

<b>Title</b>	<b>Place and finish concrete for concrete construction on site</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, for concrete construction on site: prepare to place concrete; place concrete; compact concrete; apply finish to concrete surfaces; and complete work operations.
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<b>Classification</b>	Concrete > Concrete Construction
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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 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 the concrete industry.

### 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 Legislation and publications relevant to this unit standard include:

Health and Safety at Work Act 2015

Health and Safety in Employment Regulations 1995

Resource Management Act 1991

NZS 3109:1997 *Concrete construction*

NZS 3114:1987 *Specification for concrete surface finishes*, available from Standards New Zealand <http://www.standards.govt.nz>.

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## Outcomes and performance criteria

### Outcome 1

Prepare to place concrete for concrete construction on site.

**Performance criteria**

1.1 Requirements for the pour are determined from job specifications and in accordance with workplace practice.

Range site access, concrete supply, concrete specification, method of transporting concrete to the pour, timing and sequencing the pour, task lighting, personnel and equipment, delegation of responsibilities, contingencies.

1.2 Preparation for placing is checked and confirmed in accordance with NZS 3109 and job specifications.

**Outcome 2**

Place concrete for concrete construction on site.

**Performance criteria**

2.1 Documentation relating to concrete is checked to ensure concrete is in accordance with job specifications.

2.2 Concrete is placed and compacted in accordance with NZS 3109 and job specifications.

Range factors to be checked – compaction, prevention of segregation, pour sequence, screeding, continuity of supply.

2.3 Reinforcement and other cast-in items are maintained in their original state and position.

**Outcome 3**

Compact concrete for concrete construction on site.

**Performance criteria**

3.1 Vibrating and screeding method is selected for the type of concrete and concreting activity 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 formwork, equipment.

3.2 Compaction of concrete is completed in accordance with NZS 3109 and job specifications.

**Outcome 4**

Apply finish to concrete surfaces on site.

**Performance criteria**

- 4.1 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, surface protection in plastic state, surface protection once finished.

**Outcome 5**

Complete work operations.

**Performance criteria**

- 5.1 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.

<b>Replacement information</b>	This unit standard replaced unit standard 12025.
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<b>Planned review date</b>	31 December 2027
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	20 November 2009	31 December 2024
Review	2	24 November 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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 Waihangara Ara Rau Construction and Infrastructure Workforce Development Council [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) if you wish to suggest changes to the content of this unit standard.