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| <b>Title</b> | <b>Describe sports turf irrigation system installation and repair, and operate, adjust, and maintain the irrigation system</b> |                |           |
| <b>Level</b> | <b>4</b>   | <b>Credits</b> | <b>10</b> |

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| <b>Purpose</b> | People credits with this unit standard are able to: describe installation procedures for a sports turf irrigation system; operate, adjust, and maintain a sports turf irrigation system; and describe procedures to drain a system and repair leaks. |
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| <b>Classification</b> | Sports Turf > Sports Turf Management |
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| <b>Available grade</b> | Achieved |
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### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
  - Health and Safety at Work Act 2015; and any subsequent amendments.
- 2 Definition  
*Workplace procedures* – procedures and standards set down by the client or employing organisation for operating, adjusting and maintaining a sports turf irrigation system. Workplace procedures should reflect equipment manufacturer's requirements, the operator's manual and current legislation
- 3 For the purposes of assessment:
  - evidence must be presented in accordance with workplace procedures.

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### Outcomes and performance criteria

#### Outcome 1

Describe installation procedures for a sports turf irrigation system.

#### Performance criteria

- 1.1 Describe installation procedures for a sports turf irrigation system in accordance with manufacturer's recommendations, and irrigation system design.

**Range** must include but is not limited to – staking, trenching, pipe laying, gluing techniques, pipe pulling, risers, valves, control lines, backfilling, line flushing, sprinkler head positioning, pressure testing.

**Outcome 2**

Operate and adjust a sports turf irrigation system.

**Performance criteria**

2.1 Programme controllers.

2.2 Determine operational characteristics.

Range operational characteristics must include but are not limited to – testing irrigation cycle, measurement of quantity of water applied, calculation of coefficient of uniformity for water distribution.

2.3 Evaluate uniformity of application in terms of sprinkler head spacing, overlap, flow rate, water pressure, and application rate.

2.4 Adjust the irrigation system for maximum efficiency.

Range uniformity of application, ponding, dry patch.

2.5 Evaluate timing of water application in terms of efficiency of application and turf requirements.

Range day, night, wind, disease potential, syringing, duration.

**Outcome 3**

Maintain a sports turf irrigation system and describe procedures to drain a system and repair leaks.

**Performance criteria**

3.1 Service irrigation components during the off-season.

Range screens, pumps, filters, faulty or damaged sprinkler heads.

3.2 Describe the procedures to drain the system where a leak repair is required or there is the potential for freezing.

3.3 Procure common spare parts and the stock.

Range seals, filters, screens, sprinkler heads, springs, valves, pipe materials.

3.4 Carry out weekly visual checks during the irrigation season.

Range sprinkler head operation, pipe leaks.

3.5 Replace or repair faulty heads.

3.6 Describe the procedures to repair leaks.

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| <b>Replacement information</b> | This unit standard replaced unit standard 30591 and unit standard 30592. |
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| <b>Planned review date</b> | 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                      |

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| <b>Consent and Moderation Requirements (CMR) reference</b> | 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 Primary Industry Training Organisation [standards@primaryito.ac.nz](mailto:standards@primaryito.ac.nz) if you wish to suggest changes to the content of this unit standard.