

Title	Select, set up, and operate specialist sports turf machinery and equipment		
Level	4	Credits	10

Purpose	<p>This unit standard is for people working in a sports turf context.</p> <p>People credited with this unit standard are able to: demonstrate understanding of the function and operation of sports turf machinery and equipment; and select, set up, operate, service, and store a range of sports turf machinery and equipment.</p>
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Classification	Sports Turf > Sports Turf Management
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Available grade	Achieved
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Guidance Information

- 1 Performance criteria must be consistent with all relevant procedures, guidelines, and legislation (and their subsequent amendments) which include but are not limited to:
 - Workplace procedures
 - Equipment manufacturer's guidelines
 - Health and Safety at Work Act 2015.
- 2 Definitions

Workplace procedures – refer to the written policies and procedures set by the client or employing organisation for the operation, maintenance, and storage of sports turf equipment.

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.

Outcomes and performance criteria

Outcome 1

Demonstrate understanding of the function and operation of sports turf machinery and equipment.

Performance criteria

- 1.1 Describe horizontal and vertical mowing machinery in terms of its function and operation in the sports turf industry.
- Range machinery must include but is not limited to – reel, rotary, flail, cord trimmer, groomers, verticutters, dethatchers, groovers.
- 1.2 Describe turf conditioning and aeration equipment in terms of its function and operation in the sports turf industry.
- Range at least five of – spikers, slicers, verti-drain, corers, vibramoles, mole ploughs, water injection, borers, drillers, subsoilers, gas injectors, sprayable soil conditioners.
- 1.3 Describe seedbed cultivation equipment in terms of its function and operation in the sports turf industry.
- Range at least five of – rotary hoes, power harrows, harrows, discs, ploughs, spring tyne cultivators, scarifiers, groovers.
- 1.4 Describe spreaders, seeders and planters in terms of their function and operation in the sports turf industry.
- Range at least three of – drop spreaders, rotary spreaders, seed broadcasters, seed drills, spriggers.
- 1.5 Describe turf tractors and utility vehicles in terms of their function and operation in the sports turf industry.
- 1.6 Describe surface preparation machinery and equipment in terms of their function and operation in the sports turf industry.
- Range machinery and equipment must include but is not limited to – rollers, sweepers, line markers, turf cutters, water removers, covers.
- 1.7 Describe surface performance measurement equipment in terms of its function and operation in the sports turf industry.
- Range at least two of – clegg hammer, stimp meter, straight edge, ball roll devices.

Outcome 2

Select, set up and operate a range of sports turf machinery and equipment.

Range at least three of – mowing equipment, turf conditioning and aerating equipment, seedbed cultivation equipment, spreaders and seeders, surface preparation machinery and equipment.

Performance criteria

2.1 Select and set up equipment suitable for the site, ground conditions and sports turf specifications.

2.2 Carry out pre-operation checks.

Range pre-operation checks include but are not limited to – lubrication, fuel, water, tyres, freedom from obstructions, wear.

2.3 Operate machinery and equipment in a safe and controlled manner, and monitor for performance and efficiency.

2.4 Recognise and minimise risk to self, other people, and the environment.

Outcome 3

Service and store a range of sports turf machinery and equipment.

Performance criteria

3.1 Service and store machinery and equipment.

Range at least three of – mowing equipment, turf conditioning and aerating equipment, seedbed cultivation equipment, spreaders and seeders, surface preparation machinery and equipment.

Planned review date	31 December 2022
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	4 August 1995	31 December 2019
Revision	2	4 August 1995	31 December 2019
Revision	3	16 September 1996	31 December 2019
Revision	4	10 December 1997	31 December 2019
Revision	5	8 June 1999	31 December 2019
Review	6	15 December 2000	31 December 2019
Revision	7	12 January 2006	31 December 2019
Review	8	17 October 2008	31 December 2019
Review	9	25 January 2018	N/A

Consent and Moderation Requirements (CMR) reference	0037
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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 if you wish to suggest changes to the content of this unit standard.