

**40809****Set out and prepare concrete floors**

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	7
<b>Whāinga   Purpose</b>	<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 set out and prepare concrete floors.</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**

<b>Hua o te ako   Learning outcomes</b>	<b>Paearu aromatawai   Assessment criteria</b>
1. Calculate material quantities required for concrete floors.	a. Quantities of materials required for concrete floors, including concrete, reinforcement, formwork, and other necessary components, are accurately calculated.
2. Set out and prepare concrete floors.	a. Set out for excavation and formwork construction is carried out in accordance with plans and specifications. b. Excavation for concrete foundations and slabs is overseen according to instructions and job specifications, ensuring alignment with the plans and specifications. c. Formwork is constructed using appropriate tools, techniques, and materials in accordance with plans and specifications. d. Proprietary systems are identified and installed, ensuring proper installation in line with plans and specifications. e. Reinforcing requirements are identified in accordance with plans and specifications. f. Cutting, bending, and tying of reinforcing is carried out to meet plan and specification requirements.

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

## Assessment specifications:

To achieve this standard the candidate must be capable of setting out and preparing concrete floors for a single residential building to industry standards.

Proprietary systems may include DPC, polystyrene, or pods.

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 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

## Materials for foundations and slabs

- Hardfill/basecourse, damp-proofing, formwork (release agents), reinforcing steel (bars, mesh, starter bars), waffle slab pods.

## Construction methods

- Ring foundations, pod/waffle systems, slab on ground, suspended concrete floors (e.g., rib and timber fill, beam and slab, flat slab, hollow core).

## Formwork construction

- Methods for constructing and assembling formwork systems for concrete floors.

## Installation of damp-proof membranes

- Processes for taping, lapping, and installing membranes to industry standards.

## Reinforcing preparation

- Cutting, bending, and tying reinforcing steel.
- Using epoxy glues for fixing reinforcing to existing concrete.

## Planning and calculations

- Work schedules and timelines.
- Calculating quantities for slab or pile foundations.

## Curing and prevention of cracking

- Ponding, covering, and treatments.

## Rauemi | Resources

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

## Pārongo Whakaū Kouna | 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  </b> CMR	0120

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

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