
CONCRETE CONSTRUCTION
Pre-tension pre-cast concrete

level:	3
credit:	15
planned review date:	July 2008
sub-field:	Construction Trades
purpose:	People credited with this unit standard are able to: set up for stressing; apply stressing force to strands; release stressing force; and complete work operations.
entry information:	Open.
accreditation option:	Evaluation of documentation and visit by NZQA and industry.
moderation option:	A centrally established national moderation system has been set up by the Building and Construction Industry Training Organisation.
special notes:	<ol style="list-style-type: none">1 Legislation relevant to this unit standard includes: Health and Safety in Employment Act, 1992.2 Reference material relevant to this unit standard includes: New Zealand Standard (NZS), NZS 3109:1997 Concrete construction. New Zealand Standards are available from Standards New Zealand, Wellington.3 Assessment against this unit standard must be undertaken on site. <i>On site</i> refers to a wide range of building and construction environments within which trade skills are required, and includes concrete production and concrete construction sites.

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Elements and Performance Criteria

element 1

Set up for stressing.

performance criteria

- 1.1 Materials and equipment are selected and prepared for stressing in accordance with workplace practice and NZS 3109.

Range: materials and equipment - barrels, wedges, hydraulic jacks, strands.

element 2

Apply stressing force to strands.

performance criteria

- 2.1 Stress force is applied to strands in accordance with workplace practice, NZS 3109, and job specification.

Range: factors to consider include - operation of hydraulic jacks, measurement of extension, reading pressure, checking wedges, checking for slip.

element 3

Release stressing force.

performance criteria

- 3.1 The specified minimum concrete strength at transfer is achieved prior to release of tendons.
- 3.2 Method used to release stress is in accordance with workplace practice, NZS 3109, and job specification.

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element 4

Complete work operations.

performance criteria

- 4.1 All operations are carried out with hazard control procedures in place for identified hazards in accordance with manufacturer's recommendations, site safety plan and Health and Safety in Employment Act, 1992.
- 4.2 Documentation is completed and processed in accordance with workplace practice.

Comments on this unit standard

Please contact the Building and Construction Industry Training Organisation bcitocs@xtra.co.nz if you wish to suggest changes to the content of this unit standard.

Please Note

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority 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 providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0048 which can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.