

<b>Title</b>	<b>Fabricate and place reinforcing for concrete product manufacture</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	People credited with this unit standard are able, for concrete product manufacture, to: prepare to fabricate reinforcing; fabricate reinforcing; place reinforcing; and complete work operations.
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<b>Classification</b>	Concrete > Concrete Product Manufacture
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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 industry.

#### 3 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; New Zealand Building Code; 3109:1997 *Concrete construction*, available from Standards New Zealand (<http://www.standards.co.nz>).

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### Outcomes and performance criteria

#### Outcome 1

Prepare to fabricate reinforcing for concrete product manufacture.

**Performance criteria**

- 1.1 Job requirements for reinforcing are determined in accordance with job specifications.
- Range configuration, type and grade of reinforcing, diameter, tying or fixing style, prefabricated/in-place.
- 1.2 Components for reinforcing are selected and assembled in accordance with job requirements.
- 1.3 Tools, equipment, and personal protective equipment for assembling reinforcing are selected in accordance with job requirements and workplace practice.
- 1.4 Checks of reinforcing materials are completed in accordance with job requirements and workplace practice.
- Range physical damage, rusting, distribution, contamination, mill scale.

**Outcome 2**

Fabricate reinforcing for concrete product manufacture.

**Performance criteria**

- 2.1 Any required cutting and bending of reinforcing material is carried out in accordance with job specifications.
- 2.2 Reinforcing is assembled in accordance with job specifications.
- Range layout, tying or fixing, inclusion of ancillary fixings.

**Outcome 3**

Place reinforcing for concrete product manufacture.

**Performance criteria**

- 3.1 Reinforcement is lifted, oriented, and placed in accordance with job requirements and workplace practice.
- 3.2 Reinforcing is fixed in position in accordance with NZS 3109 and job specifications.
- 3.3 Cover allowances for reinforcing are in accordance with job specifications.
- 3.4 Cast-in items are positioned and fixed in accordance with job requirements.
- Range lifting system cast-in items, product related cast-in items.

**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	20 November 2009	31 December 2023
Review	2	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>.