

Title	Describe safe practices when working with hazards in small drinking-water and wastewater systems		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: describe safe practice requirements and health and safety legislation in relation to small drinking-water and wastewater systems; demonstrate knowledge of hazards relevant to small drinking-water and wastewater treatment processes; demonstrate knowledge of personal health risks, hygiene procedures, and preventative practices for people working with drinking-water and wastewater systems; and describe the actions required in the event of a hazardous situation in small drinking-water or wastewater systems.
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Classification	Water Industry > Water - Generic
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Available grade	Achieved
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Guidance Information

- 1 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.
- 2 Legislation relevant to this unit standard includes the 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.
- 3 **Definitions**
A hazardous situation is a situation in which harm may occur, and can include situations related to equipment, chemicals, environment, work tasks, or behaviour.
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 up to 500 people; and which includes catchment, source, treatment, and distribution.
Small wastewater system refers to a system treating wastewater from 50 to 500 people, and which includes collection, treatment, and discharge.
Wastewater may include stormwater and sewage systems.

- 4 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/>.

Outcomes and performance criteria

Outcome 1

Describe safe practice requirements and health and safety legislation in relation to small drinking-water and wastewater systems.

Performance criteria

- 1.1 Obligations of the employer and worker are described in terms of health and safety legislation.

Range safe environments, hazards and identification, training, accidents, site safety plan.

- 1.2 Duties of hazard management are described in terms of health and safety legislation.

Range safe environments, hazards and identification, risk management, training, notifiable events, site safety plan.

- 1.3 Requirements of incident recording and investigation are described in terms of health and safety legislation.

- 1.4 Actions undertaken when supervising contractors and visitors on the site of a small drinking-water or wastewater system are described.

Outcome 2

Demonstrate knowledge of hazards relevant to small drinking-water and wastewater treatment processes.

Range hazards include – electrical, chemical, biological, confined space, water pressure, working at heights, tanks, trenches; evidence of three hazards is required.

Performance criteria

- 2.1 Hazard information is identified and described in terms of location and content for drinking-water and wastewater treatment hazards.

Range container labelling, safety data sheets, reference documents, databases, standard operating procedures; evidence of one is required.

- 2.2 The information gathered is described in terms of use for identifying, minimising and eliminating the hazards.

Outcome 3

Demonstrate knowledge of personal health risks, hygiene procedures, and preventative practices for people working with small drinking-water and wastewater systems.

Performance criteria

- 3.1 Standard preventative practices for personnel are described in terms of personal health risks and methods to reduce these risks.
- 3.2 Hygiene procedures are described for staff maintaining small drinking-water and wastewater systems.

Outcome 4

Describe the actions required in the event of a hazardous situation in small drinking-water or wastewater systems.

Performance criteria

- 4.1 The actions required to locate the hazard source are described.
- 4.2 The actions taken to minimise the risks are identified and described.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	1 February 2001	31 December 2018
Review	2	19 September 2008	31 December 2018
Review	3	16 March 2017	31 December 2024
Review	4	24 February 2022	N/A

Consent and Moderation Requirements (CMR) reference	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihangā 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.