

Ceiling frame Fix and form ceiling frame systems L4

Kaupae Level	4
Whiwhinga Credit	
Whāinga Purpose	<p>This skill standard recognises the skills required to fix and form ceiling frame systems.</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. Fix and form ceiling frame systems.	a. Ceiling framing is fixed from individual components or proprietary systems according to plans and specifications.
	b. Penetrations in ceiling framing are formed and constructed according to 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 fixing and forming ceiling frame systems with penetrations and internal and external corners, to 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, work, demolition and project plans.

This standard must be assessed in the workplace.

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

Advanced ceiling framing types

- Multiplane, raking, bulkhead, stepped, and floating.
- Structural considerations for load-bearing and non-load-bearing ceiling systems.
- Impact of architectural design on ceiling framing requirements.

Advanced ceiling framing types

- Structural roles of ceiling joists, bottom chords, and battens.
- Integration of suspended ceiling systems, including proprietary components.
- Installation and use of perimeter angle/channel for complex designs.

Advanced construction and assembly methods

- Techniques for aligning and fixing battens in complex designs.
- Installation of proprietary systems.
- Managing tolerances and deviations using packers, adjustable clips, or other solutions.

Penetrations and structural modifications

- Framing for penetrations: skylights, chimneys, flues, and attic access.
- Reinforcing around penetrations to maintain structural integrity and performance.

Fixing and adjustments

- Accurate set-out for ceiling configurations.
- Precise fixing methods for perimeter angle/channel and battens to maintain level and alignment.
- Advanced adjustment techniques for deviations, ensuring architectural and structural accuracy.

Integration with other systems

- Coordinating with services and systems during framing.
- Access panels and service penetrations.
- Acoustic and thermal insulation within ceiling systems.

Roof penetrations and advanced techniques

- Designing framing solutions around large or multiple penetrations.
- Compliance with fire and sound transmission standards around penetrations.
- Techniques for sealing and finishing around roof penetrations.

Compliance and quality assurance

- Building codes and legislative requirements for ceiling framing systems.
- Inspecting and verifying framing quality, alignment, and structural soundness.
- Documenting as-built conditions and modifications.

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	0048
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Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	[dd mm yyyy]	N/A
Kōrero whakakapinga Replacement information	This skill standard replaces unit standards:		
Rā arotake Planned review date	31 December 2029		

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