

Demonstrate knowledge, and carry out curing, of concrete

Level 2

Credits 8

Purpose People credited with this unit standard are able to: demonstrate knowledge of curing concrete; carry out curing of concrete; and complete work operations.

Subfield Concrete

Domain Concrete Core Skills

Status Registered

Status date 20 November 2009

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Entry information Open.

Replacement information This unit standard replaced unit standard 12033.

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 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>).

Elements and performance criteria

Element 1

Demonstrate knowledge of curing concrete.

Performance criteria

- 1.1 Curing of concrete is defined and explained in terms of process.
- 1.2 Factors affecting curing of concrete are described in terms of their effect on the strength and durability of the finished product.
- Range rate of moisture loss, temperature, mix design, rate of curing.
- 1.3 Methods to control curing of concrete are described, and considerations when selecting a curing method are explained in terms of end use of the finished product.
- Range four of – applied membrane, water, sheet membrane, steam, admixtures, applied heat, controlled environment.

Element 2

Carry out curing of concrete.

Range two of – applied membrane, water, sheet membrane, steam, admixtures, applied heat, controlled environment, proprietary spray.

Performance criteria

- 2.1 Conditions required for curing are met in accordance with job specifications and NZS 3109.
- Range moisture, temperature.
- 2.2 Curing period is identified and monitored in accordance with specifications and workplace practice.
- 2.3 Actions taken to correct any faults during curing are in accordance with specifications and workplace practice.
- 2.4 Curing is completed in accordance with workplace practice.

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.

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.