

41247**Operate and control an onsite drinking water supply system**

Kaupae Level	3
Whiwhinga Credit	10
Whāinga Purpose	This skill standard is for people who are working with onsite drinking water supply systems. People with this skill standard can operate and control an onsite drinking water supply system and its source water supply sufficiency. This skill standard may be used in qualifications and credentials for the water services industry.

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Operate an onsite drinking water supply system.	a. Outline drinking water treatment in terms of purpose, operating principles and relevant regulations
	b. Identify components of an onsite drinking water supply system.
	c. Operate drinking water treatment processes to meet operational and compliance requirements for safe drinking water supply.
2. Control an onsite drinking water supply system and its source water sufficiency.	a. Perform process tests and measures and undertake operational observations, to optimise treatment process for drinking water supply, and to meet operational and compliance requirements.
	b. Monitor water supply sufficiency and respond appropriately to emerging supply changes.
	c. Interpret monitoring results for treatment processes to identify trends, variations, and emerging process issues.
	d. Record monitoring results and operational adjustments, in accordance with operational requirements.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
3. Maintain plant and equipment for an onsite drinking water supply system.	a. Maintain plant and equipment to ensure optimal process functionality and supply sufficiency.
	b. Identify and respond to faults or failures in accordance with operational requirements.
	c. Record maintenance in accordance with operational requirements.

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

Assessment specifications:

Ākonga must demonstrate that they can safely, consistently, and competently operate and control an onsite drinking water supply system in accordance with operational requirements, and applicable legislative and regulatory requirements.

Assessment for this skill standard must be based on practical performance and supported by evidence that must take place with an operational onsite drinking water supply system.

Definitions

Compliance requirements refer to all health and safety and water services regulations and standards that apply to a workplace and to a drinking water supply.

Onsite drinking water supply system refers to drinking water supplies that are outside of the municipal drinking water systems. These may include systems onsite at marae, schools, campgrounds, rural community centres.

Operational requirements refer to the documented and embedded ways of working that govern how activities are planned, performed, monitored, and controlled in the workplace to ensure safe, consistent, and compliant operations.

Water services refer to industries responsible for working on or around water supplies, networks, plants, and systems.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

Operation

- Drinking water safety plan or acceptable solutions compliance requirements.
- Water supply and risks.
- Suitable treatment of water e.g Ultra-violet, chlorine, filtration.
- Operation of systems and processes.
- Escalation.

Monitoring

- Weather impacts.
- Consumer demand.
- Catchment monitoring.
- Compliance target levels.

Maintenance and supporting activities

- Consumable levels monitoring and ordering.
- Common process faults and causes.
- Adjustment and verification of plant, instruments, and equipment.
- Routine and corrective maintenance.
- Process faults or failures, including backflow prevention.
- Planned routine maintenance for supply continuity.
- Commissioning and installing of components.
- Completion of process records and reports to meet operational and compliance requirements.

Rauemi | Resources

Legislation, regulations and/or industry standards relevant to this skill standard include, but are not limited to:

- Drinking Water Quality Assurance Rules - [Drinking Water Quality Assurance Rules](#).
- Water Services (Drinking Water Standards for New Zealand) Regulations 2022 - [Water Services \(Drinking Water Standards for New Zealand\) Regulations 2022 \(SL 2022/168\) – New Zealand Legislation](#).
- Water Services Act 2021 - [Water Services Act 2021, Public Act Contents – New Zealand Legislation](#).
- Te Mana o te Wai - [Te Mana o te Wai implementation | Ministry for the Environment](#).
- Hazardous Substances and New Organisms Act 1996 - [Hazardous Substances and New Organisms Act 1996 No 30 \(as at 05 April 2025\), Public Act Contents – New Zealand Legislation](#).
- Health and Safety at Work (Hazardous Substances) Regulations 2017 - [Health and Safety at Work \(Hazardous Substances\) Regulations 2017 \(LI 2017/131\) \(as at 20 October 2025\) Contents – New Zealand Legislation](#).

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Energy and Infrastructure Industry Skills Board
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Engineering and Technology > Water Industry > Water Treatment

Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0120
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Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	28 May 2026	N/A
Kōrero whakakapinga Replacement information	This skill standard replaced unit standard 29997.		
Rā arotake Planned review date	31 December 2032		

Please contact Energy and Infrastructure Industry Skills Board at qualifications@energyinfra-skills.nz if you wish to suggest changes to the content of this skill standard.