

Title	Demonstrate knowledge of control procedures for concrete production		
Level	5	Credits	8

Purpose	People credited with this unit standard are able to describe: the role of quality assurance in concrete production; the quality scheme for ready mix concrete; the requirements for specialist tests; and the specifications for concrete mixes.
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Classification	Concrete > Concrete Technology
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Available grade	Achieved
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Guidance Information

Legislation and publications relevant to this unit standard include:

Health and Safety in Employment Act 1992;

NZS 3109:1997 *Concrete construction*, NZS 3104:2003 *Specification for concrete production*, available from Standards New Zealand (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Describe the role of quality assurance in concrete production.

Performance criteria

- 1.1 The terms quality, quality control and quality assurance are explained in terms of concrete production.
- 1.2 The methods that suppliers or customers can use to ensure that quality is maintained are identified in terms of industry standards.
- 1.3 The requirements for the quality control of precast items are outlined in terms of methods of sampling and compliance rules.

Outcome 2

Describe the quality scheme for ready mix concrete.

Performance criteria

- 2.1 The quality scheme for ready mix concrete is described in terms of its intentions and requirements.

Outcome 3

Describe the requirements for specialist tests.

Performance criteria

3.1 Compliance testing of concrete is described in terms of sampling and testing requirements.

Range sampling and testing requirements include but are not limited to – purchaser's risk, consumer's risk, compliance rules, specified strength requirements, quantity.

Outcome 4

Describe the specifications for concrete mixes.

Performance criteria

4.1 The uses of statistical methods in concrete mix design are explained in terms of their relevance to quality control procedures.

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Status information and last date for assessment for superseded versions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	23 May 2001	31 December 2023
Revision	2	16 July 2004	31 December 2023
Rollover and Revision	3	25 January 2008	31 December 2023
Rollover and Revision	4	17 November 2011	31 December 2023
Review	5	27 January 2022	31 December 2023

Consent and Moderation Requirements (CMR) reference

0048

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.