

Title	Demonstrate knowledge of irrigation systems used in sports turf, water sources and permit regulations		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: describe the importance of plant water requirements and effect of overwatering on turf plants; demonstrate knowledge of the range of irrigation systems used in a sports turf context; describe the layout, purpose and maintenance requirements of a fixed irrigation system; and describe water sources and water permit regulations.
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Classification	Sports Turf > Sports Turf Construction and Drainage
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
 - Resource Management Act 1991; and any subsequent amendments.
- 2 Water permit regulations and water consents are available from local authorities.
- 3 Definition

Workplace procedures – the procedures and standards set down by the client or employing organisation. Workplace procedures should reflect equipment manufacturer's requirements, and current legislation.
- 4 For the purposes of assessment:
 - evidence must be presented in accordance with workplace procedures.

Outcomes and performance criteria

Outcome 1

Describe the importance of plant water requirements and effect of overwatering on turf plants.

Performance criteria

- 1.1 Describe the importance of plant water requirements for turf plant growth and processes.
- 1.2 Describe the effect of overwatering on turf plant growth.

Outcome 2

Demonstrate knowledge of the range of irrigation systems used in a sports turf context.

Performance criteria

- 2.1 Describe characteristics of each irrigation system in terms of how it functions.
- Range fixed, travelling, micro, hand.
- 2.2 Identify an advantage and disadvantage of each system as an irrigation method for sports turf.
- Range fixed, travelling, micro, hand.
- 2.3 Compare irrigation systems in terms of their use in sports turf sectors.
- Range irrigation systems may include – fixed, travelling, micro, hand; sectors may include but are not limited to – bowls, cricket, golf, hockey, racing and sportsfields; evidence of two different sectors is required.

Outcome 3

Describe the layout, purpose and maintenance requirements of a fixed irrigation system.

Performance criteria

- 3.1 Describe a fixed irrigation system in terms of the layout and purpose of each irrigation feature.
- Range water source, pump, filter, valves, pipework, heads.
- 3.2 Describe a fixed irrigation system in terms of system maintenance.
- Range maintenance – sprinklers, heads, filters.

Outcome 4

Describe water sources and water permit regulations.

Performance criteria

- 4.1 Describe the advantages and disadvantages of each water source in terms of its suitability for sports turf situations.
- Range river, stream, city water supply, lake, dam, artesian bore; evidence of two advantages and disadvantages for each water source is required.

- 4.2 Describe water permit regulations in terms of their importance to the environment.

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	24 June 2021	N/A

Consent and Moderation Requirements (CMR) reference	0052
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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.