance with workplace practice.
- 1.4 Breakdowns are dealt with in accordance with workplace practice.

Outcome 2

Set up for cutting and drilling concrete on site.

Performance criteria

- 2.1 Locations for cutting and drilling concrete are marked out and checked in accordance with workplace practice.
- 2.2 Information on the location of existing reinforcing is obtained in accordance with workplace practice.
- 2.3 Blade and drill bits are selected and fitted in accordance with manufacturer's instructions and workplace practice.
- Range depth, width, diameter, wet or dry, type of diamond segment (eg hard, soft).
- 2.4 The equipment is set up and guards and safety equipment checked and confirmed as in place in accordance with manufacturer's instructions and workplace practice.
- 2.5 Workplace is checked for adequate ventilation.

Outcome 3

Cut concrete on site.

Performance criteria

- 3.1 The concrete is cut where marked in accordance with job specifications and to avoid existing reinforcing where required.
- 3.2 Off cuts are supported and debris is removed in accordance with workplace practice.
- 3.3 Wastewater and waste concrete are disposed of in accordance with legislation.

Outcome 4

Drill concrete on site.

Performance criteria

- 4.1 Concrete is drilled in accordance with job specifications and to avoid existing reinforcing where required.
- 4.2 Off cuts and debris are removed in accordance with workplace practice.

Outcome 5

Form crack control joints in concrete on site.

Performance criteria

- 5.1 Concrete is cut where marked in accordance with job specifications.

Outcome 6

Complete work operations on site.

Performance criteria

- 6.1 All operations are safely completed; workplace and equipment are cleaned in accordance with workplace practice and environmental safety requirements, and routine maintenance is carried out in accordance with workplace practice.

Replacement information	This unit standard and unit standard 26828 were replaced by unit standard 32688 and unit standard 32689.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 May 1999	31 December 2023
Revision	2	12 February 2003	31 December 2023
Review	3	26 July 2004	31 December 2023
Review	4	16 April 2010	31 December 2023
Review	5	28 October 2021	31 December 2023

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>.

This unit standard is expiring