

Title	Construct timber frames for alternative roof designs under supervision		
Level	3	Credits	4

Purpose	<p>People credited with this standard can:</p> <ul style="list-style-type: none"> • determine material requirements for alternative roof designs; • construct timber frames for alternative roof designs under supervision; and • clean and store tools, plant and equipment used to construct a timber frame for an alternative roof design.
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Classification	Construction Trades > Carpentry
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Available grade	Achieved
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Guidance Information

1 Scope of practice

Working *under supervision* means the ability to work to construction workplace standards under the supervision of a commercially competent practitioner whose role is to ensure the completed construction meets industry and regulatory requirements. This standard does not recognise commercial competence.

2 Assessment

This unit standard must be assessed under the supervision of a commercially competent practitioner in construction workplace conditions that reflect:

- current health, safety, industry, and workplace requirements; and
- industry requirements for commercially acceptable timeframes.

Evidence generated for assessment against this standard must be verified by a person who has current expertise in the building and construction trades and has had the opportunity to regularly observe the candidate in the workplace.

3 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.

4 Reference

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

Outcomes and performance criteria

Outcome 1

Determine material requirements for alternative roof designs.

Range two of – flat, mono-pitch, skillion, dormer, splayed end.

Performance criteria

- 1.1 Identify the materials required for roof framing members and roof braces.
- 1.2 Check the quality and quantity of a materials delivery and address any non-conformity.

Outcome 2

Construct timber frames for alternative roof designs under supervision.

Range two of – flat, single plane, skillion, dormer, splayed end.

Performance criteria

- 2.1 Set out the roof member positions according to the site documentation.
- 2.2 Cut the roof framing members to specified length and bevel.

Range six of – common and jack rafters, ridge beam, outrigger, flying rafter, hip and valley rafter, valley board, ridge, ceiling joist, purlin.
- 2.3 Erect and fix the roof framing members for an alternative roof design.
- 2.4 Set out, cut, and fix support and bracing systems for an alternative roof design.

Outcome 3

Clean and store tools, plant, and equipment used to construct a timber frame for an alternative roof design.

Range 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 Clean workplace, tools, and plant used to construct a timber frame for an alternative roof design.
- 3.2 Store tools and plant used to construct a timber frame for an alternative roof design.

Replacement information	This unit standard replaced unit standard 13051.
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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	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.