

<b>Title</b>	<b>Demonstrate knowledge of concrete reinforcement</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of concrete reinforcement.
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<b>Classification</b>	Concrete > Concrete Technology
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<b>Available grade</b>	Achieved
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### Guidance Information

Legislation and publications relevant to this unit standard include:

Health and Safety in Employment Act 1992;

NZS 3109:1997 *Concrete construction*, NZS 3104:2003 *Specification for concrete production*, NZS 3101 Parts 1 and 2:1995 *Concrete structures standard – The design of concrete structures*, available from Standards New Zealand (<http://www.standards.co.nz>).

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of concrete reinforcement.

#### Performance criteria

- 1.1 The relationship between concrete and reinforcement is explained in terms of grades of concrete used, strengths, and how the bond is developed.
- 1.2 The properties of reinforcement are described in terms of thickness of cover, high-yield and mild steel reinforcement, uses and appearance of different types of reinforcement.
- 1.3 The application of steel fabric and expanded metal reinforcement is described in terms of fixing details.
- 1.4 Methods of fixing and locating reinforcement are identified in terms of tolerance and locating reinforcement.
- 1.5 Reinforcement drawings and bending schedules are interpreted in terms of tolerances in cutting and bending reinforcement.

**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**Status information and last date for assessment for superseded versions**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	23 May 2001	31 December 2023
Revision	2	16 July 2004	31 December 2023
Rollover and Revision	3	25 January 2008	31 December 2023
Rollover and Revision	4	17 November 2011	31 December 2023
Review	5	27 January 2022	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>.