

<b>Title</b>	<b>Coordinate delivery of and erect precast concrete units on site</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	People credited with this unit standard are able to: conduct pre-erection planning for precast concrete units; coordinate the off-loading of precast concrete units on site; coordinate the stacking of pre-cast concrete units; erect pre-cast concrete units in place on site; and complete work operations on site.
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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* refers 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.

*Work site practice* refers to the documented procedures specific to a work site which set out the standard and required practices of that work site.

#### 2 Credit for this unit standard indicates compliance with industry practice. *Industry practice* refers to the ability to demonstrate knowledge that reflects the productivity, uniformity, finish quality and material economies currently accepted within 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 in Employment Act 1992 and Health and Safety in Employment Regulations 1995;

Building Act 2004;

Approved Code of Practice for the safe Handling, Transportation and Erection of Precast Concrete, available from Occupational Safety and Health

(<http://www.osh.govt.nz/order/catalogue/pdf/concrete-ac.pdf>);

NZS 3104:2003 *Specification for concrete production* and NZS 3109:1997 *Concrete construction*, available from Standards New Zealand (<http://www.standards.co.nz>).

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## Outcomes and performance criteria

### Outcome 1

Conduct pre-erection planning for precast concrete units.

#### Performance criteria

1.1 Planning includes logistics of crane operations.

Range rotation of elements, ground conditions, overhead conditions, safety, crane ratings, access requirements.

1.2 The falsework/propping design is interpreted to determine job requirements.

### Outcome 2

Coordinate the off-loading of precast concrete units on site.

#### Performance criteria

2.1 Precast concrete units are verified on delivery as complying with specified requirements.

2.2 Precast concrete units are lifted in accordance with work site practice.

Range lifting equipment – inserts, bolt holes, lifting clutches, lifting beams, chain angles, hooks, strops, crane, use of dunnage points.

### Outcome 3

Coordinate the stacking of precast concrete units.

#### Performance criteria

3.1 Precast concrete units are stacked in accordance with work site practice, ensuring protection from damage, deterioration and contamination.

Range factors to consider – accumulation of trapped water, efflorescence, stain or damage by airborne pollutants, rust deposits, chafing and disfiguring, mishandling, dunnage points, access, free movement, use of supports, packaging, temporary protection.

### Outcome 4

Erect precast concrete units in place on site.

**Performance criteria**

- 4.1 Precast concrete units are lifted in accordance with work site practice.
- Range lifting equipment – inserts, bolt holes, lifting eyes, lifting beams, chain angles, hooks, strops, crane.
- 4.2 Precast concrete units are placed in position in accordance with specifications and falsework/propping design.
- Range one of – precast beam, precast flooring, precast panel, precast stairs.
- 4.3 Post erection check is performed to verify erection against specifications, and any required actions are taken in accordance with work site practice.
- Range alignment, location, propping/falsework.

**Outcome 5**

Complete work operations on site.

**Performance criteria**

- 5.1 All operations are safely completed; workplace, tools, plant and equipment are cleaned; and tools, plant and equipment are stored in accordance with work site practice.
- 5.2 Documentation is completed and processed in accordance with work site 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 2024
Revision	2	12 February 2003	31 December 2024
Review	3	26 July 2004	31 December 2024
Review	4	16 April 2010	31 December 2024
Review	5	24 November 2022	31 December 2024

**Consent and Moderation Requirements (CMR) reference**

0048

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