

41150 Manufacture concrete products by completing tasks of standard complexity

Kaupae Level	3
Whiwhinga Credit	10
Whāinga Purpose	<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 manufacture concrete products by completing tasks of standard complexity.</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

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. Manufacture concrete products by completing pre-production and production 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.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
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.
	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 by completing tasks of standard complexity 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 manufacturing tasks for straightforward concrete products (e.g., blocks, pipes, pavers, panels) using familiar tools 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

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 info@cstisb.nz.

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Construction and Specialist Trades Industry Skills Board
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Planning and Construction > Concrete > Concrete Product Manufacture
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	26 February 2026	N/A
Kōrero whakakapinga Replacement information	This skill standard replaced unit standards 32680 and 32681.		
Rā arotake Planned review date	31 December 2030		

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