

Title	Establish a sports turf surface		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: prepare soil surfaces for sowing and vegetative establishment; select turf species and cultivars; sow turfgrass seed; plant vegetative turf material; and maintain newly established sports turf surface.
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Classification	Sports Turf > Sports Turf Construction and Drainage
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Available grade	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 for the establishment of a sports turf surface. Workplace procedures should reflect equipment manufacturer’s requirements, and current legislation.
- 3 A Seed Analysis Certificate can be obtained from the local office ofASUREQuality, or website http://www.seedlab.co.nz/services/market_access_certificates.cfn.
- 4 For the purposes of assessment:
 - evidence must be presented in accordance with workplace procedures.

Outcomes and performance criteria

Outcome 1

Prepare soil surfaces for sowing and vegetative establishment for a sports turf surface.

Performance criteria

- 1.1 Select surface preparation tools appropriate for the site.
- 1.2 Clear areas to be established of existing surface vegetation and debris.
- 1.3 Cultivate areas to be established to a consistent depth and tilth, with soil tilth even and suited to the requirements of the seed or vegetative materials.
- 1.4 Contour surfaces to meet the requirements of turf use.

- 1.5 Consolidate or aerate soil and maintain nutrient and moisture levels suitable for seed germination or vegetative establishment.
- 1.6 Clean and store cultivation tools after use.

Outcome 2

Select turf species and cultivars for a sports turf surface.

Performance criteria

- 2.1 Select turf species and cultivar with characteristics that are suitable for the expected use of turf, physical environment and budget.
- 2.2 Compare seeding and vegetative propagation methods of establishment in terms of the advantages and disadvantages of establishment time, labour, cost, machinery and equipment required, and the need for immediate use of the turf surface.
- Range methods of establishment must include – conventional sowing, and at least two from hydro-seeding, turfing, plugging, sprigging, stolonising.

Outcome 3

Sow turfgrass seed for a sports turf surface.

Performance criteria

- 3.1 Select certified seed in accordance with Seed Analysis Certificate data.
- Range purity, germination, age, endophyte viability.
- 3.2 Match seed bag label information with Seed Analysis Certificate data.
- 3.3 Visually confirm seed type as matching that selected from Seed Analysis Certificate data.
- 3.4 Calculate amount of seed required from the Seed Analysis Certificate results, species recommended sowing rate or specified sowing rate, and area to be sown, to meet the requirements of turf use.
- 3.5 Calibrate seeder to obtain uniform coverage at the calculated rate.
- 3.6 Sow seed uniformly in prepared seedbed taking into consideration depth of sowing and seed size.
- Range one of – broadcasting, drilling, hydro-seeding, dimple seeding.

Outcome 4

Plant vegetative turf material for a sports turf surface.

Range one of – turf rolls, plugs, sprigs, stolons.

Performance criteria

- 4.1 Check source of vegetative material for presence of any pest and disease.
- 4.2 Derive source of vegetative material from area comprising at least 95% of selected species.
- 4.3 Maintain vegetative material in a viable state after harvest and prior to establishment.
- 4.4 Match soil type in turf, plugs, sprigs, or stolons with the root zone medium.
- 4.5 Plant vegetative material uniformly on the prepared soil surface.

Outcome 5

Maintain newly established sports turf surface.

Performance criteria

- 5.1 Implement maintenance factors relating to surface environment and root zone to meet requirements for successful establishment.
Range at least four of – fertility, moisture, light, temperature, wind, mulch.
- 5.2 Establish 95% of area sown or planted in selected species with less than 5% of bare surface area.
- 5.3 Control pests, diseases and weeds in accordance with turf species requirements.
- 5.4 Maintain height and quality of cut within desired limits for establishment.

Planned review date	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	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	31 December 2023
Review	10	24 June 2021	N/A

Consent and Moderation Requirements (CMR) reference

0052

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.