



Australian Government

AHCTRF306 Prepare sports turf surfaces for play

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 4.0.

Application

This unit of competency describes the skills and knowledge required to plan, prepare the turf and mark out the sports surfaces ready for play, complying with the rules and regulations of the sport.

The unit applies to individuals who prepare turf surfaces for play under general direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Turf (TRF)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare the site for sports surface preparation activities	1.1 Establish sports surface set-up plan and work activity according to sport rules and specifications 1.2 Identify and manage permanent and temporary obstacles according to sport set-up procedures 1.3 Identify workplace health, safety and environmental hazards, assess risks and implement controls 1.4 Identify and select equipment and resources for setting up the sport

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	surface according to the sport's rules and regulations 1.5 Check and adjust profile moisture condition according to sport rules, regulations and workplace procedures
2. Select and prepare equipment and machinery required for sports surface preparation	2.1 Select and check tools, equipment and machinery and rectify, report and tag faults 2.2 Calibrate equipment and adjust according to sport set-up plan 2.3 Conduct pre-operational checks of tools, equipment and machinery 2.4 Implement site safety requirements and monitor and direct sport users 2.5 Select, check, use and maintain personal protective equipment
3. Use machinery and equipment to prepare sports turf playing surface	3.1 Assess turf preparation area for moveable obstacles, and relocate during preparation activities 3.2 Operate machinery and equipment to prepare sports surface in a consistent and uniform manner 3.3 Collect and dispose of waste and return obstacles according to workplace and environmental procedures
4. Finalise preparation of playing surface	4.1 Select and check sports surface marking tools, equipment and machinery, and rectify or report faults 4.2 Use measuring equipment, geometry and calculations to position lines, markers and match play equipment according to rules and regulations of intended sport 4.3 Conduct marking-out activities according to the timeframes in the sports surface set-up plan 4.4 Use measurement equipment to test playing surface performance 4.5 Check sports turf play area for potential hazards to players, and report or rectify 4.6 Clean and store equipment and dispose of waste materials according to workplace and environmental procedures 4.7 Record sports preparation activities according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Interpret symbols and text on plans
Numeracy	Calculate distance, area, volume, percentage, time and ratio

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCTRF306 Prepare sports turf surfaces for play	Not applicable	New unit	No equivalent unit

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCTRF306 Prepare sports turf surfaces for play

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has prepared sports surfaces for play for at least three of the following:

- a single hole for a golf course with tee and surrounds, rough, fairway and green, and including moving the hole and location of tee markers
- a bowling green, including the assessment of the pace of green
- a cricket ground, including preparation of wicket surface, line marking of wicket and outfield and stump installation
- a ball sport surface selected from Australian Rules football, soccer or rugby, including outfield line marking
- a horse race track surface preparation, including line marking, and rail positioning installation
- a sports surface selected from lawn tennis, lacrosse, hockey, polo or croquet.

There must also be evidence that the individual has:

- determined the condition required for playing surface and planned the work requirements according to sport rules and regulations
- identified safety hazards, assessed risks and implemented controls to ensure personal and user safety when performing work
- selected, checked, adjusted and operated equipment and machinery on the sport site safely
- assessed sports surface condition and confirmed preparation requirements
- prepared a consistent and uniform sports playing surface
- collected and disposed of waste
- selected, checked and used marking-out equipment, materials and procedures to accurately lay out sports surfaces
- checked playing surface performance and potential hazards to players, and reported or rectified
- cleaned and stored tools, equipment and machinery
- prepared a report on sports surface preparation activities.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- principles and practices of turf preparation for play, including:
 - golf courses, lawn bowls, cricket, race courses, sports fields and tennis
 - effect of adverse climatic conditions on turf preparation
 - use of turf in high performance sport environments
 - purpose of turf surface preparation in maintaining turf presentation
 - cultural requirements of warm and cool turf grass species
- turf surface performance measurement equipment and benchmarks for play, including:
 - stimpmeter
 - bowling green speed
 - clegg hammer
 - traction meter
 - moisture sensor
 - bounce and ball roll/smoothness
- artificial surfaces and their preparation, including:
 - cleaning
 - grooming
 - watering
 - decompacting
 - sterilisation
- biological factors of turf grass species affected by turf preparation activities, including:
 - moving golf holes
 - reasons for moving markers
 - height of cut for grass species
 - effect of rollers on compaction and turf growth
 - effect of mower cutting type
- assessment of turf grass condition prior to setting up, including:
 - colour of sward
 - length of sward and cutting heights
 - set-up equipment requirements and selection criteria
 - moisture content
- conducting mowing operations, including:
 - ensuring uniform cut
 - maintaining a consistent pattern
 - implications of repetitive activity on equipment wear, tear and grain, and the need to vary direction of cut

- marking out sports surfaces for play, including:
 - tools and equipment for marking out, and their preparation and use, including pegs, measuring equipment and string lines
 - line marking methods for sports surfaces
 - basic calculations and geometry relevant to layout and line marking
 - rules and regulations for marking and layout of sports surfaces
 - common terms for sport markers and line marking
- markers and other sports surface obstacles for match play requirements, including:
 - holes
 - tee markers
 - out of bounds markers
- water and its effect on sports play and preparation activities, including:
 - soil water requirements
 - turf surface water condition, dew and rain
 - water and dew removal techniques
 - turf covers, their application and consequences of use
- work health and safety hazards, risks and controls when preparing turf surfaces for play, including:
 - rapid risk assessment
 - safe transport of equipment to site
 - legal requirements when transporting equipment on public roads
- maintaining a safe work site, including:
 - safety barriers
 - signage and notifications
 - managing pedestrian traffic flow
- obstacles affecting sports surface set-up, and methods for managing them during preparation activities, including:
 - permanent obstacles
 - temporary obstacles
 - identifying and rectifying hazards to players and playing conditions
- calibration, adjustment and safe use of equipment commonly used for preparation of sports surfaces, including:
 - mowers and height adjustments
 - sports surface edgers
 - rollers
 - water soppers and blowers
 - line marking equipment
- pre-operational and post-operational machinery and equipment checks, including:
 - electrical cords
 - checking and testing procedures

- identifying, tagging and reporting faulty equipment
- fault reporting procedures
- waste materials disposal procedures and environmental considerations
- record keeping and report preparation procedures and their purpose.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a sports surface facility or an environment that accurately represents workplace conditions in which to demonstrate the preparation and layout of at least three sports stipulated in the performance evidence
- resources, equipment and materials:
 - turf set-up equipment, including cylinder and rotary ride-on mowers, edger, roller
 - marking-out materials and equipment
 - measuring and layout equipment, including tape measures and string lines
 - turf surface performance measuring equipment
- specifications:
 - turf preparation and set-up plan for at least three specific sports play surfaces stipulated in the performance evidence
 - workplace procedures and instructions for turf preparation for play
- timeframe:
 - sports play schedule.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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