

Title	Demonstrate knowledge of commercial falsework and formwork		
Level	3	Credits	3

Purpose	<p>People credited with this standard can:</p> <ul style="list-style-type: none"> • demonstrate knowledge of purpose and specifications for commercial falsework and formwork; • describe how to erect and strike falsework and formwork for commercial construction; and • demonstrate knowledge of health and safety for erecting and striking falsework and formwork.
----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Classification	Construction Trades > Carpentry
-----------------------	---------------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

1 Range

Commercial falsework and formwork includes – high wall, column, suspended beam, slab.

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 3124:1987 *Specification for concrete construction for minor works*;
- 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*. Available from Standards NZ (<http://www.standards.co.nz>).

NZS 3124:1987 *Specification for concrete construction for minor works*. Available from Standards NZ (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of purpose and specifications for commercial falsework and formwork.

Performance criteria

1.1 Describe the purposes of falsework and formwork for commercial construction.

Range falsework – timber propping, steel propping;
formwork – fixed shuttering, slip forms, jump forms, permanent formwork.

1.2 Identify and describe provisions in New Zealand Standards that relate to formwork.

Range NZS 3109:1997, NZS 3124:1987.

Outcome 2

Describe how to erect and strike falsework and formwork for commercial construction.

Performance criteria

2.1 Describe how to erect falsework and formwork.

Range strut, brace, tie;
line, level, plumb, specified tolerances, manufacturer specifications, release agents.

2.2 Describe how to maintain falsework and formwork.

2.3 Describe how to strike and store formwork and falsework without damaging components.

Outcome 3

Demonstrate knowledge of health and safety for erecting and striking falsework and formwork.

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

3.1 Identify and describe health and safety requirements for erecting and striking falsework and formwork.

Replacement information	This unit standard replaced unit standard 13029.
--------------------------------	--------------------------------------------------

Planned review date	31 December 2026
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	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 if you wish to suggest changes to the content of this unit standard.