

Demonstrate knowledge of maintenance and transportation requirements to convey ready mixed concrete to sites by truck

Level 3

Credits 4

Purpose People credited with this unit standard are able to demonstrate knowledge of: routine concrete truck maintenance; factors that affect the transportation of ready mixed concrete by truck; and factors to be considered when assessing conditions for the delivery and discharge of ready mixed concrete by truck.

Subfield Concrete

Domain Concrete Production

Status Registered

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Entry information Open.

Replacement information This unit standard replaced unit standard 12039.

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 Definition
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 that reflects 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; Transport (Vehicle and Driver Registration and Licensing) Act 1986; Resource Management Act 1991; NZS 3104:2003 *Specification for Concrete Production*; available from Standards New Zealand (<http://www.standards.co.nz>).

Elements and performance criteria

Element 1

Demonstrate knowledge of routine concrete truck maintenance.

Performance criteria

- 1.1 Servicing and maintenance procedures for concrete trucks are described in accordance with workplace practice.
- Range oil check, water check, tyre check, fuel check, ancillary equipment check, truck safety systems check, regularly scheduled servicing, New Zealand Transport Agency requirements.
- 1.2 Cleaning requirements and methods for concrete trucks and ancillary equipment are described in accordance with legislative requirements and workplace practice.
- 1.3 Procedures for dealing with mechanical breakdowns are identified and described in accordance with workplace practice.

Element 2

Demonstrate knowledge of factors that affect the transportation of ready mixed concrete by truck.

Performance criteria

- 2.1 Factors contributing to truck rollover are described and actions for avoidance are explained in accordance with workplace practice.
- Range road surface, camber, corners, gradient, slosh effect, static rollover threshold, driver fatigue, speed.
- 2.2 Factors during transportation that impact on delivered ready mix concrete are described.
- Range water, additives, speed of mixer rotation, duration in transit, weather, temperature.

Element 3

Demonstrate knowledge of factors to be considered when assessing conditions for the delivery and discharge of ready mixed concrete by truck.

Performance criteria

- 3.1 Hazards associated with site access are identified and controls explained in accordance with legislation and workplace practice.
- Range six hazards and controls.
- 3.2 Factors affecting quality of concrete on site are explained in accordance with workplace practice.
- Range duration of discharge, water added, wait time, additives and admixtures.
- 3.3 Checks to be performed prior to discharge of concrete are identified and described.
- Range load matches docket, site access, location of pour.

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.