

## 41151 Carry out pre-production processes of standard complexity for precast concrete manufacture

<b>Kaupae   Level</b>	3
<b>Whiwhinga   Credit</b>	5
<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 pre-production processes of standard complexity for precast concrete manufacture.</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. Carry out pre-production processes of standard complexity for precast concrete manufacture.	a. Casting surfaces are prepared and checked for stability in line with plans and specifications.
	b. Alterations to casting surfaces are completed as required to meet the requirements of plans and specification.
	c. Moulds are assembled, modified, and prepared to meet specified tolerances.
	d. Moulds are reviewed against plans and specifications to confirm compliance.
	e. Reinforcing and cast-in elements are positioned in line with plans, specifications, and industry standards.
	f. Reinforcing and cast-in elements are secured to maintain cover and stability during placing.
	g. Prefabricated cages or elements are integrated into moulds as required for precast manufacture.

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

#### Assessment specifications:

To achieve this standard the candidate must carry out pre-production processes of standard complexity for precast concrete manufacture 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, and
- 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.

*Standard complexity* refers to routine pre-production work carried out under set procedures and supervision. It includes preparing casting surfaces, assembling moulds and placing reinforcement and cast-in items for straightforward precast elements such as slabs, panels, beams, and columns, using familiar equipment and methods.

*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**

Plans and specifications

Casting surfaces

- Accuracy and stability requirements.
- Alterations (e.g. rebates, joints, block-outs).

Moulds for precast manufacture

- Components and assembly.
- Modification requirements.
- Tolerances.

Reinforcing and cast-in elements

- Purpose.
- Positioning and securing.
- Concrete cover and stability.
- Prefabricated cages or inserts.

**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 > Precast Concrete
<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>	This skill standard replaced unit standard 32683.		
<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.