

<b>Title</b>	<b>Place and finish concrete for precasting</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to: place, compact and screed concrete for precasting; apply finish to concrete surfaces; and complete work operations.
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<b>Classification</b>	Concrete > Precast Concrete
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<b>Available grade</b>	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 Credit for this unit standard indicates compliance with industry practice. *Industry practice* refers to the ability to demonstrate knowledge and skills that reflect the productivity, uniformity, finish quality, and material economies currently accepted within industry.
- 4 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.
- 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;  
 Resource Management Act 1991;  
 NZS 3109:1997 *Concrete construction* and NZS 3114:1987 *Specification for concrete surface finishes*, available from Standards New Zealand (<http://www.standards.co.nz>).

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## Outcomes and performance criteria

### Outcome 1

Place concrete for precasting.

#### Performance criteria

- 1.1 Preparation for placing is in accordance with NZS 3109 and job specifications.
- 1.2 Concrete is placed in accordance with NZS 3109 and job specifications.
- Range factors to be checked – three of: concrete strength, slump, segregation, layers, screeding, continuity of supply.
- 1.3 Reinforcing and other cast-in items are maintained in their original state and position.

### Outcome 2

Compact and screed concrete for precasting.

#### Performance criteria

- 2.1 Vibrating and screeding method is compatible with the type of concrete and concreting activity and is selected to achieve the required density of concrete in accordance with NZS 3109 and job specifications.
- Range factors to consider – depth of concrete, finish required, type of mould, equipment.
- 2.2 Compaction of concrete is achieved in accordance with NZS 3109 and job specifications.

### Outcome 3

Apply finish to concrete surfaces.

#### Performance criteria

- 3.1 Wet concrete surfaces are finished in accordance with NZS 3109, NZS 3114, and job specifications.
- Range two of – surface retarders, mechanical surface tooling, manual surface tooling.

### Outcome 4

Complete work operations.

**Performance criteria**

- 4.1 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
Revision	4	25 January 2008	31 December 2023
Review	5	20 November 2009	31 December 2023
Review	6	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>.