

<b>Title</b>	<b>Demonstrate knowledge of sports turf growth, sports turf fertilisers, and soil nutrient testing</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe turf growth; describe and compare the properties and characteristics of fertilisers used in sports turf; and describe soil nutrient testing for sports turf and identify soil nutrient deficiencies and excesses.
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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**

None.

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**Outcomes and performance criteria**

**Outcome 1**

Describe sports turf growth.

**Performance criteria**

- 1.1 Describe sports turf growth in terms of the role of and requirements of nitrogen.
- 1.2 Describe sports turf growth in terms of the role of and requirements for major and minor nutrients.
  - Range major nutrients – P, K, Mg, Ca; minor nutrient – Fe.
- 1.3 Describe sports turf growth in terms of the availability and effects of nutrients.
  - Range at least five of – root to shoot ratio, colour, disease susceptibility, plant hardiness, recovery from wear, botanical composition, establishment and density.

## Outcome 2

Describe and compare the properties and characteristics of fertilisers used in sports turf.

Range at least five of – soluble, slow release, organic, inorganic, granule, liquid, foliar, solid, straight, mixture, compound.

### Performance criteria

2.1 Describe sports turf fertilisers in terms of their solubility and formulation.

2.2 Describe sports turf fertilisers in terms of the percentages of major nutrients they contain.

2.3 Compare sports turf fertilisers in terms of their advantages and disadvantages.

Range comparisons may include but are not limited to – rate of release, size of granule, ease of application, storage and handling, characteristics, effects on soil and plant, price, availability; evidence of at least five is required.

## Outcome 3

Describe soil nutrient testing for sports turf and identify soil nutrient deficiencies and excesses.

### Performance criteria

3.1 Describe quality certified soil testing laboratory requirements and processes in terms of soil sample collection.

3.2 Describe quality certified soil testing laboratory soil sample preparation and submission process.

3.3 Identify soil nutrient deficiencies or excesses in accordance with analysis of laboratory results.

<b>Replacement information</b>	This unit standard replaced unit standard 25111.
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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

<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.