



Australian Government

AHCTRF308 Establish turf

Release: 1

AHCTRF308 Establish turf

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 establish turf by sowing, turf laying, sprigging and chaffing or stolonisation in sporting, public recreational open space, commercial and residential sites.

The unit applies to individuals who establish turf 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. Develop a turf establishment plan	1.1 Collect representative soil samples of turf establishment area for testing 1.2 Package and label soil samples for laboratory testing according to laboratory requirements 1.3 Perform field tests of soil and record results 1.4 Identify and select turf grass species and propagation method

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	according to workplace or client planned outcomes 1.5 Assess the site for physical and cultural impediments to turf establishment and record results 1.6 Interpret results and prepare a turf establishment plan
2. Prepare to establish a new turf area	2.1 Select materials, tools, equipment and machinery for planting according to turf establishment plan 2.2 Carry out pre-operational and safety checks on tools, equipment and machinery 2.3 Identify workplace health, safety and environmental hazards, assess the risks and implement controls 2.4 Select, check, use and maintain personal protective equipment 2.5 Implement weed control strategy in preparation for turf establishment activities
3. Prepare soil and plant turf	3.1 Prepare planting site, incorporate soil additives and ensure soil moisture is within specification 3.2 Distribute turf propagation material on turf area according to turf establishment plan 3.3 Implement irrigation requirements to newly propagated turf 3.4 Collect and dispose of waste according to workplace and environmental procedures 3.5 Clean, store and maintain tools, equipment and machinery
4. Maintain turf establishment	4.1 Protect the site from disturbance and damage according to workplace procedures 4.2 Assess soil moisture condition and rectify according to workplace irrigation practices 4.3 Implement turf mowing practices during establishment according to workplace procedures and turf establishment plan 4.4 Apply top dressing to level the turf area according to turf establishment plan 4.5 Apply nutrients and amendments according to turf establishment plan

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
5. Report and repair areas of damaged turf	5.1 Monitor turf condition for quality, and repair according to turf establishment plan 5.2 Record and report work outcomes 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 - Interpret soil test procedures and test results for establishing turf grass
Writing	Complete workplace documentation using industry terminology and required format
Numeracy	Estimate and calculate distance, area, volume, percentage and ratio

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCTRF308 Establish turf	AHCTRF302 Establish turf	Performance criteria clarified Foundation skills added Performance evidence, knowledge evidence and assessment conditions expanded	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 AHCTRF308 Establish turf

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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 established a turf surface using:

- seed (hand seed sowing, mechanical seed sowing, hydro-seeding or drilling)
- sod (turf rolls or sheets)
- and one of the following methods:
 - sprigs (hand sprigging, hydro sprigging, mechanical sprigging)
 - plugs
 - chaffing or stolonisation.

There must also be evidence that the individual has:

- collected and prepared soil samples for testing and interpreted results
- identified impediments to turf establishment and recorded results
- determined turf establishment species, methods and requirements
- prepared an establishment plan to meet client or workplace requirements
- identified hazards and risks and implemented control measures for personal and site-specific safety
- prepared materials, equipment, machinery and turf propagation materials ready for implementation
- performed turf establishment activities safely using equipment, machinery and materials
- collected waste and disposed of it safely
- selected, safely used, cleaned, maintained and stored turf establishment machinery and equipment
- maintained turf establishment records and reported outcomes.

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 for establishing, turf, including:

- preparing a turf establishment plan
- turf grass identification, propagation and growth characteristics
- turf establishment methods, including, seed, sod, sprigs, plugs, chaffing and stolonisation
- handling and assessing turf propagation materials for defects
- distributing, laying and planting turf propagation materials to establish even coverage
- fertiliser use and application
- soils and turf nutrition
- overseeding warm season grasses and allelopathy
- common weeds, pests and diseases, and control measures for establishing new turf, including field tests to identify problems
- physical and chemical properties of soils and effect on establishing new turf, including:
 - compaction
 - pH
 - salinity and nutrition
 - texture and soil type
 - soil sampling techniques and preparation for laboratory testing
 - field testing techniques for soils
- irrigation requirements for establishment of new and establishing turf
- soil types and their preparation for establishing new turf, including:
 - basic checks to assess soil condition, including soil moisture, tilth, compactness, depth and organic matter
 - soil preparation additives, including fertilisers, ameliorants, moisture control materials, pesticides and herbicides
 - methods for incorporation of soil additives
 - soil preparation requirements for different turf propagation techniques
- calculations to determine application rates of amendments, fertiliser and planting material, including distance, area, volume, percentage and ratio
- tools, equipment and machinery used in preparing new turf surfaces, including:
 - types of equipment and their effective and safe operation
 - pre-start checks
 - care and storage of tools, equipment and machinery
- turf propagation treatments for establishment, including:
 - protection for seed, sod, sprigs and plugs during first weeks of establishment
 - basic irrigation practices and recognising turf establishment needs and problems
 - rolling and mowing practices for new turf
 - monitoring and control of disorders
 - top dressing purpose and procedures
 - nutrients and amendments used for establishing turf
- workplace health and safety hazards, risks and control measures when constructing new turf, including:

- site safety
- personal safety
- safe use and operation of tools, equipment and machinery
- record keeping and reporting procedures relevant to turf establishment.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a sports turf facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - hand tools, stringlines, buckets, shovels, rakes, spades, level lawns and wheelbarrows
 - equipment, sod cutter, scarifier, transporter, roller, fertiliser and chemical application equipment
 - dry sand, propagation material and turf plugger
 - personal protection equipment
 - soil amendments and treatment materials
 - soil testing equipment
 - the two types of turf propagation materials and at least one of the propagation methods specified in the performance evidence
- specifications:
 - turf grass species specifications and requirements
 - workplace procedures and instructions for establishing turf.

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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