

Title	Operate and maintain a small drinking-water system		
Level	3	Credits	8

Purpose	People credited with this unit standard are able to operate and maintain a small drinking-water system.
----------------	---

Classification	Water Industry > Water Treatment
-----------------------	----------------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable legislative and industry requirements.
- Legislation relevant to this unit standard includes: Health and Safety at Work Act 2015, Water Services Act 2021, Hazardous Substances and New Organisms Act 1996, Health and Safety at Work (Hazardous Substances) Regulations 2017, and subsequent amendments;
Drinking-water Standards for New Zealand, 2005 (Revised 2018), and subsequent replacements, available at taumataarowai.govt.nz.
- Definitions
Industry requirements include manufacturers' specifications; and enterprise requirements which may include documented workplace policies, procedures, specifications, business, and quality management requirements relevant to the workplace in which assessment is carried out.
Small drinking-water system – a drinking-water supply servicing from 50 to 500 people; and which includes catchment, source, treatment, and distribution.
- Learning and assessment activities for this unit standard must be informed by *Te Mana o te Wai* (refer to Taumata Arowai) and the *National Policy Statement for Freshwater Management 2020* available from <https://environment.govt.nz/>.
- Some Marae are using traditional Māori indicators to determine water quality, for example, amount of algae and weed growth, presence of algae on rock, flow rate, and smell.

Outcomes and performance criteria

Outcome 1

Operate a small drinking-water system.

Performance criteria

- 1.1 The Water Safety Plan that applies to the small-scale system is identified, and its purposes and contents are outlined in terms of operational requirements.
- 1.2 Treatment processes are carried out and adjusted in response to monitoring.
- Range may include – weather forecast, consumer demand, catchment monitoring, target levels.
- 1.3 Plant and equipment are operated.
- 1.4 Operational costs are identified and their relevance to budgeting and scheduling of maintenance is explained.
- 1.5 Records are maintained and stored.

Outcome 2

Maintain a small drinking-water system.

Performance criteria

- 2.1 Planned maintenance is carried out and recorded.
- 2.2 Actions for maintaining supply continuity during planned maintenance are carried out.
- 2.3 Reactive maintenance is carried out according to process and/or equipment failure and recorded.
- 2.4 Any required consumables are checked and ordered.

Planned review date	31 December 2026
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	16 March 2017	31 December 2024
Review	2	24 February 2022	N/A

Consent and Moderation Requirements (CMR) reference	0101
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihanga.nz if you wish to suggest changes to the content of this unit standard.