

Title	Demonstrate knowledge of installing mechanical fixings and building hardware		
Level	3	Credits	2

Purpose	People credited with this standard can: <ul style="list-style-type: none"> • demonstrate knowledge of mechanical fixings for construction work; • describe how to select and install building hardware; and • demonstrate knowledge of health and safety for installing mechanical fixings and building hardware.
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Classification	Construction Trades > Carpentry
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Available grade	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 3604:2011 *Timber Framed Buildings*;
- 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 Reference

NZS 3604:2011 *Timber Framed Buildings*. Available from Standards NZ (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of mechanical fixings for construction work.

Performance criteria

1.1 Identify mechanical fixings and describe their use in construction.

Range nails, screws, bolts, nail plates, nail on plates, joint brackets, hangers, framing anchors, metal fittings, expansion bolts.

1.2 Describe the effects the environment, pollution, and incompatible materials can have on mechanical fixings.

1.3 Calculate quantities of mechanical fixings for a construction job.

Outcome 2

Describe how to select and install building hardware.

Range door hinge, latch, lock, window hinge, stay, catch, bathroom hardware, security door and window hardware, door stops, disability hardware.

Performance criteria

2.1 Identify items of interior and exterior building hardware and described their use for construction.

2.2 Calculate quantities of building hardware for a construction job.

2.3 Describe how to select and install building hardware.

Outcome 3

Demonstrate knowledge of health and safety for installing mechanical fixings and building hardware.

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 installing mechanical fixings and building hardware.

Replacement information	This unit standard and unit standard 13059 replaced unit standard 624.
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Planned review date	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
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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 at national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.