

Modification history

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

AHCTRF3XX	Prepare sports turf surfaces for play
Application	<p>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.</p> <p>The unit applies to individuals who work under broad 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.</p> <p>No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Turf (TRF)

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 setup plan and work activity according to sport rules and specifications and workplace procedures 1.2 Identify permanent and temporary obstacles and manage according to sport setup procedures 1.3 Identify work health and safety, and environmental hazards and assess risks and implement controls according to workplace procedures 1.4 Identify and select equipment and resources for setting up the sport surface according to rules, regulations, competition and workplace procedures 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 according to workplace procedures 2.2 Calibrate equipment and adjust according to sport set up plan and manufacturer's instructions 2.3 Conduct pre-operational checks of tools, equipment and machinery according to manufacturer instructions and workplace procedures 2.4 Implement site safety requirements and monitor and direct sport users according to workplace procedures 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 according to workplace procedures 3.2 Operate machinery and equipment to prepare sports surface in a consistent and uniform manner according to turf preparation plan, manufacturer instructions and workplace procedures 3.3 Collect and dispose of waste and return obstacles according to workplace and environmental procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Finalise preparation of playing surface	4.1 Select and check sports surface marking tools, equipment and machinery and rectify or report faults according to workplace procedures 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 within the timeframe of the scheduled sports event 4.4 Use measurement equipment to test playing surface performance according to sports play regulations 4.5 Check sports turf play area for potential hazards to players and report or rectify according to workplace procedures 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	
<i>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.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> Interpret symbols and text on plans
Numeracy	<ul style="list-style-type: none"> Use geometry, measurements and calculations to mark out sports turf playing surfaces including; distance, area, volume, percentage, time, and ratio

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCTRFXXX 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.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72

TITLE	Assessment requirements for AHCTRFXXX Prepare sports turf surfaces for play
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has prepared sports surfaces for play on at least three of the following types of sports surfaces:</p> <ul style="list-style-type: none"> • a single hole for golf course including tee and surrounds, rough, fairways and green including moving the hole and location of tee markers • bowling green including the assessment of pace of green • cricket including preparation of wicket surface, line marking of wicket and outfield and stump installation • ball sport (football, soccer or rugby) including outfield line marking • race track surface preparation, line marking, and barrier installation • one of any other sports surface selected from: <ul style="list-style-type: none"> • tennis • lacrosse • hockey • polo • croquet. <p>There must also be evidence that the individual has:</p> <ul style="list-style-type: none"> • determined the condition of the 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 in accordance with preparation plan, workplace and equipment operating procedures • assessed sports surface condition and confirmed preparation requirements with sport rules and regulations • prepared a consistent and uniform sports playing surface according to the rules and regulations of the game and workplace procedures • collected and disposed of waste according to workplace and environmental procedures • selected, checked and used marking out equipment, materials and procedures to accurately layout sports surface play surfaces according to rules and regulations of the sport and workplace procedures • checked playing surface performance and potential hazards to players and reported or rectified according to workplace procedures • cleaned and stored tools, equipment and machinery according to workplace and environmental procedures • prepared a report on sports surface preparation activities according to workplace procedures. 	
Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • principles and practices of turf preparation for play including: <ul style="list-style-type: none"> • golf courses, lawn bowls, cricket, race courses, sports fields, 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: <ul style="list-style-type: none"> • stimp metre • bowling green speed • clegg hammer • bounce and ball roll/smoothness • artificial surfaces and their preparation <ul style="list-style-type: none"> • cleaning 	

Knowledge Evidence
<ul style="list-style-type: none"> • grooming • watering • sterilisation • biological factors of turf grass species affected by turf preparation activities <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • colour of sward • length of sward and cutting heights • setup equipment requirements and selection criteria • moisture content • conducting mowing operations including: <ul style="list-style-type: none"> • ensuring uniform cut • maintaining a consistent pattern • implications of repetitive activity on equipment wear and tear and grain, and the need to vary direction of cut • marking out sports surfaces for play <ul style="list-style-type: none"> • tools and equipment their preparation and use, for marking out (e.g. pegs, measuring equipment, string lines) • line marking methods for sports surface surfaces • basic calculations and geometry relevant layout and line marking • rules and regulations for marking and layout sports surface surfaces • common terms and terminology for sport markers and line marking • markers and other sports surface obstacles for match play requirements <ul style="list-style-type: none"> • holes • tee markers • out of bounds markers • water and its effect on sports play, preparation activities and how to rectify including: <ul style="list-style-type: none"> • soil water requirements • turf surface water condition, dew and rain • effect on play condition • 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 <ul style="list-style-type: none"> • rapid risk assessment • safe transport of equipment to site • legal requirements when transporting equipment on public roads • maintaining a safe work site including: <ul style="list-style-type: none"> • safety barriers • signage and notifications • managing pedestrian user traffic flow • obstacles affecting sports surface setup and methods of managing them during preparation activities including: <ul style="list-style-type: none"> • permanent obstacles • temporary obstacles • identifying and rectifying hazards to players and playing conditions • equipment commonly used for preparation of sports surface, their calibration, adjustment and safe use: <ul style="list-style-type: none"> • mowers and height adjustments • sports surface edger's • rollers • water soppers and blowers • line marking equipment

Knowledge Evidence	
<ul style="list-style-type: none"> pre-and post-operational machinery and equipment checks prior to use including: <ul style="list-style-type: none"> electrical cords checking and testing procedures identifying, tagging and reporting faulty equipment pre-start checks post work checks fault reporting procedures waste materials disposal procedures and environmental considerations record keeping and report preparation procedures and their purpose. 	
Assessment Conditions	
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> physical conditions: <ul style="list-style-type: none"> access to a sports surface facility or an environment that accurately represents workplace conditions in which to demonstrate the preparation and layout at least 3 sports as stipulated in the performance evidence resources, equipment and materials: <ul style="list-style-type: none"> turf setup equipment including, cylinder and rotary ride on mowers, edger, roller and marking out materials and equipment measuring and layout equipment including, tape measures and string lines turf surface performance measuring equipment specifications: <ul style="list-style-type: none"> turf preparation and setup plan for at least 3 specific sports play surfaces stipulated in the performance evidence workplace procedures and instructions for turf preparation for play timeframe: <ul style="list-style-type: none"> sports play schedule. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	<p>Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72</p>