

40003 Plan a concrete pumping operation

Kaupae Level	4
Whiwhinga Credit	5
Whāinga Purpose	<p>This skill standard recognises the skills required to plan a concrete pumping operation.</p> <p>This skill standard aligns with the New Zealand Certificate in Concrete (Specialist) [Ref: 4186] (Level 4) with strands in Concrete Pump Operation (Boom Delivery System) or Concrete Pump Operation (Line Delivery System) strands.</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 and collate job information for a concrete pumping operation.	a. Job location and contacts, concrete mix and supplier, machinery, and operator requirements are confirmed and recorded according to workplace requirements.
	b. Quality control and safety considerations are checked according to workplace requirements.
2. Assess on-site conditions to plan safe operating requirements for a concrete pumping.	a. Assessment identifies safe access, location for pump machinery and equipment, ground conditions and stabilisation requirements.
	b. Job sequencing for safety and efficient concrete delivery is recorded.
	c. Potential significant hazards and risks are identified, and control methods determined and recorded.
	d. Concrete pumping plan is approved according to workplace procedures.

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

Assessment specifications:

The concrete pumping plan must meet workplace requirements and be developed to the standard required of a commercially competent concrete pump operator.

Concrete pump operation does not include driver licensing requirements.

A concrete pumping operation involves the use of pump machinery to transfer the concrete mix from a supplier truck to the placement location via a delivery line. The pump machinery may be truck or trailer mounted.

Workplace procedures refers to the documented procedures specific to a workplace that set out the standards and required practices of that workplace.

A commercially competent concrete pump operator will be capable of consistently demonstrating the technical skills and knowledge expected by the concrete pumping industry; this includes meeting current regulatory and industry standards within commercially viable timeframes, in familiar and unfamiliar construction environments, without direct supervision.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

Job Information

- Plan requirements - contacts, location, concrete mix, concrete supplier.
- On-site assessment.

Safety

- Operational safety zones around pump machinery.
- Task analysis, hazard and risk identification, risk management techniques.
- Implementation of risk management and planned use of safety equipment and personal protective equipment.
- Temporary traffic management rules, signage requirements and operator responsibilities.

Operational

- Machinery and equipment requirements.
- Wash out plan, surplus concrete, and environmental protection requirements.
- Pumping machinery component functions, operating capacity and manufacturer's operating instructions and guidelines.

Compliance and quality control

- Pump logbook responsibilities.
- Inspections and testing records including daily pre-use checks.
- Concrete pump Certificate of Compliance (CoC) requirements.
- Data plates and vehicle registration requirements.
- Pumping operation plan sign off responsibilities.

Rauemi | Resources

- Concrete Pumping Health and Safety Guidelines February 2013 Copyright © Concrete Pumping Association of New Zealand. Available from www.worksafe.govt.nz.
- Programme guidance 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	Planning and Construction > Concrete > Concrete Construction
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0048

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	29 February 2024	N/A
Rā arotake Planned review date	31 December 2028		

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.