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| <b>Title</b> | <b>Demonstrate knowledge of the desirable playing surface characteristics and requirements of natural sports turf surfaces</b> |                |           |
| <b>Level</b> | <b>4</b>                                                                                                                       | <b>Credits</b> | <b>12</b> |

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| <b>Purpose</b> | People credited with this unit standard are able to: identify and describe the desirable playing surface and performance characteristics of common sports turf surfaces; describe the influence of turf and rootzone features on visual and functional quality of turf; describe the way in which the natural environment is modified for sports turf use, and components of sports turf management; and identify and describe the similarities and differences between maintenance requirements of the major sports turf surfaces in New Zealand. |
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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* – the procedures and standards set by the client or employing organisation. Workplace procedures should reflect equipment manufacturer’s requirements, 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

Identify and describe the desirable playing surface and performance characteristics of common sports turf surfaces.

- Range playing surface characteristics may include but are not limited to – hardness, bounce, pace, smoothness, levelness, traction, uniformity, cover, orientation, safety, light;  
evidence of two is required;  
performance characteristics may include but are not limited to – dimensions, safety, light;  
evidence of two is required.

### Performance criteria

- 1.1 Identify and describe the desirable playing surface and performance characteristics for golf course surfaces.
- Range golf course surfaces must include but are not limited to – greens.
- 1.2 Identify and describe the desirable playing surface and performance characteristics for bowling greens.
- 1.3 Identify and describe the desirable playing surface and performance characteristics for cricket wicket and outfield.
- 1.4 Identify and describe the desirable playing surface and performance characteristics for small ball sports surfaces.
- Range small ball sports may include but not limited to – baseball, croquet hockey, softball, tennis;  
evidence of two is required.
- 1.5 Identify and describe the desirable playing quality characteristics for large ball sports surfaces.
- Range large ball sports may include but not limited to – football, league rugby;  
evidence of two is required.
- 1.6 Identify and describe the desirable quality characteristics for thoroughbred racetracks.

### Outcome 2

Describe the influence of turf and rootzone features on visual and functional quality of turf.

### Performance criteria

- 2.1 Describe turf features in terms of their influence on the visual quality of turf.
- Range turf features include but are not limited to – density, texture, uniformity, colour.

- 2.2 Describe turf and rootzone features in terms of their influence on the functional quality of turf.

Range turf features include but are not limited to – wear tolerance, density, texture, uniformity, spreading ability, rootzone construction type.

### Outcome 3

Describe the way in which the natural environment is modified for sports turf use, and components of sports turf management.

#### Performance criteria

- 3.1 Describe desirable plants used in sports turf in terms of the way in which they are able to tolerate the requirements of sport.

- 3.2 Describe sports turf plants in terms of their ecological habitats.

Range must include but is not limited to – pH, fertility, light, moisture, temperature.

- 3.3 Describe the soil type and construction methods used on the sports turf surface and its suitability for the playing standards and levels of use.

- 3.4 Describe components of sports turf management in terms of their role in providing a playing surface.

Range components must include but are not limited to – irrigation, fertilisation, pest, disease, weeds, mowing, renovation, grooming.

### Outcome 4

Identify and describe the similarities and differences between maintenance requirements of the major sports turf surfaces in New Zealand.

Range evidence of at least two major sports turf surfaces is required; evidence of at least two different sporting codes where – ball is impacted by surface, player is impacted by surface, is required.

#### Performance criteria

- 4.1 Identify and describe the similarities and differences between maintenance requirements for major sports turf surfaces.

Range maintenance requirements in season and out of season, plant type, root zone maintenance, inter-seasonal maintenance.

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| <b>Replacement information</b> | This unit standard replaced unit standard 1151. |
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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>.

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**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.