

Pre-prod**Carry out pre-production processes of standard complexity for precast concrete manufacture**

Kaupae Level	3
Whiwhinga Credit	5
Whāinga Purpose	This skill standard is intended for people working in or entering the construction trades. People credited with this skill standard have the skills to carry out pre-production processes of standard complexity for precast concrete manufacture under limited supervision. This skill standard aligns with the New Zealand Certificate in Concrete Construction Skills (Level 3) [Ref: XXXX] and may also contribute to other construction and infrastructure qualifications.

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Prepare casting surfaces 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.
2. Assemble and prepare moulds for precast concrete manufacture.	a. Moulds are assembled, modified, and prepared to meet specified tolerances.
	b. Moulds are reviewed against plans and specifications to confirm compliance.
3. Position and secure reinforcing and cast-in elements for precast concrete manufacture.	a. Reinforcing and cast-in elements are positioned in line with plans, specifications, and industry standards.
	b. Reinforcing and cast-in elements are secured to maintain cover and stability during placing.
	c. 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 under limited supervision 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.

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.

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.

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.

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 qualifications@waihangaararau.nz.

Pārongo Whakaū Kouna | 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	Concrete > Concrete Construction
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0120

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	dd mm 2025	N/A
Kōrero whakakapinga Replacement information	This skill standard replaced unit standards 32683.		
Rā arotake Planned review date	[dd mm yyyy]		

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.