

Title	Demonstrate knowledge of infrastructure asset information management		
Level	6	Credits	10

Purpose	<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: demonstrate knowledge of infrastructure asset management information systems; and describe the collection and management of infrastructure asset management data.</p>
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Classification	Infrastructure Civil Engineering > Infrastructure Asset Management
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Available grade	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/>;
 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,
 Health Act 1956,
 Building Act 2004,
 Copyright Act 1994,
 Local Government Act 2002,
 Public Works Act 1981,
 Land Transport Management Act 2003, and subsequent amendments.
- Assessment against this unit standard may be based on evidence from provider and/or workplace contexts.
- 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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of infrastructure asset management information systems.

Performance criteria

- 1.1 Characteristics and components of infrastructure asset management information systems are evaluated in terms of required functionality and fitness for purpose.
- Range three systems including at least one system currently being used in own organisation and/or described in IIMM guidelines.
- 1.2 An infrastructure asset management information system is described in terms of function, inputs, internal model (if applicable), and available queries and reports.
- 1.3 An infrastructure asset management information system is described in terms of implementation process.
- Range identifying information needs, identifying resource requirements, supporting business processes, trial, installations, testing, commissioning.

Outcome 2

Describe the collection and management of infrastructure asset management data.

Performance criteria

- 2.1 Optimal infrastructure asset management data collection is described in accordance with IIMM guidelines.
- Range sources, relevance, level of detail, hierarchy, confidence, methods of collection, reliability, data maintenance.
- 2.2 Infrastructure asset management data management is described in terms of, and needs for, security, back-up, track changes, access, reliability, functionality, accuracy, and maintenance.

Replacement information	This unit standard replaced unit standard 17303 and unit standard 17304.
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Planned review date	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	26 March 2007	31 December 2017
Review	2	19 May 2016	31 December 2022
Review	3	22 October 2020	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 Connexis - Infrastructure Industry Training Organisation
qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.