

Piles L3 Carry out pile or pole construction tasks under supervision

Kaupae Level	3
Whiwhinga Credit	
Whāinga Purpose	This skill standard recognises the skills required to carry out pile or pole construction tasks under supervision. This skill standard contributes to qualifications designed for carpentry.

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Identify and describe the components and construction requirements of piles or poles used in floor and deck construction.	a. The different types and functions of piles and poles are identified and described.
	b. Requirements for installing piles and poles are identified from plans and specifications.
2. Carry out construction tasks for piles or poles used in floor or deck construction under supervision.	a. Set out and pre-installation requirements for piles or poles are carried out and align with industry standards and practices.
	b. Piles or poles are set out and placed under supervision, ensuring alignment with workplace practices 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 carrying out pile or pole construction tasks for floor or deck construction under supervision to industry standards.

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

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

Under supervision refers to direction of work tasks being given by a qualified tradesperson.

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,
- with acceptable behaviours.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

Types of piles

- Ordinary, braced, anchor, cantilever, driven, screw piles.

Load types

- Vertical loads, lateral loads, seismic loads.

Properties of piles and poles

- Profile shapes and sizes, common lengths, materials, treatments, diameters, small-end diameters.

Setting out piles and poles

- Profiles and string lines.
- Overall, individual, and running measurements.
- Checking for square and marking out for excavations.
- Preparation for square/round holes and marking for cut timber piles/poles.

Tools and equipment

- Tools for excavation, cutting, and placing piles safely.

Calculations

- Calculating volumes and quantities.

Regulations and Standards

- When re-piling requires consent and when it doesn't.
- Understanding SED requirements for poles outside NZS3604.
- Maximum heights of different pile types as per NZS3604.

Safety considerations

- Site safety with excavating machinery and securing the site.

Ground conditions

- Identify "good ground" and its implications for installation.

Treatment requirements

- Treatment requirements for piles and poles based on environmental exposure and load conditions.

Rauemi | Resources

Programme Guidance information available from qualifications@waihangaarau.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

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@waihangaararau.nz to suggest changes to the content of this skill standard.