

## U18002 Present, maintain and repair artificial playing surfaces for play

### Unit Descriptor:

This unit is about making sure that artificial/synthetic playing surfaces are safe and meet the required standards for the sport. 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:

- inspecting surfaces
- clearing and preparing surfaces for maintenance
- carrying out routine maintenance: brushing, luting, top-dressing, weed control, moss/algae control
- using hand tools and powered equipment
- carrying out repairs and renovation, including: irrigation, marking out and the removal of contaminants
- safe disposal of waste materials
- routine cleaning, maintenance and storage of tools and equipment

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

### ELEMENTS

### PERFORMANCE CRITERIA

*To be competent you must achieve the following:*

- |  |   |
|--|---|
| 1. Maintain the condition of artificial playing surfaces | 1.1 Choose <b>tools and equipment</b> that are appropriate to the <b>surface</b> and the type of <b>maintenance</b> you will be carrying out. |
|  | 1.2 Clear and prepare the surface for <b>maintenance</b> .  |
|  | 1.3 Carry out <b>maintenance</b> so that the quality and appearance of the <b>surface</b> is suitable for the sport.                          |
|  | 1.4 Use your <b>tools and equipment</b> correctly and safely.   |

- 1.5 Keep unnecessary waste to a minimum.
- 1.6 Clean and safely store your **tools and equipment** so that they are ready for next use.
- 2. Repair and renovate artificial playing surfaces
  - 2.1 Carry out inspections as requested.
  - 2.2 Identify any conditions that affect the quality of the **surface**.
  - 2.3 Report these conditions to the relevant person.
  - 2.4 Use a **method** to deal with these conditions that are appropriate to the condition and the surface.
  - 2.5 Carry out **repairs and renovation** promptly and effectively.
  - 2.6 Dispose of waste safely whilst keeping environmental pollution to a minimum.
  - 2.7 Clean and safely store your tools and equipment so that they are ready for next use.

**RANGE STATEMENT**

*You must cover the items below:*

**Element 1: Maintain the condition of artificial playing surfaces****A. Maintain one of the following types of surfaces:**

- (i) hard porous water bound
- (ii) filled synthetic
- (iii) non-filled synthetic

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

- (i) hand
- (ii) powered
- (iii) mounted

**C. Carry out four of the following types of maintenance:**

- (i) brushing
- (ii) luting
- (iii) top dressing
- (iv) weed control
- (v) moss/algae control

**Element 2: Repair and renovate artificial playing surfaces****A. Repair and renovate one of the following types of surfaces:**

- (i) hard porous water bound
- (ii) filled synthetic
- (iii) non-filled synthetic

**B. Use one of the following types of methods:**

- (i) cultural
- (ii) chemical

C. Carry out **four** of the following types of **maintenance**:

- (i) marking out
- (ii) brushing
- (iii) renovation
- (iv) irrigation
- (v) debris removal
- (vi) contamination removal
- (vii) weed and moss control

### **UNDERPINNING KNOWLEDGE AND SKILLS**

1. The reasons for the different types of maintenance listed: brushing, luting, top-dressing, weed control, moss/algae control.
2. The types of tools and equipment that you need for different maintenance operations.
3. How to use these tools and equipment safely and effectively.
4. How surface conditions affect maintenance operations.
5. Why it is important to prepare the surface before carrying out maintenance.
6. The standard of appearance and quality that has to be achieved for the sport.
7. Routine cleaning, maintenance and storage procedures for the types of equipment you use.
8. Health and safety legislation and other requirements that are relevant to the maintenance operations.
9. Sources of information relating to the materials and methods used to maintain surfaces, equipment and perimeters.
10. How to identify, select and obtain the materials, tools and equipment you need.
11. The methods and techniques you should use to maintain surfaces, equipment and perimeters.
12. The standards of maintenance you should achieve.
13. The dangers of damage to the surrounding area and other features and how to protect against these.
14. Why it is important to keep waste to a minimum.
15. Why it is important to dispose of debris correctly and how to do so.
16. Relevant standards, legal and regulatory requirements.

**EVIDENCE GUIDE**

*For assessment purposes:*

**(1) Critical Aspects of Evidence**

Assessment should involve observation of how you make sure that artificial/synthetic playing surfaces are safe and that they meet the required standards for the sport. You will be observed presenting, maintaining and repairing artificial playing surfaces under limited supervision.

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

A. Maintain **one** of the following types of **surfaces**:

- (i) Hard porous water bound
- (ii) Filled synthetic
- (iii) Non-filled synthetic

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

- (i) Hand-held non-powered
- (ii) Hand-held powered
- (iii) Mounted

C. Carry out **three** of the following types of **maintenance**:

- (i) Brushing
- (ii) Luting
- (iii) Top dressing
- (iv) Weed control
- (v) Moss/algae control

D. Repair and renovate **one** of the following types of **surfaces**:

- (i) Hard porous water bound
- (ii) Filled synthetic
- (iii) Non-filled synthetic

E. Use **one** of the following types of **methods** to deal with the conditions that affect the surface:

- (i) Cultural
- (ii) Chemical

F. Carry out **four** of the following types of **repair and renovation**:

- (i) Marking out
- (ii) Brushing
- (iii) Renovation
- (iv) Irrigation
- (v) Debris removal
- (vi) Contamination removal
- (vii) Weed and moss control

**(2) Methods of Assessment**

Observation by your assessor of you:

- Clearing and preparing the surface for maintenance
- Identifying any conditions that affect the quality of the surface
- Carrying out repairs and renovations promptly and effectively
- Carrying out maintenance so that the quality and appearance of the surface is suitable for the sport
- Disposing of waste whilst keeping environmental pollution to a minimum
- Cleaning and safely storing your tools and equipment so that they are ready for next use.

Answers to written or oral questions from your assessor.

**(3) Context of Assessment**

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