

Title	Explain health and safety requirements and work safely during steel fixing		
Level	3	Credits	3

Purpose	People credited with this standard can: <ul style="list-style-type: none"> – explain health and safety requirements during steel fixing; and – work safely during steel fixing.
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Classification	Concrete > Concrete Construction
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Available grade	Achieved
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Guidance Information

- 1 Legislation and standards relevant for this unit standard are:
 - Building Act 2004;
 - Health and Safety at Work Act 2015;
 - Building Regulations 1992;
 - NZS 3109:1997 *Concrete construction*;
 - AS/NZS 4671:2019 *Steel for the reinforcement of concrete*.

- 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;
 - 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 or infrastructure trades and has had the opportunity to regularly observe the candidate in the workplace.

- 3 Work must be completed without injury to personnel or damage to products and equipment. Any required hazard control procedures must be in place and personal protective equipment must be used to meet regulatory and worksite requirements.

- 4 Evidence generated for assessment against this standard must reflect workplace and industry requirements specified in:
 - health and safety plans;
 - environmental plans;
 - project documents;
 - manufacturer’s recommendations, specifications, technical data sheets;
 - applicable material safety data sheets.

5 Definition

Industry requirements may refer to but are not limited to relevant policies, processes, methodologies, industry codes of practice, site specific health and safety plans, standard operating procedures, site safety plans, quality plans, work plans, traffic management plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer's requirements, contract specifications, manuals, and procedural documents

Outcomes and performance criteria

Outcome 1

Explain health and safety requirements for steel fixing operations.

Performance criteria

1.1 Mandatory site induction before entering a site is explained in accordance with employer and industry requirements.

1.2 Workplace practices specific to a site are explained in terms of industry requirements and own role and responsibilities.

Range may include but is not limited to – code of conduct, safety briefings, site communication protocols, employer environmental or health and safety policies, working with other trades, toolbox meetings, pre-starts, protruding bars (both vertical and horizontal) capped for safety.
evidence of six workplace practices is required.

1.3 Site requirements for wearing personal protective equipment (PPE) and personal health and well-being are explained in terms of industry requirements.

1.4 Workplace requirements for working at height and with scaffolding are explained in accordance with industry requirements.

Outcome 2

Work safely during steel fixing operations.

Performance criteria

2.1 Steel fixing tools are checked, maintained, and the safe operation is explained in accordance with industry requirements.

Range tools may include but are not limited to – mesh cutters, grinder, cutter, petrol cutters, tie guns, stands, nips.
evidence of three tools is required.

2.2 Participation in tool-box meetings and pre-start checks is demonstrated in accordance with industry requirements.

- 2.3 Site hazards and unsafe practices are actioned and communicated to relevant site personnel in accordance with the site safety plan.
- 2.4 Tools, plant, and equipment are cleaned and stored safely, and work area is tidy on completion of a work.
- 2.5 Safe lifting, carrying and placement techniques are demonstrated during steel fixing operations.
- Range long bars up to 5 metres, two-person lifts, three-person lifts, stirrups, mesh.
- 2.6 Managing risks with lock compression plate (LCP) over incomplete reinforcing mats and uneven surfaces is demonstrated during steel fixing operations.
- 2.7 Faults are reported, work area is cleaned, and materials are disposed of, reused, or recycled.
- 2.8 Bars are inserted into beams, topping steel, or tight situations using clear communication and safe practices.
- 2.9 Bar caps are applied to projecting bars.

Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 August 2022	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 Waihangā Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihanga.nz if you wish to suggest changes to the content of this unit standard.