

Title	Demonstrate knowledge of concrete equipment and produce ready mixed concrete		
Level	3	Credits	18

Purpose	People credited with this unit standard are able to: demonstrate knowledge of equipment used to produce ready-mixed concrete; weigh and measure concrete mix components; dispense mix components and mix the concrete; and complete work operations.
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Classification	Concrete > Concrete Production
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Available grade	Achieved
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Guidance Information

- 1 Definition
Workplace practice refers to the documented procedures specific to a workplace which set out the standard and required practices of that workplace.
- 2 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.
- 3 Legislation and publications relevant to this unit standard include: Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995; NZS 3104:2003 *Specification for Concrete Production*, NZS 3111:1986 *Methods of test for water and aggregate for concrete*, and NZS 3121:1986 *Specification for water and aggregate for concrete*, available from Standards New Zealand (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of equipment used to produce ready-mixed concrete.

Performance criteria

- 1.1 Concrete batching and mixing equipment is described in terms of purpose and function.

Range weighing equipment, dispensing equipment, mixing equipment.

Outcome 2

Weigh and measure concrete mix components.

Performance criteria

2.1 Equipment is verified as complying with tolerances set out in NZS 3104.

2.2 Concrete mix components are selected to achieve specified mix in accordance with workplace practice.

Range cement, sand, aggregate, admixtures, water.

2.3 Concrete mix components are weighed and measured within tolerances set out in NZS 3104.

Range methods – manual or computer generated.

Outcome 3

Dispense mix components and mix the concrete.

Performance criteria

3.1 Concrete mix components are dispensed and mixed in accordance with the requirements of NZS 3104.

3.2 Workability of the specified mix is in accordance with customer requirements.

Outcome 4

Complete work operations.

Performance criteria

4.1 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.

4.2 All documentation is completed in accordance with NZS 3104.

Replacement information	This unit standard replaced unit standard 12011.
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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	11 December 2009	31 December 2023
Review	2	24 June 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