

Manufacture Manufacture concrete products of standard complexity

Kaupae Level	3
Whiwhinga Credit	10
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 manufacture concrete products of standard complexity 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. Assemble and prepare moulds for concrete product manufacture.	a. Moulds and mould components are inspected and serviced in line with manufacturer's instructions and industry standards.
	b. Moulds are assembled and prepared to meet specified tolerances in line with plans and specifications.
2. Complete pre-production and production processes for concrete product manufacture tasks.	a. Any reinforcements and cast-ins are positioned and checked in accordance with plans and specifications and industry standards.
	b. Production requirements are identified to ensure products manufactured meet the plans and specifications.
	c. Production processes are completed to ensure concrete product is in line with plans and specifications and industry standards.
	d. Machinery and equipment are operated to meet manufacturer's instructions, industry standards, and project requirements.
3. Apply quality checking procedures to concrete product manufacture.	a. Quality checks are carried out and recorded at scheduled stages in line with plans and specifications and industry standards.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
	b. Products that do not meet requirements are identified and reported in line with industry standards.

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

Assessment specifications:

To achieve this standard the candidate must manufacture concrete products of standard complexity 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 concrete product manufacturing tasks carried out for straightforward product types, for example, blocks, pipes, pavers, or panels, using familiar tools, 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

Moulds for concrete product manufacture

- Types and components
- Purposes
- Serving requirements
- Acceptable tolerances

Pre-production processes

- Assembling and preparing moulds
- Preparing reinforcement or cast-ins
- Checking concrete supply requirements
- Health, safety and environmental requirements

Production processes

- Operating machinery and equipment
- Placing and compacting concrete in moulds

- Monitoring product dimensions and tolerances
- Handling fresh and hardened products safely

Quality checking

- Quality checking requirements and scheduling
- Record-keeping requirements
- Identifying faults and taking appropriate actions

Rauemi | Resources

Programme Guidance information available from qualifications@waihangaararau.nz.

Pārongo Whakaū Kounga | 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 32680 and 32681.		
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.