

**Field      Agriculture, Forestry and Fisheries****Review of *Agriculture, Forestry and Fisheries* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Equine	Racetrack Maintenance	1614, 1615
Sports Turf	Sports Turf Construction and Drainage	1155, 1156, 1164, 4277, 4278, 4280, 17955, 21451
	Sports Turf Management	1150-1154, 1157, 1161, 1163, 1166, 1170, 1171, 1172, 4270, 4272, 4281, 17211, 17212, 20531, 20533, 21446, 21447, 21622, 23562, 23563, 25111, 25112
	Sports Turf Weeds and Pests	1158-1160, 1167-1169, 20530, 21449, 21450

The Primary Industry Training Organisation has completed the review of the unit standards listed above.

**Date new versions published**

**January 2018**

**Planned review date**

**December 2022**

**Summary**

As a result of the Targeted Review of Qualifications process, Primary ITO has reviewed a number of unit standards to better reflect the requirements of the outcomes listed in new qualifications. Primary ITO has also developed a number of new unit standards to meet industry need and reflect the outcomes listed in the new qualifications.

There are two Tertiary Education Organisations with consent to assess to Level 7, and three organisations with consent to assess reviewed unit standards. They have had the opportunity to review the relevant unit standards and offer feedback, along with industry stakeholders. This consultation was carried out by email in July 2017. All feedback was actioned where appropriate.

**Main changes**

- 45 unit standards were reviewed.
- Three standards had no major change.
- Six unit standards were replaced by new unit standards.
- Seven unit standards, (1158, 1159, 1160, 1167, 1168, 1169 and 20530) were reinstated from expiring as there are no similar replacement unit standards that meet the requirements of the graduate outcomes in related qualifications.
- Three new unit standards were developed to meet the qualification graduate outcomes.
- Two unit standards were expired without replacement.

**Category C unit standards will expire at the end of December 2019**

The last date for assessment of superseded versions of Category B standards is December 2019

### Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Field	Agriculture, Forestry and Fisheries	2	Standard	1151	4
			Standard	1152	3
Standard	1161	3	Standard	30767	3

### Impact on Consent and Moderation Requirements (CMR)

Unit standards 1614 and 1615 will transfer from CMR 0018 to CMR 0037.

### Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
<b>A</b>	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
<b>B</b>	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
<b>C</b>	Major changes that necessitate the registration of a replacement standard with a new ID
<b>D</b>	Standard will expire and not be replaced

### Agriculture, Forestry and Fisheries > Equine > Racetrack Maintenance

ID	Title	Level	Credit	Review Category
1614	Maintain sand and plough equine racetrack surfaces	3	4	B
1615	Prepare and maintain the race club facility, before, during and after a race meeting	3	5	B

### Agriculture, Forestry and Fisheries > Primary Sector > Primary Sector Resources Management

ID	Title	Level	Credit	Review Category
<b>30594</b>	<b>Use information technology to inform primary industry management decisions</b>	<b>4</b>	<b>7</b>	<b>New</b>
<b>30595</b>	<b>Select and implement information technology for primary industry management</b>	<b>5</b>	<b>5</b>	<b>New</b>

### Agriculture, Forestry and Fisheries > Sports Turf > Sports Turf Construction and Drainage

ID	Title	Level	Credit	Review Category
1155	Survey a sports turf area	3 <b>4</b>	5	B
1156	Drain a sports turf area <b>Demonstrate understanding of, and install, drainage in a sports turf area</b>	3 <b>4</b>	5	B

ID	Title	Level	Credit	Review Category
1164	Establish a sports turf surface	3 4	10	B
4277	Investigate sources of irrigation water and its management in a sports turf environment	6	10	B
4278	Research and design a sports turf drainage system	7	15	B
17955	Demonstrate knowledge of methods of upgrading sports turf root zones <b>Demonstrate understanding of methods of upgrading sports turf root zones</b>	4	7	B
21451	Research and evaluate design requirements for sports turf irrigation systems	6	15	B

Agriculture, Forestry and Fisheries > Sports Turf > Sports Turf Construction and Drainage  
Agriculture, Forestry and Fisheries > Sports Turf > **Sports Turf Management**

ID	Title	Level	Credit	Review Category
4280	Prepare contract documentation for sports turf work	6	15	C
<b>30590</b>	<b>Apply contract and procurement management to a sports turf project</b>	<b>6</b>	<b>20</b>	

Agriculture, Forestry and Fisheries > Sports Turf > Sports Turf Management

ID	Title	Level	Credit	Review Category
1150	Demonstrate knowledge of the structure and organisation of the New Zealand sports turf industry <b>Demonstrate understanding of the structure and organisation of the New Zealand sports turf industry</b>	2	5	B
1151	Demonstrate knowledge of the characteristics and requirements of sports turf surfaces <b>Demonstrate understanding of the characteristics and requirements of sports turf surfaces</b>	2 4	10	B
1152	Demonstrate knowledge of turf botany <b>Demonstrate understanding of turf botany</b>	2 3	5	B
1153	Use sports turf machinery and equipment <b>Select, set up, and operate specialist sports turf machinery and equipment</b>	3 4	10	B
1154	Demonstrate knowledge of trees and shrubs used for turf areas <b>Demonstrate understanding of trees and shrubs used for turf areas</b>	2	5	B
1157	Demonstrate knowledge of sports turf soil water management <b>Demonstrate understanding of sports turf soil water management</b>	3	6 5	B

ID	Title	Level	Credit	Review Category
1161	Demonstrate knowledge of the mowing of turf areas	3	4	C
<b>30767</b>	<b>Demonstrate understanding of turf species response to mowing and mowing equipment, and mow sports turf areas</b>	<b>3</b>	<b>5</b>	
1163	Fertilise a sports turf area	3	5	B
	<b>Calculate fertiliser requirements, and apply fertiliser to a sports turf area</b>			
1166	Irrigate sports turf areas	4	10	C
<b>30591</b>	<b>Demonstrate understanding of, and operate, adjust, and maintain, a sports turf irrigation system</b>	<b>3</b>	<b>8</b>	
<b>30592</b>	<b>Demonstrate understanding of the principles of sports turf irrigation system design and installation</b>	<b>4</b>	<b>2</b>	
1170	Compare maintenance requirements for major sports turf surfaces, and maintain a sports turf surface	4	25 <b>20</b>	B
1171	Supervise staff working on sports turf facilities	4	10	B
1172	Prepare and present a budget for turf operations	4	20	B
4270	Performance test a sports turf surface	6	10	C
<b>30589</b>	<b>Benchmark a sports turf surface, and develop, implement and monitor a turf management plan</b>	<b>5</b>	<b>15</b>	
4272	Appraise machinery requirements for a sports turf organisation and present a purchase proposal	6	10	C
<b>30588</b>	<b>Appraise sports turf enterprise fixed asset needs and identify and select solutions</b>	<b>5</b>	<b>15</b>	
4281	Research a project of significance to the sports turf industry	7	20	C
<b>31072</b>	<b>Research and report on a sports turf management initiative</b>	<b>6</b>	<b>20</b>	
17211	Demonstrate knowledge of the maintenance of cricket blocks	3	5	B
	<b>Demonstrate understanding of the maintenance of cricket blocks</b>			
17212	Demonstrate knowledge of the maintenance of a bowling green	3	5	B
	<b>Demonstrate understanding of the maintenance of a bowling green</b>			
20531	Use amenity turf maintenance tools and small equipment	3	6	B
	<b>Use and care for amenity turf maintenance tools and small equipment</b>			
20533	Mow turf areas	3	10	B
	<b>Select and prepare specialist mower types, mow turf areas, and complete post-mowing requirements</b>			

ID	Title	Level	Credit	Review Category
21446	Prepare a feasibility study for a sports turf development or redevelopment <b>Prepare a feasibility study and report for a sports turf development or redevelopment</b>	6	10 <b>25</b>	B
21447	Prepare a sports turf facility to host a major event, and complete a post-event evaluation	6	20	B
21622	Demonstrate knowledge of the maintenance of a sportsfield	3	5	A
23562	Prepare a cricket pitch for play, and carry out post-match cricket pitch repairs	4	10	A
23563	Renovate a cricket block	4	8	A
25111	Demonstrate understanding of nutrients and fertilisers for turf	3	5	B
25112	Assess soil, and plan a fertiliser programme for turf use	4	8 <b>10</b>	B
<b>30593</b>	<b>Develop and manage a plan for a sports turf enterprise</b>	<b>5</b>	<b>20</b>	<b>New</b>

## Agriculture, Forestry and Fisheries &gt; Sports Turf &gt; Sports Turf Weeds and Pests

ID	Title	Level	Credit	Review Category
1158	Identify and monitor common turf pests	3	5	B*
1159	Identify common turf weeds	3	5	B*
1160	Identify common turf diseases and disorders	3	5	B*
1167	Control common turf pests <b>Control common turf pests on a sports turf site</b>	4	7	B*
1168	Control common turf weeds <b>Control common turf weeds on a sports turf site</b>	4	7	B*
1169	Control common turf diseases <b>Control common turf diseases on a sports turf site</b>	4	7	B*
20530	Demonstrate knowledge of weeds, pests, diseases, and disorders of amenity turf areas <b>Demonstrate understanding of weeds, pests, diseases, and disorders of amenity turf areas</b>	3	10	B*
21450	Design and implement a weed control programme for a sports turf surface	6 <b>5</b>	15 <b>8</b>	B*

\*Standards were reinstated.

## Agriculture, Forestry and Fisheries &gt; Sports Turf &gt; Sports Turf Weeds and Pests

Agriculture, Forestry and Fisheries > Sports Turf > **Sports Turf Management**

ID	Title	Level	Credit	Review Category
21449	Design pest and disease control programmes for sports turf surfaces	6 <b>5</b>	15 <b>8</b>	B