

## 41148 Complete placing and finishing of moderate complexity for concrete structures

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	10
<b>Whāinga   Purpose</b>	<p>This skill standard is for people working in or entering the construction trades.</p> <p>People credited with this skill standard have the skills to complete placing and finishing of moderate complexity for concrete structures.</p> <p>This skill standard aligns with the New Zealand Certificate in Concrete Construction (Building and Infrastructure) (Level 4) [Ref: 4188] 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. Confirm readiness for concrete placement for structures.	a. Formwork, reinforcement, and cast-in items are confirmed ready for placement to plans and specifications.
	b. Equipment, crew, and environmental controls are confirmed as suitable for the site conditions, work to be completed, and to meet industry standards.
	c. Supplied concrete is confirmed to meet the ordered slump and specified strength requirements in line with plans and specifications.
	d. Pour sequence, pour area, and access are confirmed in line with plans and specifications, and site conditions.

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
2. Place, finish, and cure concrete for structures.	a. Concrete is placed and compacted using equipment and methods suited to the structure and pour requirements.
	b. Surface finishes are completed to the required texture or appearance.
	c. Curing is applied to achieve the required concrete strength and durability in accordance with plans, specifications and industry standards.
	d. Concrete surface quality is checked, and any minor issues are remediated to industry standards.

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

#### Assessment specifications:

To achieve this standard, the candidate must be able to complete placing and finishing of moderate complexity for concrete structures 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 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,
- within an acceptable timeframe,
- 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.

*Minor issues* refer to surface imperfections that do not affect the structural integrity of the concrete. These may include honeycombing, blowholes, laitance or uneven texture that can be corrected using approved patching or finishing methods in accordance with industry standards.

*Moderate complexity* refers to placing and finishing work that involves a range of concrete structures, site conditions, and finishing requirements. Work may include pours with varying sizes or shapes, stepped or sloped surfaces, formed or vertical elements or specialised finishes where there are factors such as access limitations, changing environmental conditions, coordination with multiple trades or minor remedial work on surface defects are required.

**Ngā momo whiwhinga | Grades available**

Achieved.

**Ihirangi waitohu | Indicative content**

## Planning and site preparation

- Plans and specifications.
- Formwork, reinforcement, and cast-in items.
- Access, placement sequence, and delivery zones.
- Equipment and workforce readiness.
- Environmental controls and weather considerations.

## Concrete supply and verification

- Concrete mix design and specification compliance.
- Slump and delivery checks.
- Communication with supplier and site team.

## Placement and compaction

- Placement methods (barrows, chutes, pumps, buckets).
- Vibration and compaction techniques.
- Flow and movement control.
- Safety around pumps and placing equipment.

## Finishing and surface quality

- Finishing tools and equipment (hand or mechanical).
- Flatness, texture and appearance requirements.
- Edge, joint and penetration finishing.
- Surface quality inspection and reporting.

## Curing and protection

- Curing systems (membrane, water, accelerated).
- Protection from wind, heat, and contamination.
- Curing duration and verification.

Industry standards.

**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   Standard Setting Body</b>	Construction and Specialist Trades Industry Skills Board
<b>Whakaritenga Rārangi Paetae Aromatawai   DASS classification</b>	Planning and Construction > Concrete > Concrete Construction
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga   CMR</b>	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>	N/A		
<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.