

## 41161 Carry out placing and finishing tasks of standard complexity for concrete structures

<b>Kaupae   Level</b>	3
<b>Whiwhinga   Credit</b>	10
<b>Whāinga   Purpose</b>	<p>This skill standard is intended for people working in or entering the construction trades.</p> <p>People credited with this skill standard have the skills to carry out placing and finishing tasks of standard complexity for concrete structures.</p> <p>This skill standard aligns with the New Zealand Certificate in Concrete Construction Skills (Level 3) [Ref: 4189] and may also contribute to other construction and infrastructure qualifications.</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. Complete preparatory tasks in readiness for concrete placement.	a. Formwork or moulds, reinforcement, and cast-ins are checked for readiness in line with plans and specifications and industry standards.
	b. Lines, levels, and dimensions of prepared area are confirmed against plans and specifications.
2. Use routine methods to place and compact concrete.	a. Concrete is placed to the levels and alignment specified in plans and specifications.
	b. Concrete is compacted using appropriate methods to achieve density specified in plans and specifications.
	c. Movement of concrete is carried out safely and without segregation during compaction.
3. Use routine methods to finish concrete surfaces.	a. Surfaces are finished in line with specified finish type and industry standards.
	b. Finishes around penetrations, edges and joints are completed as specified and in line with industry standards.
	c. Surface quality is checked to confirm alignment with industry standards, and any issues, if present, are identified.

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
4. Complete curing tasks for concrete structures.	a. Curing methods are applied to prevent moisture loss and promote strength gain.
	b. Protection measures are applied to maintain surface quality and prevent damage.

### **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 placing and finishing tasks of standard complexity for concrete structures to industry standards under limited supervision.

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.

Evidence for this standard must be demonstrated:

- to current and relevant Legislation, Standards, and Codes (including safety),
- in an environmentally sustainable manner,
- with acceptable behaviours.

#### ***Definitions:***

***Acceptable behaviours*** refer to professional behaviours expected in a construction environment. This includes working safely with others, communicating effectively, following workplace procedures, respecting people, tools, equipment, and materials, and responding appropriately to hazards and changing work conditions.

***Concrete structures*** refer to a range of building and civil infrastructure works, including slabs, walls, beams, columns, foundations, footpaths, retaining structures and other concrete elements.

***Standard complexity*** refers to routine concrete placing and finishing tasks for straightforward concrete structures, for example, slabs, floors, pavements, panels, walls or precast elements, completed using familiar methods and equipment. Candidates are not expected to carry out remedial work but must be able to identify and report any surface defects.

***Under limited supervision*** refers to candidates carrying out the requirements of this skill standard with basic guidance and indirect supervision from a suitably skilled tradesperson. They are expected to source some information independently from plans, specifications, or relevant New Zealand Standards and apply these to routine or familiar projects.

### **Ngā momo whiwhinga | Grades available**

Achieved.

**Ihirangi waitohu | Indicative content**

## Preparation and checks

- Concrete supply requirements.
- Accuracy and stability of formwork or moulds.
- Reinforcement and cast-in items.
- Lines, levels and dimensions.
- Concrete covers and stability.
- Pre-pour testing requirements (e.g., slump tests, temperature, sampling procedures).

## Placing and compacting

- Moving and placing fresh concrete.
- Specified levels and alignment.
- Compaction (e.g., vibration, rodding, tamping).
- Preventing segregation.

## Finishing

- Methods (e.g., levelling, screeding, floating, trowelling, broom/textured finishes).
- Finishing around penetrations, edges and joints (where specified).
- Testing – slump tests, compressive strength test.

## Curing

- Methods (e.g., water curing, curing compounds, preventing moisture loss, accelerated curing).
- Protection measures.

**Rauemi | Resources**

Programme Guidance information available from [info@cstisb.nz](mailto:info@cstisb.nz).

**Pārongo Whakaū Kounga | Quality assurance information**

<b>Ngā rōpū whakatau-paerewa  </b> Standard Setting Body	Construction and Specialist Trades Industry Skills Board
<b>Whakaritenga Rārangi Paetae Aromatawai  </b> DASS classification	Planning and Construction > Concrete > Concrete Core Skills
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga  </b> CMR	0120

<b>Hātepe   Process</b>	<b>Putanga   Version</b>	<b>Rā whakaputa   Review Date</b>	<b>Rā whakamutunga mō te aromatawai   Last date for assessment</b>
<b>Rēhitatanga   Registration</b>	1	26 February 2026	N/A
<b>Kōrero whakakapinga   Replacement information</b>	This skill standard replaced unit standards 26048, 32672, 32673 and 32684.		
<b>Rā arotake   Planned review date</b>	31 December 2030		

Please contact Construction and Specialist Trades Industry Skills Board at [info@cstisb.nz](mailto:info@cstisb.nz) to suggest changes to the content of this skill standard.