

Title	Carry out seasonal irrigation system scheduling for an irrigation site		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: identify irrigation site characteristics and weather forecast conditions; schedule irrigation events and identify their impact on the seasonal progress of the irrigation schedule; and carry out a cost benefit analysis for applying water during an irrigation event and recommend a course of action.
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Classification	Water Industry > Irrigation
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Available grade	Achieved
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Guidance Information

- 1 Legislation, 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;
 - National Policy Statement for Freshwater Management 2014; 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; and
 - evidence for all outcomes must be presented in accordance with New Zealand Piped Irrigation System Performance Assessment 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/>.

Outcomes and performance criteria

Outcome 1

Identify irrigation site characteristics and weather forecast conditions.

Performance criteria

1.1 Identify site characteristics.

Range soil, crop, moisture levels, evapotranspiration rate; evidence of three different site characteristics is required.

1.2 Identify prevailing weather forecast conditions.

Range evidence of three different weather forecast conditions is required.

1.3 Identify system and management constraints in relation to site conditions.

Outcome 2

Schedule irrigation events and identify their impact on the seasonal progress of the irrigation schedule.

Performance criteria

2.1 Calculate depth of water to apply and schedule an irrigation event.

2.2 Time irrigation scheduling events to reflect best advantage of naturally occurring seasonal weather patterns.

2.3 Carry out irrigation event scheduling over a season and record the impact on seasonal progress.

Outcome 3

Carry out a cost benefit analysis for applying water during an irrigation event and recommend a course of action.

Performance criteria

3.1 Calculate the cost of applying water for an irrigation event.

3.2 Analyse the benefit of water application to the crop.

3.3 Recommend a course of action that reflects the best outcome in relation to the results of the cost benefit analysis.

Replacement information	This unit standard replaced unit standard 20958 and unit standard 20957.
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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.