

Title	Demonstrate knowledge of engineering projects and the role of project management		
Level	6	Credits	3

Purpose	People credited with this unit standard are able to demonstrate knowledge of: the stages involved in the implementation of an engineering project; the role of a project manager in the implementation of an engineering project; and the role of quality assurance procedures in the implementation of an engineering project.
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Classification	Engineering > Generic Engineering
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Available grade	Achieved
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Guidance Information

- 1 This unit standard is for technician engineers and recognises the acquisition of knowledge; it does not require those seeking credit to demonstrate competence in the application of this knowledge to a range of engineering contexts and situations.
- 2 The following note shall apply to the performance of all outcomes in this unit standard:
All activities must comply with any policies, procedures, and requirements of the organisations involved; the ethical codes and standards relevant to professional bodies; and any relevant cultural, legislative and/or regulatory requirements, which may include but are not limited to: the Treaty of Waitangi, Health and Safety at Work Act 2015, Resource Management Act 1991, Building Act 2004, Copyright Act 1994, and their subsequent amendments and regulations.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the stages involved in the implementation of an engineering project.

Range from the initial identification of the need or problem to the commissioning of the facility produced.

Performance criteria

1.1 The description outlines stages which are essential to the successful completion of an engineering project.

Range feasibility report, design report, tender documents, tender analysis, forming a contract, administering a contract, completing contractor obligations, commissioning.

1.2 The description outlines the parties involved in a project and their role in its successful completion.

Range parties include – owner, contract manager, consultant engineer, contractor.

Outcome 2

Demonstrate knowledge of the role of a project manager in the implementation of an engineering project.

Performance criteria

2.1 The description outlines the involvement of the project manager in each stage of the project.

Range feasibility report, design report, tender documents, tender analysis, forming a contract, administering a contract, completing contractor obligations, programming, resources, costs, quality commissioning.

Outcome 3

Demonstrate knowledge of the role of quality assurance procedures in the implementation of an engineering project.

Performance criteria

3.1 The description establishes the differences between quality assurance procedures and quality inspection as they apply to all stages of an engineering project.

3.2 The description outlines the contractor and engineer relationship under both quality assurance and quality inspection systems.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 February 1998	31 December 2020
Revision	2	7 June 2000	31 December 2020
Revision	3	19 February 2004	31 December 2020
Revision	4	14 July 2005	31 December 2020
Rollover and Revision	5	18 December 2006	31 December 2020
Review	6	24 January 2019	31 December 2020

Consent and Moderation Requirements (CMR) reference

0101

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.