

Title	Demonstrate knowledge of using reinforcing steel for construction		
Level	3	Credits	1

Purpose	People credited with standard can demonstrate knowledge of: <ul style="list-style-type: none"> • using reinforcing steel for construction; and • health and safety for using reinforcing steel for construction.
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Classification	Construction Trades > Carpentry
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Available grade	Achieved
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Guidance Information

1 Range

Evidence generated for assessment against this standard must reflect workplace and industry requirements specified in:

- documented worksite specifications, procedures, and practices;
- manufacturer recommendations, specifications, and technical data sheets;
- applicable specifications from other sources such as an architect, designer, engineer, or supervisor;
- applicable material safety data sheets;
- NZS 3109:1997 *Concrete construction*;
- NZS 3604:2011 *Timber Framed Buildings*;
- NZS 4230:2004 *Design of reinforced concrete masonry structures*;
- the New Zealand Building Code.

Evidence generated for assessment against this standard must reflect the requirements of:

- Building Act 2004
- Health and Safety at Work Act 2015
- Resource Management Act 1991
- Building Regulations 1992
- Building (Forms) Regulations 2004
- Health and Safety in Employment Regulations 1995.

2 References

NZS 3109:1997 *Concrete construction*.

NZS 3604:2011 *Timber Framed Buildings* (SNZ).

NZS 4230:2004 *Design of reinforced concrete masonry structures*.

Available from Standards NZ (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of using reinforcing steel for construction.

Performance criteria

- 1.1 Describe the properties and purpose of types of reinforcing steel used in construction.
- Range round bars, deformed bars, high-yield bars, mesh.
- 1.2 Describe how to select, place, and secure reinforcing steel.
- Range footings, pads, foundation walls, floor slabs; cutting and bending, tying.
- 1.3 Calculate the required lengths and quantities of reinforcing steel for a construction job.
- 1.4 Describe how to store reinforcing steel to prevent damage or deterioration.

Outcome 2

Demonstrate knowledge of health and safety for using reinforcing steel for construction.

Range labour, identification of hazards and controls, plant; plant includes – any machinery, vehicle, vessel, aircraft, equipment (including personal protective equipment), appliance, container, implement, or tool; any component of any of those things; anything fitted or connected to any of those things; personal protective equipment includes – anything used or worn by a person (including clothing) to minimise risks to the person's health and safety; air supplied respiratory equipment.

Performance criteria

- 2.1 Identify and describe health and safety requirements for working with reinforcing steel used for construction.

Replacement information	This unit standard and unit standard 13046 replaced unit standard 610.
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Planned review date	31 December 2026
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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
Review	2	26 February 2002	31 December 2023
Review	3	25 January 2008	31 December 2023
Review	4	30 September 2021	N/A

Consent and Moderation Requirements (CMR) reference

0048

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

Comments on this unit standard

Please contact the Building and Construction Industry Training Organisation at national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.