

Title	Carry out routine tests on fresh concrete		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to: collect fresh concrete samples; demonstrate knowledge of testing, and test, fresh concrete; and complete work operations.
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Classification	Concrete > Concrete Core Skills
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Available grade	Achieved
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Guidance Information

- Definitions**
Specifications refer 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.
- 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.
- Legislation and publications relevant to this unit standard include:
 Health and Safety at Work Act 2015
 Health and Safety in Employment Regulations 1995
 NZS 3104:2021 *Specification for concrete production*
 NZS 3109:1997 *Concrete construction*
 NZS 3112.1:1986 *Methods of test for concrete – Tests relating to fresh concrete*, available from Standards New Zealand <http://www.standards.govt.nz>.

Outcomes and performance criteria

Outcome 1

Collect fresh concrete samples.

Performance criteria

1.1 Samples are collected in accordance with NZS 3104 and job specifications.

Range snatch and representative fresh concrete samples as specified in NZS 3112.

Outcome 2

Demonstrate knowledge of testing, and test, fresh concrete.

Performance criteria

2.1 Methods for testing fresh concrete are identified and described in terms of method and purpose.

Range slump test, yield tests, air content tests, spread test.

2.2 Fresh concrete samples are tested in accordance with NZS 3112.

Range two of – slump test, yield tests, air content tests, spread test, making cylinders

Outcome 3

Complete work operations.

Performance criteria

3.1 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.

3.2 All documentation is completed in accordance with workplace practice.

Replacement information	This unit standard replaced unit standard 12019.
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Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 November 2009	31 December 2024
Review	2	24 November 2022	N/A

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>.

Comments on this unit standard

Please contact Waihangara Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaraarau.nz if you wish to suggest changes to the content of this unit standard.