Title	Demonstrate knowledge of turf species response to mowing and mowing equipment, and mow sports turf areas		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the tolerance and responses of turf species to mowing; evaluate turf mowing equipment and its use for specific situations and describe alternatives to mechanical mowing; and select mowing equipment and mow sports turf areas.
---------	---

Classification	Sports Turf > Sports Turf Management		
Available grade	Achieved		

#### **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 down by the client or employing organisation for mowing sports turf areas. 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.

# Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the tolerance and responses of turf species to mowing.

### **Performance criteria**

- 1.1 Describe the tolerance of turf species to mowing in terms of the range of acceptable cutting heights.
  - Range must include at least three cool season turf species and two warm season turf species from browntop, creeping bentgrass, Chewings fescue, red fescue, hard fescue, tall fescue, Kentucky bluegrass, *Leptinella sp, Poa annua*, perennial ryegrass, *Cynodon sp*, Kikuyu, buffalo grass, carpet grass.

- 1.2 Distinguish bench setting and effective cutting height in terms of their characteristics.
- 1.3 Describe the physiological responses of turf plants in terms of mowing frequency and cutting height.
  - Range at least five of shoot density, growth response, seedhead formation, succulence, shoot to root ratio, leaf texture, carbohydrate production.
- 1.4 Describe inappropriate mowing practices in terms of the consequences.
  - Range inappropriate mowing practices include but are not limited to scalping, inappropriate mowing frequency, inappropriate mowing height; evidence is required for at least five; consequences – thatch formation, weed invasion, disease susceptibility, wear tolerance, leaf shredding, grain and/or nap.

## Outcome 2

Evaluate turf mowing equipment and its use for specific situations and describe alternatives to mechanical mowing.

## Performance criteria

2.1 Compare mowing equipment in terms of cutting height, turf species, turf use, and cost-effectiveness.

Range reel, rotary, flail.

2.2 Evaluate mowing equipment and use in terms of factors affecting mowing quality.

Range at least five of – number of reels and blades, reel clip rate, forward speed, height of cut, corrugation, leaf shredding, grooming, mowing patterns, clippings removal.

- 2.3 Evaluate mowing frequency in terms of its relationship with shoot growth rate, environmental conditions, height of cut, and turf use.
- 2.4 Describe the features and suitability of alternatives to mechanical mowing.

Range plant growth regulators, slow growing species.

# Outcome 3

Select mowing equipment, and mow sports turf areas.

## Performance criteria

3.1	Select mowing equipment suitable for the site.		
	Range	cutting height, turf species, turf use, cost-effectiveness.	
3.2	Carry out pro	e-operational checks of mowing equipment and machinery.	
3.3	•	turf areas at a frequency suitable for the site, turf use, and all conditions.	
3.4	•	wing equipment and machinery in a safe and controlled manner and performance and efficiency.	
3.5	Recognise a mowing.	and minimise risk to self, other people, and the environment when	

3.6 Clean and maintain mowing equipment after use.

Replacement information	This unit standard replaced unit standard 1161.
-------------------------	---

Planned review date	31 December 2025	1
---------------------	------------------	---

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

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2018	31 December 2023
Review	2	24 June 2021	N/A

Consent and Moderation Requirements (CMR) reference	0052	
This CMR can be accessed at <a href="http://www.nzqa.govt.nz/framework/search/index.do">http://www.nzqa.govt.nz/framework/search/index.do</a> .		

## Comments on this unit standard

Please contact Primary Industry Training Organisation <u>standards@primaryito.ac.nz</u> if you wish to suggest changes to the content of this unit standard.