



Australian Government

AHCTRF506 Manage sports turf renovation programs

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.

Application

This unit of competency describes the skills and knowledge required to assess a sports turf surface and develop programs and procedures to implement renovation activities appropriate to the sport and sporting regulations.

It applies to individuals who are responsible for the management of turf renovation programs, who analyse information and exercise judgement to complete a range of advanced skilled activities and demonstrate deep knowledge in a specific technical area. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex 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. Assess the turf renovation site	1.1 Inspect and assess turf surface condition for renovation site 1.2 Assess soil physical and chemical test results to determine soil condition and determine corrective action 1.3 Assess water quality test results to determine effect on turf growth and development according to industry standards

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Assess sward cover and identify over-sowing requirements and turf grass species/varieties required 1.5 Identify workplace health, safety and environmental hazards, assess risks and specify controls for incorporation into plan
2. Select renovation technique for sports turf site	2.1 Investigate and evaluate renovation techniques and practices using historical and current data 2.2 Review renovation records to inform planned works, practices and timing 2.3 Determine turf renovation technique for current condition of turf and intended outcome of program 2.4 Establish timing of renovation program according to turf species cultural requirements, renovation technique, weather conditions and sport turf usage 2.5 Produce a financial budget for turf renovation activity 2.6 Prepare a turf maintenance program for post-renovation recovery 2.7 Document turf renovation program
3. Organise staff and resources for turf renovation project	3.1 Determine machinery and equipment for renovation program, and check for working condition and settings and adjustments for sports turf renovation 3.2 Calculate and order consumables required 3.3 Liaise with contractors and machinery hire firms and arrange contracts according to program requirements 3.4 Determine and sequence work requirements for the renovation program, and schedule work team and contractors
4. Review and report renovation outcomes	4.1 Update records for soil condition and water quality 4.2 Update financial records with direct and indirect costs, and review against budget 4.3 Record and report renovation practices and outcomes 4.4 Review actual against planned renovation activities and recommend improvements for future renovation work

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	Accurately interpret sporting rules and regulations
Writing	Generate renovation programs using a range of writing styles
Numeracy	Analyse and synthesise mathematical information from a range of tasks and texts to develop schedules and specifications

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCTRF506 Manage sports turf renovation programs	AHCTRF502 Manage sports turf renovation programs	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 AHCTRF506 Manage sports turf renovation programs

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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 prepared a renovation management program for at least three sports turf playing surfaces from the following list:

- a single hole for a golf course with tees and surrounds, rough, fairways and green
- a bowling green
- a cricket ground wicket surface and outfield
- a ball sport surface selected from one of Australian Rules football, soccer or rugby
- a horse race track
- a sport turf surface selected from one of lawn tennis, lacrosse, hockey, polo or croquet.

There must also be evidence that the individual has:

- inspected and assessed turf surface for condition
- assessed soil test results and determined corrective action
- assessed water quality tests and determined effect on turf growth
- assessed grass sward cover and identified species and over-sowing requirements
- reviewed historical records and practices and determined a turf renovation technique for current conditions and desired outcomes
- identified work health, safety and environmental hazards, assessed risks and identified control measures to include in plan
- documented a turf renovation plan and schedule of works
- produced and reviewed a cost budget for the project
- determined suitability and operational status of machinery and equipment and specified settings and adjustments
- identified and liaised with team and contractor for expected works
- prepared a schedule of works
- calculated materials and ordered goods, services and contractors required for the renovation
- prepared a post-renovation turf recovery maintenance program

- updated records and reported outcomes for renovation program
- reviewed program outcomes against plan, and recommended future adjustments.

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:

- comparative health, safety and environmental implications of renovation activities, turf and soil treatments and waste disposal
- enterprise and industry standards for turf surface appearance and quality
- field measurement techniques, including infiltration rate, organic fines, hardness, traction, and surface smoothness
- impact of environment on turf recovery, including:
 - climatic conditions
 - soil temperature
 - moisture
- turf grass species and cultivars, including:
 - planting
 - care
 - renovation scheduling
- requirements of the turf's intended use, including intensity and scheduling
- soil physical and chemical properties for imported and existing soils
- specialist turf renovation principles and practices, including:
 - aeration
 - thatch removal
 - topdressing and dusting
 - over-sowing
 - application of soil ameliorants
 - removal of over-sown species
 - turf nutrition and plant growth regulators
- scheduling, program management and time management tools and Gantt charts
- developing and managing budgets, including:
 - direct costs
 - indirect costs
 - fixed or variable costs
- enterprise, national and international industry standards for sports turf surface appearance, performance and quality
- safe work practices and procedures applicable to renovation planned activities, including:
 - materials handling
 - equipment and operation
 - public and turf user safety

- purpose and methods of field measurement 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
 - propagating
 - care and maintenance
 - renovation scheduling requirements
- specialist turf renovation practices to achieve high performance turf, including:
 - dethatching
 - topdressing
 - aerating
 - de-compaction
 - over-sowing
 - fertilising and soil conditioning
 - adjusting drainage and water holding
- establishing and estimating resource and material requirements for turf grass renovation programs, including:
 - financial and budgetary considerations
 - consumables
 - labour and contractor requirements and scheduling
- tools, machinery and equipment used in turf renovation, including:
 - log books and operation status
 - adjustments and settings of tynes and blades
 - types of equipment and their purpose
 - 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
- managing techniques and working with a work team and contractors, including:
 - communicating with work team
 - 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:
 - skills must be demonstrated in a sports turf facility or an environment that accurately represents workplace conditions with access to at least three sites suitable for sports turf surface renovation stipulated in the performance evidence
- resources, equipment and materials:
 - computer software for documenting plans and preparing schedules
 - reports, results and testing equipment for soil and plant tissue
- specifications:
 - workplace procedures and site plans for sports turf renovation
 - local, national and international standards for sports turf grass conditions
- relationships:
 - work team and contractor.

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

Links

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