

<b>Title</b>	<b>Conduct risk management in an infrastructure asset management context</b>		
<b>Level</b>	<b>6</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	<p>This unit standard is for people who work within the infrastructure asset management sector.</p> <p>People credited with this unit standard are able to: apply risk policies and procedures to infrastructure asset management, and process feedback for risk management improvement; and, in an infrastructure asset management context, carry out risk analysis, determine intervention options for a risk treatment plan and implement a management system, and document risk management.</p>
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<b>Classification</b>	Infrastructure Civil Engineering > Infrastructure Asset Management
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<b>Available grade</b>	Achieved
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### Guidance Information

- The following requirements apply to this unit standard:  
*International Infrastructure Management Manual (IIMM)* guidelines available at <https://www.ipwea.org/>;  
AS/NZS 4360: 2009 *Risk management* and HB 436:2004 *Risk Management Guidelines – Companion to AS/NZS 4360:2004* available from <http://www.standards.co.nz>;  
ISO 55000 series available at <https://www.iso.org/>;  
the ethical codes and standards relevant to a professional body or bodies; and  
legislative requirements which may include but are not limited to:  
Treaty of Waitangi Act 1975,  
Health and Safety at Work Act 2015,  
Resource Management Act 1991,  
Building Act 2004,  
Copyright Act 1994,  
Local Government Act 2002,  
Public Works Act 1981,  
Land Transport Management Act 2003, and subsequent amendments.
- Evidence for assessment must be related to the management of one or more infrastructure asset groups, such as those listed in the definition below for *infrastructure assets* and be in accordance with organisational requirements. Assessment against this unit standard must be based on evidence from the workplace context.

### 3 Definitions

*Infrastructure asset management* is the combination of management, financial, economic, engineering, and other practices applied to infrastructure assets with the objective of providing the required levels of service in the most cost effective and sustainable manner.

*Infrastructure assets* typically refer, but are not limited, to asset groups such as roads and bridges, airports, railways, ports, parks and recreation facilities, water supply systems, stormwater systems, wastewater systems, flood and land drainage systems, solid waste management, telecommunications, energy, and infrastructure buildings and facilities.

*Organisational requirements* refer to strategies, policies, procedures, and requirements of the candidate's organisation.

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## Outcomes and performance criteria

### Outcome 1

Apply risk policies and procedures to infrastructure asset management, and process feedback for risk management improvement.

Range risk contexts may include but are not limited to – strategic and political context, organisational context, service delivery functions.

### Performance criteria

1.1 The organisation's risk policies and procedures are contextualised and applied to asset management activities.

1.2 Feedback gathered is organised and presented to the Senior Asset Manager.

Range feedback sources may include but are not limited to – stakeholders, organisational learning.

### Outcome 2

Carry out risk analysis in an infrastructure asset management context.

### Performance criteria

2.1 The likelihood of events occurring, and the magnitude of their potential consequences, are evaluated in the context of the defined organisational existing controls.

2.2 The likelihood of events and the magnitude of their consequences are combined to produce a profile of risk.

2.3 Sensitivity analysis to determine the extent of potential risk is carried out in accordance with industry best practice.

**Outcome 3**

Determine intervention options for a risk treatment plan and implement a management system in an infrastructure asset management context.

**Performance criteria**

- 3.1 Intervention options to treat the risk are identified.  
 Range may include but is not limited to – avoid, retain and manage, share, transfer, reduce likelihood, reduce consequences.
- 3.2 Risk treatment plan is developed.  
 Range responsibilities, schedules, performance criteria, provision for review.
- 3.3 Management system to monitor methods and actions against performance criteria is implemented.

**Outcome 4**

Document risk management in an infrastructure asset management context.

**Performance criteria**

- 4.1 All underlying assumptions are reported with other information in a concise and legible manner which meets organisational requirements.  
 Range may include but is not limited to – costs and benefits, methods, data sources, results, record of risks, risk management plan.
- 4.2 Risk information is recorded and filed.

<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	27 April 2000	31 December 2017
Revision	2	19 February 2004	31 December 2017
Review	3	26 March 2007	31 December 2017
Review	4	19 May 2016	31 December 2022
Revision	5	28 September 2017	31 December 2022
Review	6	22 October 2020	N/A

<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>.

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### 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.