

Title	Manufacture and fabricate moulds for precast concrete		
Level	4	Credits	30

Purpose	People credited with this unit standard are able to: determine requirements for moulds; manufacture and fabricate moulds for precast concrete; and complete work operations.
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Classification	Concrete > Precast Concrete
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Available grade	Achieved
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Guidance Information

- 1 Definitions
Specifications refer to documented instructions (oral, written, graphic) and may include any of the following: manufacturer’s specifications, recommendations or technical data sheets; material specifications; specifications from a specialist source such as an architect, designer, engineer or a supervisor; site or work specific requirements.
Workplace practice refers to the documented procedures specific to a workplace which set out the standard and required practices of that workplace.
- 2 For the purpose of this unit standard, moulds can be one-sided.
- 3 Assessment against this unit standard must be undertaken on site. *On site* refers to a wide range of building and construction environments within which trade skills are required, and includes concrete production and concrete construction sites.
- 4 Credit for this unit standard indicates compliance with industry practice. *Industry practice* refers to the ability to work unsupervised, demonstrating knowledge and skills that reflect the uniformity, finish quality, and material economies currently accepted within industry.
- 5 Legislation and publications relevant to this unit standard include:
 Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995;
 NZS 3109:1997 *Concrete construction* and NZS 3114:1987 *Specification for concrete surface finishes*, available from Standards New Zealand (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Determine requirements for moulds.

Performance criteria

1.1 Requirements for moulds are determined in accordance with drawings, job specifications, NZS 3109, and NZS 3114.

Range dimensional tolerances, finish requirements, sealing, release tapers, concrete pressures, grout losses, form removal, final product.

Outcome 2

Manufacture and fabricate moulds for precast concrete.

Range mould types – three of: panel, beam, column, stairs, tank, tank component, pipe.

Performance criteria

2.1 Tools for manufacture and fabrication of mould are selected in accordance with the type of mould to be produced.

2.2 Mould components are manufactured in accordance with NZS 3109, NZS 3114, and job specifications.

2.3 Mould is fabricated from components in accordance with NZS 3109, NZS 3114, and job specifications.

Range fabrication process – place ferrules, fitments and form penetrations, supports, braces.

Outcome 3

Complete work operations.

Performance criteria

3.1 All operations are safely completed, workplace and equipment are cleaned in accordance with workplace practice and environmental safety requirements, and routine maintenance is carried out in accordance with workplace practice.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 May 1999	31 December 2023
Revision	2	12 February 2003	31 December 2023
Review	3	26 July 2004	31 December 2023
Review	4	20 November 2009	31 December 2023
Review	5	28 October 2021	31 December 2023

Consent and Moderation Requirements (CMR) reference

0048

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.