

<b>Title</b>	<b>Fix reinforcing into formwork for concrete structures in-situ</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This unit standard is intended for those working in the concrete construction industry.</p> <p>People credited with this standard are able to fix reinforcing into formwork for concrete structures in-situ to commercial standards.</p>
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<b>Classification</b>	Concrete > Concrete Construction
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Assessment

This unit standard is intended to align with the *New Zealand Certificate in Concrete Construction Skills Specifications* and the *New Zealand Certificate in Concrete Construction Skills (Level 3)* [Ref: 4189].

Evidence for this standard must reflect commercial standards.

Commercial standards refer to verbal and written information covering company policy, standard operating procedures and processes, and job-specific instructions.

Working to commercial standards refers to the ability to consistently:

- perform standard processes to current industry standards, on demand and within a commercially acceptable timeframe;
- perform non-standard processes to current industry standards, on demand and within a commercially acceptable timeframe, under the supervision of a commercially competent practitioner.

Working to commercial standards must be confirmed by a person with current expertise in fixing reinforcing.

### 2 Definitions

*Fixing reinforcing* refers to the process to cut, bend and fix reinforcing structures into formwork for the construction of a concrete structure or foundation in situ.

*Workplace procedures* refer to the documented procedures specific to a workplace that set out the standards and required practices of that workplace.

- 3 Legislation, standards and guidance information relevant to this standard includes the following; and any subsequent amendments and replacements.

*New Zealand Certificate in Concrete Construction Skills – Specifications*, BCITO, May 2021, accessed at [www.bcito.org.nz](http://www.bcito.org.nz).

Legislation accessed at [www.legislation.govt.nz](http://www.legislation.govt.nz)

- Building Act 2004
- Health and Safety at Work Act 2015
- Resource Management Act 1991
- Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

Standards accessed at [www.standards.govt.nz](http://www.standards.govt.nz)

- NZS 3101.1&2:2006 *Concrete structures*
- NZS 3109:1997 *Concrete construction*
- NZS 4230:2004 *Design of reinforced concrete masonry structures*
- AS/NZS 4671:2019 *Steel for the reinforcement of concrete*.

Guidelines and Approved Codes of Practice accessed at [www.worksafe.govt.nz](http://www.worksafe.govt.nz) for the following topics:

- *Load-lifting rigging*
- *Manual handling*.

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## Skill specification and performance level guidance

### Skill specification

Fix reinforcing into formwork for concrete structures in-situ.

### Knowledge

The different methods used for cutting and bending reinforcing steel.

The different methods used to fix reinforcing into formwork.

### Skills

Select reinforcing steel for concrete structures.

Range according to design specification.

Cut, bend and fix reinforcing into formwork for concrete structures.

Range may include – slab, footings, foundations, ground beams, walls, and other in-situ concrete structures.

### Performance level guidance

Performance must reflect current regulatory, industry and commercial standards relevant to fixing reinforcing and workplace procedures.

Reinforcing structures include pre-fabricated components and individual components requiring fabrication in-situ.

<b>Replacement information</b>	This unit standard replaced unit standard 12027.
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<b>Planned review date</b>	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	28 October 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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 [national.office@bcito.org.nz](mailto:national.office@bcito.org.nz) if you wish to suggest changes to the content of this unit standard.