

FIELD PLANNING AND CONSTRUCTION**Rollover, Revision, and Review of *Concrete Construction, Concrete Production, Concrete Technology* unit standards****Revision and rollover of Construction Trades unit standards**

Subfield	Domain	Id
Construction Trades	Concrete Construction	18512-18515
	Concrete Technology	18340-18351

The Building and Construction Industry Training Organisation (BCITO) has decided that the unit standards listed above which were registered in May and July 2001 should have their period of registration extended.

The opportunity was also taken to update legislation and references in the special notes section of the unit standards.

The review of these unit standards is planned to take place during 2005.

Date new versions published **July 2004**

New comments by date **June 2005**

Expiry date of new versions of the unit standards **December 2005**

Review of Construction Trades unit standards

Subfield	Domain	Id
Construction Trades	Concrete Construction	12023, 12025-12042
	Concrete Production	12011-12019, 12024
	Concrete Technology	12020-12022

The Building and Construction Industry Training Organisation (BCITO) has completed the review of the unit standards listed above that were registered in May 1999.

Date new versions published **July 2004**

New comments by date **July 2008**

Expiry date of new versions of the unit standards **December 2009**

Summary of review and consultation process

BCITO National Office asked regional staff in July 2003 to comment and suggest changes to the cement and concrete unit standards. These were passed to an internal review group, who in November 2003 met to consider the unit standards and resources for cement and concrete.

In December 2003, the National Advisory Group for Cement and Concrete (NAG) met and considered the report from the internal review group. Additional minor changes to the unit standards suggested by the National Advisory Group were made.

In January 2004, the unit standards were amended, and internal and external consultation sought from the BCITO and National Advisory Group.

A final draft was developed and endorsed by Ian Shepherd, Business Development Manager.

Main changes resulting from the review

The review process resulted in the following changes to the unit standards:

- Unit standards amended to reflect current industry terminology.
- Outdated New Zealand Standards removed and unit standards amended to reflect current New Zealand Standards and legislation.
- Grammar refined.
- Safety requirements related to hazard control procedures that were duplicated in separate performance criteria, within one unit standard, now contained within a generic element for that unit standard.
- References to codes of practice in special notes were deleted.
- Unit standards 12030 and 12031 were classified as D category.
- Unit standards 12028, 12039, 12040, 12041, 12012, 12017, 12018, 12019 had their titles amended.
- Unit standard 12039 credits reduced from 10 to 8 credits.

Unit Standards categorised as category D expire at the end of December 2006.

Impact on existing provider accreditations

None.

Impact on existing qualifications

Qualifications that contain the reviewed standards or classifications are tabled below.

Affected	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following BCITO qualifications are affected by the outcome of this review and will be reviewed to take account of the changes in 2004.

Qualification title	Standard in the qualification
National Certificate in Concrete Construction with strands in Sitework, Pre-cast Concrete, and Placing and Finishing	12030
National Certificate in Concrete Construction (Specialist) with strands in Sitework, and Pre-cast Concrete	12031
National Certificate in Concrete Production (Ready-Mixed Concrete)	12039

The following qualification is not materially affected by the changes. It will be updated when it is next reviewed.

Qualification title	Classification or Id	SSB Name
National Certificate in Commercial Road Transport (Goods Service) with strands in Heavy Rigid Vehicle Driver, and Heavy Combination Vehicle Driver, and optional strands in Dairy Industry Transport, Log Transport, Overdimension and Overweight Load Transport, Bulk Flammable Liquids Transport, Bulk Gases Transport, Bulk Liquefied Petroleum Gas Transport, and Civil Construction Transport	12012, 12023, 12039	NZ Road Transport and Logistics ITO

Summary of main changes to standards' Ids, classification, titles, levels, and credits

The following summary shows the changes made to the standards as a result of the review. All changes are in **bold**.

Key to review category

- A** Dates changed, but no other changes are made - the replacement standard carries the same Id and a new version number
- B** Changes made, but the overall outcome remains the same - the replacement standard carries the same Id and a new version number
- C** Major changes that necessitate the registration of a replacement standard with a new Id
- D** Standard will expire and not be replaced

Subfield Construction Trades
Domain Concrete Construction

Id	Title	Level	Credit	Review Category
12023	Pump concrete	2	10	B
12025	Place and finish concrete for concrete construction	2	12	B
12026	Detail, cut and bend reinforcing steel for concrete construction	3	5	B
12027	Fix reinforcing steel for concrete construction	3	5	B
12028	Prepare moulds for pre-cast concrete Use moulds for pre-cast concrete	3	9	B
12029	Manufacture and fabricate moulds for pre-cast concrete	4	30	B
12030	Prepare, erect, position, and strip formwork for in-situ concrete construction up to 1.2m high	3	10	D
12031	Fabricate and erect formwork for in-situ concrete construction over 1.2m high	4	30	D
12032	Apply and repair specialist finishes to concrete surfaces	3	14	B
12033	Cure concrete	2	5	B
12034	Carry out surface dressing of concrete	2	5	B
12035	Carry out specialist structural repairs to concrete	3	18	B
12036	Pre-tension pre-cast concrete	3	15	B
12037	Post-tension concrete	3	20	B
12038	Carry out cement based grouting	2	10	B

Id	Title	Level	Credit	Review Category
12039	Transport ready-mixed concrete by concrete truck Explain maintenance and transportation requirements to convey ready mixed concrete to sites by truck	3	10 8	B
12040	Transport concrete by conveyor Distribute concrete by conveyor	2	3	B
12041	Take delivery of and erect pre-cast concrete units on site Coordinate delivery of and erect pre-cast concrete units on site	3	8	B
12042	Cut and drill concrete	3	15	B

Subfield Construction Trades
Domain Concrete Production

Id	Title	Level	Credit	Review Category
12011	Produce ready-mixed concrete	3	18	B
12012	Maintain concrete mixing equipment and machinery Maintain concrete batching equipment and machinery	2	5	B
12013	Produce pre-cast and site mixed concrete	3	5	B
12014	Coordinate receipt, batching and delivery of orders for concrete	3	8	B
12015	Maintain raw materials for concrete	2	5	B
12016	Produce pre-cast extruded concrete	3	20	B
12017	Handle, dispatch and load pre-cast concrete units Coordinate the handling, dispatch and loading of pre-cast concrete units	3	8	B
12018	Carry out glass reinforced concrete pre-cast production techniques Carry out glass reinforced concrete pre-cast production operations	3	15	B
12019	Carry out routine tests on concrete Carry out routine tests on fresh concrete	3	9	B
12024	Place and finish concrete for pre-casting	2	12	B

Subfield Construction Trades
Domain Concrete Technology

Id	Title	Level	Credit	Review Category
12020	Demonstrate knowledge of concrete materials technology	4	8	B
12021	Demonstrate knowledge of concrete construction technology	3	7	B
12022	Demonstrate knowledge of concrete specialist technology	4	7	B