

<b>Title</b>	<b>Demonstrate knowledge of formwork for footings and foundation walls up to 1.2 metres tall</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with standard can demonstrate knowledge of: <ul style="list-style-type: none"> <li>• formwork for footings and foundation walls up to 1.2 metres tall; and</li> <li>• health and safety for constructing and erecting formwork and foundation walls up to 1.2 metres tall.</li> </ul>
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<b>Classification</b>	Construction Trades > Carpentry
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<b>Available grade</b>	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>).

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of formwork for footings and foundation walls up to 1.2 metres tall.

Range shutters, stud, sheathing.

### Performance criteria

1.1 Describe how to construct and erect formwork for footings and foundation walls up to 1.2 metres tall.

Range line, level and plumb; specified tolerances; openings; chases; pipes; wires; joints; fixing materials; height; bracing; ties.

1.2 Calculate the required quantities of materials for a formwork job.

1.3 Describe how to dismantle formwork for minimal damage and maximum re-usability.

### Outcome 2

Demonstrate knowledge of health and safety for constructing and erecting formwork and foundation walls up to 1.2 metres tall.

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 constructing and erecting formwork and foundation walls up to 1.2 metres tall.

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<b>Replacement information</b>	This unit standard and unit standard 13045 replaced unit standard 609.
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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	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](mailto:national.office@bcito.org.nz) if you wish to suggest changes to the content of this unit standard.