

Modification history

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 4.0.
Release 1	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 1.0.

AHCTRF305	Renovate sports turf
Application	<p>This unit of competency describes the skills and knowledge required to implement renovation or remediation of a sports turf area for minor projects and seasonal renovations in the turf industry.</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. Prepare to renovate turf	1.1 Assess the turf renovation site and determine extent of works according to renovation program 1.2 Identify turf grass species, materials and resources and calculate quantities required for renovation program 1.3 Collect soil samples and conduct or arrange tests to establish physical and chemical condition of the soil according to workplace procedures and industry standards 1.4 Identify, select and check hand tools, equipment and materials required for renovation work according to workplace procedures 1.5 Identify work health, safety and environmental hazards, assess risks and implement controls according to workplace health and safety procedures 1.6 Prepare a schedule of works in a sequential, timely and effective manner according to site assessment and soil conditions
2. Prepare renovation equipment	2.1 Select, check, use and maintain safety and personal protective equipment 2.2 Carry out pre-operational and safety checks on tools, equipment and machinery and rectify, report or tag faults according to workplace procedures and manufacturer instructions 2.3 Calibrate and adjust tools, equipment and machinery for turf renovation according to manufacturer instructions and renovation program
3. Implement sports turf renovation	3.1 Operate turf renovation tools, equipment and machinery safely and effectively to renovate turf surface according to renovation program and workplace procedures 3.2 Assess and review renovation activities against scheduled works and undertake remedial action where out of specification 3.3 Maintain a clean and safe work area throughout and on completion of work

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AHCTRF305 Renovate sports turf

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. Complete renovation activities	4.1 Collect and dispose of waste material according to workplace and environmental procedures 4.2 Clean, maintain and store tools, equipment and machinery according to manufacturer instructions and workplace procedures 4.3 Record and report work outcomes 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 Interpret soil test procedures and test results for establishing turf grass
Writing	<ul style="list-style-type: none"> Complete workplace documentation using industry terminology and required format
Numeracy	<ul style="list-style-type: none"> Estimates and calculates distance, area, volumes, percentage, time, temperature and ratio Applies numerical information to determine application rates

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCTRF305 Renovate sports turf	AHCTRF305 Renovate sports turf	Changes to Performance Criteria for clarity. Updated Performance Evidence and Knowledge Evidence	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
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TITLE	Assessment requirements for AHCTRF305 Renovate sports turf
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 on at least one occasion renovated a sports turf, including:</p> <ul style="list-style-type: none"> assessed the site and renovation program to determine the extent of works and required renovation activities identified turf grass, materials and resources and calculated quantities required collected and tested soil samples and established the soil condition for renovation site prepared a schedule of works for renovation activities identified, hazards and risks and implemented control measure for personal and site specific safety according to workplace procedures identified selected and prepared materials, equipment, machinery and turf propagation materials ready for renovation works according to restoration schedule and workplace procedures performed turf renovation activities safely using equipment, machinery and materials according to renovation schedule and workplace procedures including: <ul style="list-style-type: none"> coring or spiking top dressing scarifying or grooming shaving or turf cutting or plugging fertilising or adding amendments cleaned site and collected waste from renovation works and disposed of according to workplace safety and environmental procedures cleaned, maintained and stored turf renovation machinery and equipment assessed renovation activities against schedule of works and implemented remedial action where out of specification recorded and reported turf renovation activities, faults and issues 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 renovation including: <ul style="list-style-type: none"> turf renovation programs and their purpose for maintaining playable surfaces developing a schedule of works for sports turf renovation calculations required to determine the quantities required for the renovation program including: <ul style="list-style-type: none"> amendments fertilizer seed soil/sand/media techniques for conducting field tests for soils including <ul style="list-style-type: none"> pH electrical conductivity (EC) infiltration rate organic matter firmness and compaction of the surface traction surface smoothness planting, care and renovation scheduling requirements of grass species and cultivars <ul style="list-style-type: none"> specialist turf renovation practices to achieve high performance turf national and international standards for turf surface appearance and quality turf sward height structure of a sports turf soil profile including: <ul style="list-style-type: none"> soils and soil preparation for renovation soil aeration and compaction including, core, solid tine, water injection 	

Knowledge Evidence

- impact of soil compaction and thatch on irrigation and infiltration rate
- levelling turf surfaces
- turf grass species and effect on mat, thatch and dethatching techniques
 - turf grass improvements using topdressing, dusting, shaving, scarifying and grooming
 - effect of adverse weather conditions on renovation activities
- effective and safe use of tools, machinery and equipment commonly used for sports turf renovation programs including:
 - scarifier
 - sod cutter
 - corer
 - slicer
 - shaver
 - top-dresser
 - drag-mat
 - fertiliser spreader
 - transporter
 - loader, bobcat or similar
 - hand tools, tynes, shovels, spades, level lawns, wheelbarrows
 - influences on the selection of tools, machinery and safety equipment
 - common pre and post operational checks of equipment
 - adjustments and settings for renovation equipment
- assessment of safety hazards and risks when renovating turf areas including responsibilities of working near public
 - potential hazards and risks associated with turf renovation work sites
 - barriers and exclusions zones
 - signage
 - personal protection and equipment
 - manual handling techniques for lifting or moving heavy loads and materials
- chemical amendments for renovations including:
 - fertilisers
 - ameliorants
 - growth regulators
- turf repairs and regeneration procedures including:
 - over sowing
 - plugging
 - sprigging
 - rolled turf/turf replacement
 - divot replacement
- waste materials handling and disposal including environmental considerations
- record keeping and reporting procedures and requirements.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - access to a sports turf facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - turf renovation machinery and equipment
 - turf renovation hand tools including
 - fertiliser, ameliorants, top dressing sand/materials
 - turf propagation materials (seed, sprigs and/or rolled turf)
- specifications:
 - turf renovation program
 - workplace procedures and instructions related to turf renovation

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

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