

<b>Title</b>	<b>Demonstrate understanding of columns, posts, beams and portals</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>7</b>

<b>Purpose</b>	<p>This unit standard aligns with the <i>New Zealand Certificate in Carpentry – Specifications</i>, developed on behalf of the construction industry to specify the skills and knowledge required to achieve the New Zealand Certificate in Carpentry (Level 4) [Ref: 2738].</p> <p>This unit standard is intended for those working in the construction industry.</p> <p>People credited with this unit standard are able to demonstrate understanding of columns, posts, beams and portals to the level required of a commercially competent carpenter.</p>
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<b>Classification</b>	Construction Trades > Carpentry
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<b>Available grade</b>	Achieved
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### Guidance Information

This unit standard is one of a family of standards that align with the *New Zealand Certificate in Carpentry – Specifications* and should be read, interpreted and assessed in the context of those *Specifications* and the New Zealand Certificate in Carpentry (Level 4) [Ref: 2738].

The overarching level of performance for the family of unit standards is commercial competence.

Commercial competence requires a candidate to be capable of consistently performing the requirements of the skill specification:

- to current regulatory, industry and commercial standards;
- within a commercially viable timeframe;
- in commercial environments;
- without supervision;
- in different and unfamiliar contexts.

The sufficiency of evidence required to demonstrate commercial competence against this unit standard is determined within the context of the family of unit standards aligned to the *Specifications*.

The assessor must be confident that the candidate is capable of applying the skills and knowledge included in this skill specification to the level, scope and complexity required to support the achievement of related skills included in the *Specifications*.

Commercial competence can only be demonstrated, and must be assessed, in the workplace.

The assessment of commercial competence must be corroborated and confirmed by a person who has current expertise in the carpentry trade and has had the opportunity to regularly observe the candidate in the workplace.

#### Reference

*New Zealand Certificate in Carpentry – Specifications*, BCITO, April 2018, available from [www.waihangaararau.nz](http://www.waihangaararau.nz).

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## Skill specification and performance level guidance

### Skill specification

Demonstrate understanding of columns, posts, beams and portals.

**Know** The different types, purposes, materials and construction methods used to create in-situ concrete columns and beams.

How to construct formwork and prepare for the placement of concrete.

How in-situ concrete beams are propped until they become self-supporting.

How to erect, position and support precast concrete columns and beams and tie into the rest of the structure.

How to install timber, steel, and composite, posts, beams and portal frames.

### Performance level guidance

Formwork includes stud and sheathing, shutters and proprietary systems.

The level of knowledge required is that of a trade professional rather than an expert with specialist concrete knowledge.

Reinforcing and concrete is covered in unit standard 30870, *Construct concrete foundations and slabs*.

<b>Planned review date</b>	31 December 2023
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	1 March 2018	N/A
Rollover and Revision	2	15 December 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0048
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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### Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council [qualifications@waihanga.nz](mailto:qualifications@waihanga.nz) if you wish to suggest changes to the content of this unit standard.