

<b>Title</b>	<b>Demonstrate understanding of the maintenance of a bowling green</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This unit standard is for people working in the sports turf industry.</p> <p>People credited with this unit standard are, for a bowling green, able to demonstrate understanding of: the playing surface requirements; in-season preparation and playing surface management; out-of-season renovation and mowing requirements, and effects of fertilisers; and describe the management of common weeds, pests, and diseases.</p>
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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 Performance criteria must be consistent with all relevant procedures and legislation (and their subsequent amendments) which include but are not limited to:
  - Workplace procedures
  - Health and Safety at Work Act 2015
  - Resource Management Act 1991
  - Hazardous Substances and New Organisms Act 1996.
- 2 Definitions
 

*Workplace procedures* – the standards and procedures set by the client or employing organisation for bowling green maintenance.

In the context of this unit standard, *understanding* means that there should be evidence of a learner's thorough comprehension of a topic. A learner with a good understanding of a topic should have applied, or should be able to apply what they have learnt to a workplace situation and will be able to alter their practices to the different contexts they are applying their learning to. Assessors should be confident that the learner's understanding is embedded in their practices and behaviour.

*Control* – regulatory, biological, genetic, cultural, physical, chemical.

## Outcomes and performance criteria

### Outcome 1

Demonstrate understanding of the playing surface requirements of a bowling green.

**Performance criteria**

1.1 Describe requirements related to the laws of the game.

Range dimensions, ditch, surface, banks, rinks.

1.2 Describe playing performance qualities of a bowling green.

Range speed, draw, smoothness, levelness, uniformity, cover.

**Outcome 2**

Demonstrate understanding of in-season preparation and playing surface management of a bowling green.

**Performance criteria**

2.1 Describe procedures to prevent and repair end wear.

Range rink movement, usage control, plugging, scrimm, species composition.

2.2 Describe in-season mowing and rolling requirements of a bowling green.

Range frequency, height of cut, pattern, grooming options.

2.3 Describe the effects of mowing and rolling on wear tolerance and playing characteristics.

Range green speed, wear tolerance.

2.4 Describe the management requirements for irrigation and prevention of heat stress for a bowling green.

Range reasons for watering, water requirement, frequency of application, syringing, end watering.

2.5 Describe the maintenance requirements of bowling green ditches.

Range holding surface, presentation, weed control.

**Outcome 3**

Demonstrate understanding of the out-of-season renovation and mowing requirements of a bowling green.

**Performance criteria**

3.1 Describe renovation procedures of a bowling green.

Range grooving, verticutting, levelling/screeding, soil topdressing, physical treatment, reinstatement of bare areas, timing.

3.2 Describe out-of-season mowing requirements of a bowling green.

Range frequency, height of cut.

**Outcome 4**

Demonstrate understanding of the fertiliser requirements of, and effects of fertilisers on a bowling green.

**Performance criteria**

4.1 Describe fertiliser requirements of a bowling green.

Range nutrient and pH requirements, seasonal requirements.

4.2 Describe the effects of fertiliser applications on playing characteristics and wear tolerance of a bowling green.

Range green speed, colour, disease, wear tolerance and recovery, growth.

**Outcome 5**

Describe the management of common weeds, pests, and diseases of a bowling green.

**Performance criteria**

5.1 Describe the management of common weeds, pests, and diseases of a bowling green.

Range seasonal occurrence, control, integrated pest management (IPM).

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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	21 December 1999	31 December 2019
Review	2	28 June 2005	31 December 2019
Review	3	17 October 2008	31 December 2019
Review	4	25 January 2018	31 December 2023
Review	5	24 June 2021	31 December 2023

**Consent and Moderation Requirements (CMR) reference**

0052

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.