

Title	Describe safe practices when working with hazards in water and wastewater treatment plants		
Level	3	Credits	4

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

- 1 Legislation relevant to this unit standard includes the Health and Safety at Work Act 2015, and subsequent amendments.
- 2 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.
Organisational procedures – instructions to staff, and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – site specific requirements, manufacturers’ specifications, product quality specifications, and legislative or regulatory requirements.
Small drinking-water supply – a drinking-water supply servicing up to 500 people; and which includes catchment, source, treatment, and reticulation.
Wastewater may include stormwater and sewage systems.
- 3 Assessment for this unit standard should be contextualised to the candidate’s own workplace. For those working with small drinking-water supplies, plant may include the reticulation system.

Outcomes and evidence requirements

Outcome 1

Describe organisational safe practice requirements and health and safety legislation in relation to water and wastewater treatment plants.

Evidence requirements

- 1.1 The 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 The 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 The requirements of incident recording and investigation are outlined in terms of health and safety legislation.
- 1.4 The actions undertaken when supervising contractors and visitors on a water or wastewater treatment plant site are described in accordance with organisational procedures.

Outcome 2

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

Range three of – electrical, chemical, biological, confined space, water pressure, working at heights, tanks, trenches.

Evidence requirements

- 2.1 Hazard information is identified and described in terms of location and content for water and wastewater treatment hazards.
- Range one of – container labelling, safety data sheets, reference documents, databases, standard operating procedures.
- 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 preventive practices for people working in water and wastewater treatment plants.

Evidence requirements

- 3.1 Standard preventive 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 both water and wastewater systems in accordance with organisational procedures.

Outcome 4

Describe the actions required in the event of a hazardous situation in water or wastewater treatment plants.

Evidence requirements

- 4.1 The actions required to locate the hazard source are described in accordance with organisational procedures.
- 4.2 The actions taken to minimise the risks are identified and described in accordance with organisational procedures.

Planned review date	31 December 2021
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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	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>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.