

Title	Select, oversee installation, and commission a full pipe water measurement system		
Level	5	Credits	8

Purpose	<p>This unit standard is for people who are responsible for the selection, overseeing installation, and commissioning of full pipe water measurement systems.</p> <p>People credited with this unit standard are able to: select a full pipe water measurement system; prepare for and oversee installation of a full pipe water measurement system; and commission the full pipe water measurement system and complete an installation report.</p>
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Classification	Water Industry > Irrigation
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Available grade	Achieved
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Guidance Information

- 1 Legislation, regulations, policy statement and workplace procedures 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;
 - Electricity (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:
 - evidence for this unit standard must be collected from two separate commercial irrigation systems.
 - the irrigation system performance assessment is for an agricultural or horticultural property, sports turf, or public ground.
- 3 Definition

Full pipe water measurement system refers to all components of the measurement configuration which includes:

 - Service water meter – instrument that continuously measures and records the flow of water that passes through it.
 - Headworks – the structure at the head of the system that contains the service water meter.

4 References

- New Zealand Piped Irrigation System Performance Assessment Code of Practice;
 - New Zealand Piped Irrigation Systems Installation Code of Practice;
 - New Zealand Water Measurement Code of Practice;
 - Irrigation New Zealand Technical Glossary;
- All are available from the Irrigation New Zealand website, <http://irrigationnz.co.nz/>.

- 5 The water meter selected must be supplied by a manufacturer who is certified as compliant with ISO 9001 – Quality Management Systems.

Outcomes and performance criteria

Outcome 1

Select a full pipe water measurement system.

Performance criteria

- 1.1 Select a full pipe water measurement system to be installed in accordance with legislation, regulations, guidelines, and codes of practice.

Outcome 2

Prepare for and oversee installation of a selected full pipe water measurement system.

Performance criteria

- 2.1 Check selected water meter components and install and confirm their configurations to minimise flow disturbances.
- 2.2 Check installed water measurement system location for consistency with legislation, regulations and guidelines.
- 2.3 Check the water measurement system is not compromised post installation site reinstatement.

Outcome 3

Commission the full pipe water measurement system and complete an installation report.

Performance criteria

- 3.1 Commission a full pipe water measurement system.
- 3.2 Write and submit an installation report to the relevant regional council.

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 October 2011	31 December 2022
Review	2	27 February 2020	N/A

Consent and Moderation Requirements (CMR) reference

0179

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 at standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.