

Title	Prepare the design and delivery documentation for an irrigation system		
Level	5	Credits	15

Purpose	People credited with this unit standard are able to: prepare a design report and contract, an installation and commissioning programme; create as-built drawings; and produce an operation and maintenance manual for an irrigation system.
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Classification	Water Industry > Irrigation
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Available grade	Achieved
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Guidance Information

- 1 Legislation, regulations, and the policy statement relevant to this unit standard include but are not limited to:
 - Building Act 2004;
 - Health and Safety at Work Act 2015;
 - Resource Management Act 1991;
 - Electrical (Safety) Regulations 2010;
 - Resource Management (Measurement and Reporting of Water Takes) Regulations 2010;
 - National Policy Statement for Freshwater Management 2014;
 - Local bylaws;
 - and any subsequent amendments.

- 2 For the purposes of assessment:
 - the irrigation system performance assessment is for an agricultural or horticultural property, sports turf, or public ground;
 - evidence for all outcomes must be presented in accordance with: New Zealand Piped Irrigation System Performance Assessment Code of Practice; New Zealand Piped Irrigation Systems Design Code of Practice; New Zealand Piped Irrigation Systems Installation Code of Practice; New Zealand Water Measurement Code of Practice; and Irrigation New Zealand Technical Glossary; available from the Irrigation New Zealand website, <http://irrigationnz.co.nz/>.

- 3 References
 - Guide for Writing an Irrigation System Commissioning Report
 - The Irrigation New Zealand Guideline for Backflow Prevention
 - The Irrigation New Zealand Guideline for Writing a Design Brief
 - The Irrigation New Zealand Design Checklist
 - The Irrigation New Zealand Guideline for Operation and Maintenance Manual
 All documents are available from the Irrigation New Zealand website, <http://irrigationnz.co.nz/>.

Outcomes and performance criteria

Outcome 1

Prepare a design report and contract to deliver an irrigation system.

Performance criteria

- 1.1 Prepare a report detailing irrigation system specifications.
- 1.2 Determine operation costs for an irrigation system.
- 1.3 Prepare a contract for supply, installation and commissioning of an irrigation system.

Outcome 2

Prepare an installation programme for an irrigation system.

Performance criteria

- 2.1 Identify critical milestones and external factors that may affect the programme of work and prepare an installation programme of work.

Outcome 3

Prepare a commissioning programme for an irrigation system.

Performance criteria

- 3.1 Prepare a commissioning programme, taking into account critical milestones and external factors.

Outcome 4

Create as-built drawings of an irrigation system.

Performance criteria

- 4.1 Identify appropriate measurements and determine scale to produce an as-built drawing.
- 4.2 Create as-built drawings of an irrigation system.

Outcome 5

Produce an operation and maintenance manual for an irrigation system.

Performance criteria

- 5.1 Select and collate information to produce an operation and maintenance manual for an irrigation system.

Replacement information	This unit standard replaced unit standards 25137 and 25138.
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Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 August 2015	31 December 2022
Review	2	27 February 2020	N/A

Consent and Moderation Requirements (CMR) reference	0179
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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 the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.