



**Australian Government**

# **AHCTRF404 Plan and implement sports turf renovation**

**Release: 1**

# AHCTRF404 Plan and implement sports turf renovation

## 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 and implement sports turf renovation activities, which involves the preparation of procedures, scheduling and coordination of staff, and monitoring and reviewing financial and renovation performance.

The unit applies to greenkeepers and turf managers that use specialist skills to plan, coordinate and supervise the work of others within known parameters. They use discretion and judgment in the selection, allocation and use of available resources.

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. Prepare the turf renovation program           | 1.1 Assess existing turf site plans and documentation to establish purpose of turf surface to be renovated<br>1.2 Determine the size of sports turf surface in need of renovation<br>1.3 Conduct field tests to establish renovation site conditions according to workplace and industry standards<br>1.4 Assess size of area and test results against purpose, and identify |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                  | <p>scope of renovations required</p> <p>1.5 Identify and select materials and resources required for the identified renovation requirements</p> <p>1.6 Identify workplace health, safety and environmental hazards, assess risks and identify controls</p> <p>1.7 Develop a renovation program containing site assessment report, results of field measurements and tests, risk controls, and material and resource requirements</p> <p>1.8 Develop and document a schedule of works and specifications for renovation program</p> |
| 2. Prepare renovation equipment                  | <p>2.1 Review machinery maintenance logs to verify operational status for renovation activities</p> <p>2.2 Conduct pre-operational and safety checks of tools, equipment and machinery</p>                                                                                                                                                                                                                                                                                                                                         |
| 3. Implement the renovation program              | <p>3.1 Select work team and contractors, and coordinate work in a sequential, timely and effective manner</p> <p>3.2 Organise and direct work according to the renovation schedule of works</p> <p>3.3 Monitor renovation tasks against performance targets, and undertake remedial action where non-compliant</p> <p>3.4 Monitor renovation work activities to maintain a clean and safe work environment</p>                                                                                                                     |
| 4. Complete renovation activities                | <p>4.1 Reconcile completed works against renovation plan objectives</p> <p>4.2 Inspect equipment and machinery for operational status, and implement repairs</p> <p>4.3 Record expenses and review against budget according to workplace financial procedures</p> <p>4.4 Record and report turf renovation outcomes against planned objectives according to workplace requirements</p>                                                                                                                                             |

## 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                                                                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Writing            | <ul style="list-style-type: none"><li>Develop plans, procedures and schedules for work team and key stakeholders using clear language in order to convey explicit information</li></ul> |
| Oral communication | <ul style="list-style-type: none"><li>Present complex information appropriate to the audience using clear and convincing language, tone and pace</li></ul>                              |
| Numeracy           | <ul style="list-style-type: none"><li>Perform calculations when implementing and interpreting tests and results</li></ul>                                                               |

## Unit Mapping Information

| Code and title current version                         | Code and title previous version                     | Comments                                                                                                                                | Equivalence status |
|--------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| AHCTRF404<br>Plan and implement sports turf renovation | AHCTRF402 Plan and implement sports turf renovation | Performance criteria clarified<br>Foundation skill added<br>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 AHCTRF404 Plan and implement sports turf renovation

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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, on at least one occasion, prepared and implemented a sports turf renovation plan, including:

- assessed site plans and documentation to establish sports turf purpose
- determined size of sports turf area in need of renovation
- conducted field tests to establish the degree of degradation of sports turf surface
- assessed results and established the scope of renovation works
- identified site health, safety and environmental hazards, assessed risks and established controls for the renovation works
- developed and documented a plan for a sports turf renovation program and prepared a schedule of works and specifications for implementation
- reviewed status of machinery and equipment and conducted pre-operational checks in preparation for renovation works
- selected and coordinated work team and contractors to implement the schedule of works for renovation of sports turf surfaces
- monitored restoration activity, safety and environmental impacts of restoration work against performance targets, and implemented remedial actions where non-compliant
- reconciled completed works against renovation plan
- checked equipment for serviceability, and initiated repairs
- recorded costs of restoration and reviewed against budget
- maintained records and produced reports on renovation 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:

- enterprise, national and international industry standards for turf surface appearance, performance and quality

- environmental implications of renovation activities, turf and soil treatments, and waste disposal procedures
- safe work practices and procedures applicable to renovation activities, including:
  - safe materials handling
  - equipment and operation
  - public and turf area users
- basic surveying skills to measure the size of renovation site
- methods and purpose of field tests, including:
  - infiltration rate
  - organic fines
  - hardness
  - traction
  - surface smoothness
  - turf sward height
- identification and cultural requirements of turf grass species and cultivars, including:
  - planting and propagating
  - care and maintenance
  - renovation scheduling requirements
- specialist turf renovation practices to achieve high performance turf, including:
  - dethatching
  - top dressing
  - aerating
  - over sowing
  - fertilising and soil conditioning
  - drainage and water holding
- determining resource and material requirements for turf grass renovation program, including:
  - financial and budgetary constraints
  - consumables, including fertilisers, ameliorants and other chemicals
  - labour and contractor requirements and scheduling
  - equipment and machinery
  - turf grass propagation material
  - growing soils and media
  - expectations and specification of work quality outcomes
- tools, equipment and machinery commonly used for sports turf renovation programs, including:
  - effective and safe use of tools and machinery
  - influences on the selection of tools, machinery and safety equipment
  - common pre-operational and post-operational checks of equipment
  - adjustments and settings for renovation equipment

- assessment of safety hazards and risks when renovating turf areas, including:
  - public safety
  - barriers and exclusions zones
  - signage
  - personal protection and equipment
  - manual handling techniques for lifting or moving heavy loads and materials
- coordinating a work team and working with contractors, including:
  - communicating with team members
  - organising and directing labour
  - dealing with performance issues
- preparation of renovation plans, recording and reporting renovation activities.

## 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 on which to prepare and implement a turf renovation plan
- resources, equipment and materials:
  - turf renovation tools, machinery and equipment
  - fertiliser, ameliorants, top dressing materials
  - turf planting and propagation materials
  - measuring and layout equipment, including levels, tape measures, boning rods, laser level, dumpy level
- specifications:
  - workplace procedures and work instructions for turf area maintenance
  - access to workplace, national and international turf grass industry standards
- relationships:
  - work team and contractors.

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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