

Title	Explain the application of laws and standards to infrastructure asset management and methods used in contracts		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to explain: the application of standards to infrastructure asset management; the application of New Zealand laws to infrastructure asset management; the application of contract standards to infrastructure asset management; and the relative advantages and disadvantages of procurement and delivery methods used in contracts for the management of infrastructure assets.
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Classification	Infrastructure Civil Engineering > Infrastructure Asset Management
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Available grade	Achieved
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Guidance Information

- 1 The following legislation, regulations and International Standards apply or are relevant to this unit standard:
 Health and Safety at Work Act 2015,
 Health Act 1956,
 Resource Management Act 1991,
 Building Act 2004,
 Local Government Act 2002,
 Public Works Act 1981,
 Land Transport Management Act 2003 and subsequent amendments;
 ISO 55000: 2014 *Asset Management - Overview, principles and terminology*;
 ISO 31000 Risk Management Standard, and
 ISO 9000:2015 Quality Management Systems, available at <https://www.iso.org/>;
 NZS 3910:2013 *General conditions of contract*, available at <https://www.standards.govt.nz/>.
- 2 Definitions
ACE New Zealand refers to the Association of Consulting Engineers New Zealand.
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.
FIDIC refers to the suite of standard contracts held by the International Federation of Consulting Engineers available at <http://fidic.org/bookshop>.
ENZ refers to Engineering New Zealand.

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.

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

- 3 Evidence must be in accordance with organisational requirements and IIMM guidelines.

Outcomes and performance criteria

Outcome 1

Explain the application of standards to infrastructure asset management.

Performance criteria

- 1.1 The application of standards to infrastructure asset management is explained.

Range must include but is not limited to – risk management, quality assurance, financial reporting and valuation and asset management standards.

Outcome 2

Explain the application of New Zealand laws to infrastructure asset management.

Performance criteria

- 2.1 The application of the New Zealand legislation to infrastructure asset management is explained.

Range must include two of – Health and Safety at Work Act 2015, Resource Management Act 1991, Local Government Act 2002, Building Act 2004.

Outcome 3

Explain the application of contract standards to infrastructure asset management.

Performance criteria

- 3.1 The application of contract standards to infrastructure asset management is explained.

Range may include but is not limited to – NZS 3910:2013, FIDIC, ACENZ/ENZ professional services conditions.

Outcome 4

Explain the relative advantages and disadvantages of procurement and delivery methods used in contracts for the management of infrastructure assets.

Range methods may include but are not limited to – design and build, design build operate, design build operate transfer, private public partnership, conventional, supply and install, supply install maintain; evidence of three methods is required.

Performance criteria

- 4.1 Procurement and delivery methods are explained in terms of relative advantages with contracts for the management of infrastructure assets.
- 4.2 Procurement and delivery methods are explained in terms of relative disadvantages with contracts for the management of infrastructure assets.

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	19 May 2016	31 December 2022
Review	2	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.