

<b>Title</b>	<b>Demonstrate knowledge of erecting in situ high wall, column, beam, and slab falsework and formwork</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe factors relating to falsework and formwork for in situ concrete; and describe the erection of falsework and formwork for high walls, columns, beams, and slabs.
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<b>Classification</b>	Construction Trades > Carpentry Theory
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Definition  
*Specifications* refers to documented instructions (oral, written, graphic) and may include any of the following: manufacturer's specifications, recommendations or technical data sheets; material specifications; specifications from a specialist source such as an architect, designer, engineer or a supervisor; site or work specific requirements.
- 2 Credit for this unit standard indicates compliance with industry practice. *Industry practice* refers to the ability to demonstrate knowledge that reflects the uniformity, finish quality and material economies currently accepted within industry.
- 3 Legislation relevant to this unit standard includes:  
Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995;  
Building Act 2004;  
Resource Management Act 1991;  
New Zealand Building Code;  
NZS 3109:1997 *Concrete construction*, and NZS 3124:1987 *Specification for concrete construction for minor works*, available from Standards NZ (<http://www.standards.co.nz>).

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### Outcomes and performance criteria

#### Outcome 1

Describe factors relating to falsework and formwork for in situ concrete.

Range high wall, column, suspended beam, slab.

**Performance criteria**

- 1.1 Falsework and formwork are described in terms of its purpose and uses.  
 Range falsework – timber propping, proprietary systems;  
 formwork – fixed shuttering, slip forms, jump forms, permanent formwork.
- 1.2 Falsework and formwork are described in terms of its erection requirements.  
 Range line, level, plumb, specified tolerances, manufacturer’s specifications, use of release agents.
- 1.3 Falsework and formwork are described in terms of striking and maintenance.
- 1.4 New Zealand Standards are described as they relate to formwork.  
 Range NZS 3109:1997, NZS 3124:1987.

**Outcome 2**

Describe the erection of falsework and formwork for high walls, columns, beams, and slabs.

**Performance criteria**

- 2.1 Methods used to erect falsework and formwork to line, level, plumb and specified tolerances are described in accordance with manufacturer’s specifications and instructions.
- 2.2 Methods used to strut, brace and tie falsework and formwork are explained in accordance with design requirements and manufacturer’s specifications.
- 2.3 Methods used to strike formwork and falsework without damage to any component are described in accordance with design requirements or manufacturer’s specifications.
- 2.4 Procedures for maintaining health and safety requirements when erecting false work and formwork are described.  
 Range work methods, plant, equipment, identification of hazards and controls.

<b>Replacement information</b>	<p>This unit standard and unit standard 13065 replaced unit standard 630.</p> <p>This unit standard was replaced by unit standard 32458.</p>
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**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	31 December 2023

**Consent and Moderation Requirements (CMR) reference**

0048

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