

40794**Construct and install timber roof framing**

Kaupae Level	4
Whiwhinga Credit	11
Whāinga Purpose	<p>This skill standard is for people intending to complete qualifications and credentials in the carpentry trades.</p> <p>People with this skill standard have the skills to construct and install prefabricated and individual component timber roof framing.</p> <p>This skill standard may contribute to New Zealand qualifications designed for construction trades.</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 roof framing.	a. Timber roof framing is erected and assembled in accordance with plans and specifications.
2. Install bracing and support members for timber roof framing.	a. Timber roof framing is permanently tied together, braced, and connected to wall framing in accordance with plans and specifications. b. Roofing support members are fixed to timber roof framing according to job specifications.
3. Install finishing components for timber roof framing.	a. Timber roof finishing components are installed in accordance with plans and specifications.

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 prefabricated 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 must be assessed in the workplace.

Evidence for this standard must be demonstrated:

- 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.
- Framing for gables, double valleys that meet at the apex, hips, and singular valleys.
- 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.

- Framing of soffits, verges, fascia boards, bargeboards, eaves, and overhangs.
- Ensuring finishing components meet weatherproofing and aesthetic requirements.

Roof penetrations.

- Preparing framing for chimneys, flues, and skylights.
- Framing for 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 signoffs.
- 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.

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Planning and Construction > Construction Trades > Carpentry
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0120

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	28 August 2025	N/A
Kōrero whakakapinga Replacement information	N/A		
Rā arotake Planned review date	31 December 2030		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihangaararau.nz to suggest changes to the content of this skill standard.