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| <b>Title</b> | <b>Demonstrate knowledge of source water risk management planning</b> |                |          |
| <b>Level</b> | <b>5</b>  | <b>Credits</b> | <b>3</b> |

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| <b>Purpose</b> | People credited with this unit standard are able to demonstrate knowledge of source water risk management planning. |
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| <b>Classification</b> | Water Industry > Water Treatment |
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| <b>Available grade</b> | 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 relevant legislative and industry requirements.
- 2 Legislation and references relevant to this unit standard include: Health and Safety at Work Act 2015, and subsequent amendments;  
AS/NZS ISO 31000:2009, *Risk management - Principles and guidelines* available at <https://www.standards.govt.nz/>;  
World Health Organisation, *Guidelines for Drinking-water Quality*, 4<sup>th</sup> edition, (Geneva, 2017).
- 3 Definitions  
*Industry requirements* may refer to but are not limited to relevant company policies, processes, methodologies, industry codes of practice, company or site specific health and safety plans, standard operating procedures, site safety plans, quality plans, work plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer's requirements, contract specifications, manuals, procedural documents.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of source water risk management planning.

#### Performance criteria

- 1.1 The nature of source water quality is described in terms of contaminants, the risk they pose to health and the implications for treatment.
- 1.2 The nature of risk, concepts of hazard, likelihood of risk, consequence of risk occurring are explained in relation to development of source water risk management plans.

- 1.3 The differences between risk assessment and the quantification of risk are explained in relation to development of source water risk management plans.
- 1.4 Hazards are described in terms of performance monitoring, parameters, and control limits.
- 1.5 Prioritisation of risk is described in terms of impact on public health and development of source water risk management plans.
- 1.6 Risk management is described in terms of preventive actions, contingency plans, and improvement schedules.
- 1.7 Source water risk management planning is explained in terms of the roles of individuals in the preparation and implementation.
- 1.8 Assessment of source water risk management plans is described in terms of the process and consequences if found inadequate.

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| <b>Planned review date</b> | 31 December 2025 |
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#### Status information and last date for assessment for superseded versions

| Process      | Version | Date            | Last Date for Assessment |
|--------------|---------|-----------------|--------------------------|
| Registration | 1       | 28 January 2021 | N/A                      |

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| <b>Consent and Moderation Requirements (CMR) reference</b> | 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 Connexis - Infrastructure Industry Training Organisation [qualifications@connexis.org.nz](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.