

Title	Install reinforcing steel used for footings and foundations for concrete slab construction under supervision		
Level	3	Credits	4

Purpose	People credited with this standard can, under supervision: <ul style="list-style-type: none"> • install reinforcing steel used for footings and foundations for concrete slab construction; and • clean and store plant, tools, and equipment used to install reinforcing steel for footings and foundations for concrete slab construction.
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Classification	Construction Trades > Carpentry
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Available grade	Achieved
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Guidance Information

- 1 Scope of practice**
 Working *under supervision* means the ability to work to construction workplace standards under the supervision of a commercially competent practitioner whose role is to ensure the completed construction meets industry and regulatory requirements. This standard does not recognise commercial competence.
- 2 Assessment**
 This unit standard must be assessed under the supervision of a commercially competent practitioner in construction workplace conditions that reflect:

 - current health, safety, industry, and workplace requirements; and
 - industry requirements for commercially acceptable timeframes.

Evidence generated for assessment against this standard must be verified by a person who has current expertise in the building and construction trades and has had the opportunity to regularly observe the candidate in the workplace.
- 3 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.

4 References

NZS 3109:1997 *Concrete construction*. Available from Standards NZ

(<http://www.standards.co.nz>).

NZS 3604:2011 *Timber Framed Buildings*. Available from Standards NZ

(<http://www.standards.co.nz>).

NZS 4230:2004 *Design of reinforced concrete masonry structures*. Available from Standards NZ (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Install reinforcing steel used for footings and foundations for concrete slab construction under supervision.

Range bars, mesh, stirrups, links, starter bars.

Performance criteria

1.1 Receive and store reinforcing steel for a concrete slab construction job.

1.2 Fabricate reinforcing steel to specification for concrete slab construction.

1.3 Select, place, and secure reinforcing steel for a concrete slab construction job.

Range one of – floor slab, slab-on ground;
two of – footings, foundations, ground beams, walls, masonry;
must include – bending, cutting, tying.

Outcome 2

Clean and store plant, tools, and equipment used to install reinforcing steel for footings and foundations for concrete slab construction.

Range 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 Clean workplace, tools, and plant used to install reinforcing steel for footings and foundations for concrete slab construction.
- 2.2 Store tools, plant and equipment used to install reinforcing steel for footings and foundations for concrete slab construction.

Replacement information	This unit standard and unit standard 13009 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
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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 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.