

Title	Calibrate batching equipment in a concrete production plant		
Level	4	Credits	10

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 calibrate batching equipment in a concrete production plant to the level of performance required of a commercially competent concrete production operator.</p>
----------------	---

Classification	Concrete > Concrete Production
-----------------------	--------------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 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.

- 2 **Definitions**
 The *Plant Audit Handbook* 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.
- 3 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*.

Best practice and good practice guidelines

- 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 (CCANZ)
- *The Plant Audit Scheme* available from www.concretenz.org.nz.

Skill specification and performance level guidance

Skill specification

Calibrate batching equipment in a concrete production plant.

Knowledge

The audit requirements and documentation processes for scale and metre calibrations.

The procedures and requirements to perform pre-calibration and calibration checks of batching equipment, and the procedures for repairing out of calibration batching equipment.

Range includes – routine checks, procedures after repair;
repair includes servicing by a specialist technician.

How incorrect calibration of equipment can result in the over or under use of materials when comparing mix design and production to material stock supplies.

Skills

Perform pre-calibration safety procedures.

Range lockout procedures, staffing levels, job safety analysis.

Perform calibration checks of weighing scales, weigh and measure made weights, compare results to known standard weights and recalibrate as required.

Operate flow meters to agreed volume, compare readout to known volume and recalibrate as required.

Record and report calibration outcomes as required.

Performance level guidance

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

Planned review date	31 December 2026
----------------------------	------------------

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
--	------

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.