

41136**Construct and dismantle formwork of standard complexity for concrete structures**

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 construct and dismantle formwork for concrete structures.</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. Identify materials, components, and agents used in formwork systems.	a. Formwork materials are identified in terms of type and purpose.
	b. Cast-in components are identified and explained in terms of function as part of the formwork system.
	c. Release and cleaning agents are identified in terms of purpose and application.
2. Construct formwork for concrete structures.	a. Formwork systems are assembled using appropriate methods to meet the plans and specifications.
	b. Pre-made or fabricated components are checked and positioned to meet the formwork design.
	c. Formwork is constructed to meet the dimensions, alignment and strength required to contain the concrete without failure.
3. Dismantle formwork for concrete structures.	a. Formwork systems are dismantled safely and without damaging the finished concrete surface.
	b. Materials and components are recovered, cleaned and prepared for reuse or disposal 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 be capable of carrying out construction tasks for the completion of formwork of standard complexity for concrete structures 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
- 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.

Standard complexity refers to formwork that use familiar materials, tools and techniques for straightforward concrete structures such as slabs, beams, columns, and walls. Work is completed within clearly defined parameters and tolerances using standard systems.

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.
- Formwork systems (modular, table, in-situ/custom, in-ground).
- Formwork materials (e.g. timber, plywood, steel, aluminium, plastic/composite panels).
- Fabrication and assembly.
- Pre-made and fabricated components (panels, shutters, bracing, walers, bearers, supports)
- Cast-in components (reinforcing chairs, brackets, ties, ducts, conduits, penetrations, anchor bolts, pipes).
- Formwork detailing for shape, dimensions and alignment.
- Concrete joints (free movement and tied).
- Release and cleaning agents.

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 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	26 February 2026	N/A
Kōrero whakakapinga Replacement information	This skill standard replaced unit standards 32661 and 32663.		
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.