

## Roof frame      Construct and install timber roof framing

### L4

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	
<b>Whāinga   Purpose</b>	<p>This skill standard recognises the skills required to construct and install timber roof framing.</p> <p>It contributes to the New Zealand Certificate in Carpentry (Level 4) with optional strand in Metal Roof Cladding Installation [Ref:2738].</p>

#### Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
1. Erect and assemble timber prefabricated and individual component roof framing.	a. Timber roof framing is erected and assembled, ensuring alignment with plans and specifications, and industry standards.
2. Install bracing and support members for timber roof framing.	a. Timber roof framing is permanently tied together, braced, and connected to wall framing, ensuring compliance with plans and specifications.
	b. Roofing support members are fixed to timber roof framing according to job specifications and industry standards.
3. Install finishing components for timber roof framing.	a. Timber roof finishing components are constructed and installed in accordance with plans, specifications, and industry standards.

#### Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

To achieve this standard the candidate must be capable of constructing and installing timber roof framing for both pre-fabricated frames and the on-site fabrication of individual components, in accordance with industry standards.

Industry standards must reflect industry best practice, workplace procedures, and be within acceptable tolerances as defined in New Zealand codes, standards and regulations.

Plans and specifications can include working drawings, plan specifications, manufacturer specifications, installation instructions and, work, demolition and project plans.

This standard may be assessed in the workplace or a simulated work environment.

Evidence for this standard must be:

- to current and relevant Legislation, Standards, and Codes (including safety),
- in an environmentally sustainable manner,
- within an acceptable timeframe,
- in different and unfamiliar contexts,

- with acceptable behaviours.

## Ngā momo whiwhinga | Grades available

Achieved

## Ihirangi waitohu | Indicative content

Preparation and planning:

- Interpretation of working drawings and specifications for roof framing.
- Site preparation: verifying roof layout and dimensions against plans.
- Calculating and marking out roof pitches, spans, and angles.

Constructing and installing roof framing:

- Ties and braces
- Techniques for installing roof space bracing, sarking, and steel strap bracing.
- Installation of dragon ties, diagonal timber bracing, and collar ties for stability.
- Ensuring all ties and braces reflect engineering and code requirements.
- Safety and access equipment
- Setup and use of scaffolding, elevated work platforms, and edge protection systems.
- Safe manual handling techniques for heavy timber and large components.
- Finishing components
- Installation of soffits, verges, fascia boards, bargeboards, eaves, and overhangs.
- Measuring, cutting, and fitting box and internal gutters, parapets, and waterheads.
- Ensuring finishing components meet weatherproofing and aesthetic requirements.
- Roof Penetrations
- Preparing framing for chimneys, flues, and skylights.
- Installing penetrations to align with roofing materials and ensure waterproofing integrity.

Compliance and quality assurance:

- Ensuring all framing and installations meet NZ Building Code standards and engineering specifications.
- Inspection and adjustment of installed components for alignment, stability, and safety.
- Documentation of completed work and compliance sign-offs.
- Identifying and rectifying issues during roof framing installation
- Handling unexpected site conditions or plan deviations.

## Rauemi | Resources

Programme Guidance information available from [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz).

## Pārongo Whakaū Kounga | Quality assurance information

<b>Ngā rōpū whakatau-paerewa  </b> Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
<b>Whakaritenga Rārangi Paetae Aromatawai  </b> DASS classification	Planning and Construction > Construction Trades > Carpentry

<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga   CMR</b>	0048
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<b>Hātepe   Process</b>	<b>Putanga   Version</b>	<b>Rā whakaputa   Review Date</b>	<b>Rā whakamutunga mō te aromatawai   Last date for assessment</b>
<b>Rēhitatanga   Registration</b>	1	[dd mm yyyy]	N/A
<b>Kōrero whakakapinga   Replacement information</b>	This skill standard replaces unit standards:		
<b>Rā arotake   Planned review date</b>	31 December 2029		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihangaarau.nz](mailto:qualifications@waihangaarau.nz) to suggest changes to the content of this skill standard.