



**Australian Government**

# **Assessment Requirements for AHCTRF308 Establish turf**

**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. |

## 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.

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>