

## CP3 Maintain    Maintain concrete pump machinery and equipment

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	8
<b>Whāinga   Purpose</b>	<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 delivery system after a concrete pumping operation	a. Residual concrete materials are removed from pump pipeline and delivery system
	b. Safety of operator and workers is maintained during pipeline clean out procedure
2. Clean out pump machinery	a. Safety procedures are followed for safe pump machinery clean out
	b. Machinery and equipment guidelines and instructions are followed
3. Prepare concrete pumping machinery and equipment for road travel	a. Machinery and equipment manufacturer's guidelines followed to prepare for road travel
	b. Loose components are correctly stowed or restrained.
	c. All power controls set to off
	d. Workplace procedures are followed to complete visual inspection prior to movement
4. Complete preventative maintenance processes and checks for concrete pump machinery and equipment	a. Workplace procedures are followed to complete and record maintenance checks.

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

## Assessment specifications:

The learner 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

- Safety practices during clean out and maintenance
- 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](mailto:qualifications@waihangaararau.nz)

**Pārongo Whakaū Kounga** | Quality assurance information

<b>Ngā rōpū whakatau-paerewa</b>   Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council.
<b>Whakaritenga Rārangi Paetae Aromatawai</b>   DASS classification	Planning and Construction > Concrete > Concrete Construction
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga</b>   CMR	0048

<b>Hātepe</b>   Process	<b>Putanga</b>   Version	<b>Rā whakaputa</b>   Review Date	<b>Rā whakamutunga mō te aromatawai</b>   Last date for assessment
<b>Rēhitatanga</b>   Registration	1	[dd mm yyyy]	[dd mm yyyy]

<b>Arotakenga   Review</b>	<type here>	[dd mm yyyy]	[dd mm yyyy]
<b>Kōrero whakakapinga   Replacement information</b>	<type here>		
<b>Rā arotake   Planned review date</b>	1 October 2028		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) to suggest changes to the content of this skill standard.

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