

U17902 Present, maintain and repair sports turf surfaces for play

Unit Descriptor:

This unit is about presenting sports turf surfaces so that they meet the requirements of a sport and a particular event. It also covers repairing and renovating the surface following play. It is for members of staff who can carry out the work described under limited supervision only.

The typical tasks you would carry out to complete this unit include:

- selecting, preparing and using equipment
- preparing the sports turf surface by:
 - mowing with powered equipment
 - irrigating using rotary, oscillating and pop up sprinklers
 - scarifying and verti-cutting using pedestrian controlled, ride-on and tractor mounted/trailed equipment
 - rolling using pedestrian or powered equipment
 - top dressing using manual and powered equipment
 - brushing using pedestrian controlled, ride on and tractor mounted/trailed brushes
 - setting out of sports equipment in accordance with the standard for the event
- producing a surface with the correct speed, surface response to ball, animal or player, moisture content, grass cover, consolidation and trueness according to the requirements of the sport and standard for the event.
- application of fertilizers by hand and distributor.
- identifying, assessing and preparing correctly the surface in need to renovation and repair
- renovating and repairing damaged areas according to the degree of damage and the type of surface by:
 - seeding by hand and use of distributors
 - lifting of turf, patching and plugging by hand
 - forking up by hand
 - top dressing by hand and the use of distributors
- returning the surface to the correct standard for the sport and event.

Use of equipment and chemicals must meet the requirements of the law and codes of practice.

ELEMENTS	PERFORMANCE CRITERIA
	<i>To be competent you must achieve the following:</i>
1. Present and maintain sports surfaces and facilities for play	1.1 Select the correct tools and equipment to prepare the surface. 1.2 Use tools and equipment safely and efficiently. 1.3 Clear surfaces of unwanted debris and dispose of it correctly. 1.4 Prepare the playing surface so that it meets the requirements of the sport and the standard for the event. 1.5 Maintain the quality and appearance of surfaces. 1.6 Make markings which are clear and appropriate to the event. 1.7 Set up the sports equipment required by the rules of the sport and the standard of the event. 1.8 Keep waste to a minimum. 1.9 Clean tools and equipment and store them securely.
2. Renovate and repair sports turf and surfaces	2.1 Inspect surfaces as requested. 2.2 Identify and assess surfaces in need of renovation and repair. 2.3 Select renovation and repair methods that are appropriate to the damage and the type of sports surface. 2.4 Select tools and equipment that are suitable for the repair job. 2.5 Use tools and equipment safely and efficiently. 2.6 Prepare the surface and use the selected renovation and repair methods safely and correctly.

- 2.7 Reinststate the surface so that it meets the requirements of the sport and the **standard** of the event.
- 2.8 Clean and store equipment securely and correctly.

RANGE STATEMENT

You must cover the items below:

Element 1: Present and maintain sports surfaces and facilities for play

A. Use all of the following types of tools and equipment:

- (i) hand-held non-powered tools and equipment
- (ii) hand-held powered tools and equipment
- (iii) ride-on equipment

B. Use all of the following methods to **prepare the surface:**

- (i) mowing
- (ii) irrigation
- (iii) scarifying and verticutting
- (iv) rolling
- (v) top dressing
- (vi) brushing or switching
- (vii) aeration
- (viii) edging
- (ix) applying fertiliser
- (x) marking out sports surface
- (xi) setting up sports equipment

- C. Maintain at least **three** of the following aspects of the **standard** for the surface: *(Also applies to element 2)*
- (i) speed
 - (ii) surface response to a ball, animal or player
 - (iii) moisture content
 - (iv) grass cover
 - (v) trueness
- D. In identifying and assessing surfaces in need of **renovation and repair** you should provide the following **three** examples:
- (i) grass burnt through a lack of moisture
 - (ii) grass thinning
 - (iii) compaction

Element 2: Renovate and repair sports turf and surfaces

- A. Use **three** of the following **renovation and repair methods**:
- (i) seeding
 - (ii) hand lifting
 - (iii) sprigging, plugging or sodding
 - (iv) aeration/verticutting
 - (v) forking
 - (vi) top dressing
 - (vii) divotting
 - (viii) weed control

UNDERPINNING KNOWLEDGE AND SKILLS

1. How ground conditions affect maintenance operations.
2. How to select tools and equipment to present the surface for play.
3. How to make safe and efficient use of this equipment.
4. Why it is important to clear surfaces of unwanted debris and dispose of it properly.
5. How to ensure the surface is in a fit condition for maintenance.
6. The importance of ensuring the surface meets the required standard and how to do so.
7. The effects of climate and soil conditions on intensity, type and frequency of operations on turf, on grass growth characteristics and playing surfaces.
8. How to carry out markings appropriate to sports and events.
9. How to set out sports equipment in a way which meets the needs of the sport and the standard of the event.
10. Why it is important to set out equipment correctly and what might happen if you do not.
11. Why it is important to keep unnecessary waste to a minimum.
12. How to clean and store the equipment securely and correctly and why it is important to do so.
13. Why it is important to renovate and repair surfaces to the required standard and the consequences of not doing so.
14. How to identify surfaces in need of renovation and repair.
15. How to select the appropriate renovation and repair method according to degree of damage and the surface itself.
16. The importance of thorough and appropriate preparation prior to renovation and repair and how to do so.
17. How to ensure that the surface meets the requirements of the sport and the standard for the event.
18. How to clean and store the necessary tools and equipment securely and correctly and the importance of doing so.
19. The relevant legislation and codes of practice covering this area of work.

EVIDENCE GUIDE

For assessment purposes:

(1) Critical Aspects of Evidence

Assessment should involve observation of how you present sports turf surfaces so that they meet the requirements of a sport and a particular event. You will also be observed repairing and renovating the surface following play under limited supervision.

In demonstrating competence in presenting, maintaining and repairing sports turf surfaces for play you are required to:

A. Use **two** of the following types of **tools and equipment**:

- (i) Non-powered hand-held tools and equipment
- (ii) Powered hand-held tools and equipment
- (iii) Ride on equipment

B. Use **all** of the following methods to **prepare** the surface where appropriate:

- (i) Mowing
- (ii) Irrigation
- (iii) Scarifying and verticutting
- (iv) Rolling
- (v) Top dressing
- (vi) Brushing or switching
- (vii) Aeration
- (viii) Edging
- (ix) Applying fertiliser
- (x) Marking out sports surface
- (xi) Setting up sports equipment
- (xii) Grassing

C. Maintain at least **three** of the following aspects of the **standard** for the surface:

- (i) Speed
- (ii) Surface response to a ball, animal or player
- (iii) Moisture content
- (iv) Grass cover
- (v) Trueness

D. In identifying and assessing surfaces in need of **renovation and repair** you should provide the following **three** examples:

- (i) Grass burnt through a lack of moisture
- (ii) Grass thinning
- (iii) Compaction

E. Use **three** of the following **renovations and repair methods**:

- (i) Seeding
- (ii) Hand lifting
- (iii) Sprigging, plugging or sodding
- (iv) Aeration/verticutting
- (v) Top dressing
- (vi) Repairing divots and ball marks
- (vii) Weed control

Use of equipment and chemicals must meet the requirements of the law and industry codes of practice.

(2) Methods of Assessment

Observation by your assessor of you:

- Preparing the playing surface so that it meets the requirements of the sport and the standard for the event
- Maintaining the quality and appearance of surfaces
- Setting up the sports equipment required by the rules of the sport and the standard of the event
- Inspecting the turf as requested.
- Identifying and assessing surfaces in need of renovation and repair
- Preparing the surface and using the selected renovation and repair methods safely and correctly
- Reinstating the surface so that it meets the requirements of the sport and the standard of the event
- Cleaning and storing equipment securely and correctly

Answers to written or oral questions from your assessor.

(3) Context of Assessment

Evidence from simulations is **not** acceptable for this unit.