

Carry out routine tests on fresh concrete

Level 3

Credits 5

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.

Subfield Concrete

Domain Concrete Core Skills

Status Registered

Status date 20 November 2009

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Planned review date 31 December 2014

Entry information Open.

Replacement information This unit standard replaced unit standard 12019.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) Building and Construction Industry Training Organisation

Accreditation and Moderation Action Plan (AMAP) reference 0048

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

Special notes

1 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.

- 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 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 3109:1997 *Concrete construction* and NZS 3112.1:1986 *Methods of test for concrete – Tests relating to fresh concrete*, available from Standards New Zealand (<http://www.standards.co.nz>).

Elements and performance criteria

Element 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.

Element 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.

Element 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.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Building and Construction Industry Training Organisation national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.