

CP3 Maintain Maintain concrete pump machinery and equipment

Kaupae Level	4
Whiwhinga Credit	8
Whāinga Purpose	<p>This skill standard is for people who need to maintain concrete pump machinery and equipment.</p> <p>It is for learners with experience in concrete pump operation who want to work as a commercially competent concrete pump operator.</p> <p>This skill standard is intended to be used in the New Zealand Certificate in Concrete (Specialist) L4 Concrete Pump Operation (Boom Delivery System) or Concrete Pump Operation (Line Delivery System) strand.</p>

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Clear concrete delivery system after pumping operation	a. Residual concrete materials removed from pump pipeline and delivery system
	b. Safety of operator and workers maintained during pipeline clean out procedure
2. Clean out pump machinery	a. Safety mechanisms applied prior to clean out
	b. Machinery and equipment guidelines and instructions are followed for clean out
3. Prepare concrete pumping machinery and equipment for road travel	a. Machinery and equipment manufacturer's guidelines followed
	b. Loose components correctly stowed or restrained.
	c. All power controls set to off
	d. Visual inspection completed prior to movement
4. Complete preventative maintenance processes and checks for concrete pump machinery and equipment	a. Maintenance check completed and recorded according to workplace requirements

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

Assessment specifications:

You will safely undertake maintenance of concrete pumping machinery and equipment to the standard of a commercially competent Concrete Pump Operator.

Maintenance includes post pumping operation procedures and preventative maintenance practices.

Concrete pumping equipment and machinery checks include pump and truck, whip check, reducers, clamps, seals, clips, safety pins, hoses and pipeline.

Performance must reflect industry best practice.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

- Machinery and equipment compliance check requirements - pipe thickness testing, hose & reducer testing, visual fatigue checks of pump machinery and delivery system equipment
- Manufacturer's maintenance guidelines and instructions
- Post pumping operation clean out procedures, safety and environmental considerations.
- Visual inspection of concrete pump machinery and equipment prior to leaving site
- Daily checks: basic lubrication, check hydraulics for leakages, waterbox monitoring and preventative maintenance
- Compliance checking schedules.

Rauemi | Resources

- Concrete Pumping Health and Safety Guidelines February 2013 Copyright © Concrete Pumping Association of New Zealand.
- Programme guidance 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	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	[dd mm yyyy]	[dd mm yyyy]

Arotakenga Review	<type here>	[dd mm yyyy]	[dd mm yyyy]
Kōrero whakakapinga Replacement information	<type here>		
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.