

Title	Perform concrete batching in a concrete production plant		
Level	4	Credits	35

Purpose	<p>This unit standard is intended for people working in the concrete production industry.</p> <p>People credited with this unit standard are able to perform concrete batching to the level of performance required of a commercially competent concrete production batching operator.</p>
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Classification	Concrete > Concrete Production
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Available grade	Achieved
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Guidance Information

- 1 Recommended skills and knowledge
Unit 32759, *Demonstrate knowledge of concrete batching in a concrete production plant*, or demonstrate equivalent knowledge and skills.
- 2 Assessment
This unit standard is intended to align with the *New Zealand Certificate in Concrete Production – Specifications* and the *New Zealand Certificate in Concrete Production (Level 4)* [Ref: 4187].

Evidence for this standard must reflect commercial competence.

Commercial competence refers to the ability to demonstrate knowledge and skills in the context of the currently accepted requirements of a business operating in a commercial environment.

Commercial competence must be confirmed by a person with current expertise in concrete production.

- 3 Definitions
The *Plant Audit Scheme* sets out the operating regulations and practices for each production plant so accreditation requirements are met with the Concrete NZ Readymix Sector Group.
Workplace procedures refers to the documented procedures specific to a workplace which sets out the standard and the required practices of that workplace.

- 4 Legislation, standards and guidance information relevant to this standard includes the following; and any subsequent amendments and replacements:
New Zealand Certificate in Concrete Production – Specifications, BCITO, October 2020 available from www.bcito.org.nz.

Legislation accessed at www.legislation.govt.nz

- Building Act 2004
- Hazardous Substances and New Organisms Act 1996
- Health and Safety at Work Act 2015
- The New Zealand Building Code
- Land Transport Act 1998.

Standards accessed at www.standards.govt.nz

- NZS 3104:2003 *Specification for concrete production*
- NZS 3109:1997 *Specification for concrete construction*.

Guidelines and Approved Codes of Practice

- *The Absolutely Essential Health and Safety Toolkit for Small Construction Sites*, and other WorkSafe NZ publications available from www.worksafe.govt.nz
- *A Guide to Concrete Construction* available from www.concretenz.org.nz
- *The Plant Audit Scheme* available from www.concretenz.org.nz.

Skill specification and performance level guidance

Skill specification

Perform concrete batching in a concrete production plant.

Skills

Perform prestart and end of day inspections, cleaning, and maintenance of batching area.

Complete aggregate quality checks and make aggregate moisture adjustments if required.

Range checks include – contamination, size, shape, moisture testing.

Weigh and load materials within the permitted tolerances of New Zealand Standards.

Range materials include – aggregate, cement, water, additives, admixtures.

Review weighed and metered quantities of material against concrete mix design, analyse records for incorrect weights, and make any required adjustments before mixing.

Batch loads within correct tolerances of concrete mix designs.

Visually assess the concrete mix for consistency with the mix design and adjust if required.

Complete batching job documentation to meet record keeping.

Performance level guidance

Performance must reflect plant audit scheme requirements, NZS 3104 and workplace procedures.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 June 2021	N/A

Consent and Moderation Requirements (CMR) reference	0048
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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.