



Australian Government

AHCTRF505 Plan the establishment of sports turf playing surfaces

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 establish sports turf playing surfaces, develop a design for the site, its specifications and works procedures, planning processes involved in establishing turf in new constructions and major renovations of existing sports turf surfaces.

The unit applies to individuals 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. Conduct site assessment and develop a performance brief for sports turf playing	1.1 Liaise with client to determine requirements for establishing sports turf playing surface 1.2 Assess site for hydrological, biophysical and chemical characteristics and effect on sports turf establishment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
surface	1.3 Assess and evaluate the current drainage and irrigation conditions and calculate drainage design rate 1.4 Establish a site survey to locate existing features, levels and services according to workplace and client requirements 1.5 Investigate and select turf grass species and cultivars suitable for turf establishment according to client requirements and sport play standards 1.6 Investigate and select turf area construction techniques suitable to client requirements and site characteristics 1.7 Investigate legislative and regulatory implications and solutions for proposed works 1.8 Determine environmental impact of proposed works, and recommend actions to minimise impact according to legislative and regulatory requirements 1.9 Compile results and recommendations, and develop performance brief for client approval
2. Evaluate and select sports turf profile and construction materials	2.1 Investigate and evaluate sports turf profile options consistent with client brief 2.2 Identify and select a reliable source of materials for sports turf profile options 2.3 Conduct tests to determine chemical and physical characteristics of profile materials according to industry standards 2.4 Compare test results against known performance benchmarks 2.5 Identify corrective measures to improve performance of profile materials 2.6 Assess materials against performance brief and select acceptable profile 2.7 Ensure selected sports turf profile structure is consistent with available materials and performance brief
3. Develop concept design for sports turf playing surface	3.1 Develop and design sports turf profile consistent with drainage and irrigation designs, and performance brief 3.2 Document turf establishment concept design and present to client for approval
4. Determine requirements for turf	4.1 Determine turf establishment procedures consistent with the

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
establishment works	concept design, site factors and available resources and equipment 4.2 Review and confirm that concept designs for profile, drainage system and irrigation system meet performance brief and industry standards 4.3 Determine resources and contractor requirements for construction of turf playing surface, planting of turf and turf establishment 4.4 Prepare a list of materials and costs, and confirm availability with suppliers 4.5 Determine achievable timelines and contingencies for preparation and construction phase
5. Prepare and document turf establishment plan and specification	5.1 Compile technical data for design, and reconcile against performance brief and concept plans 5.2 Prepare and ensure final profile design meets client needs, performance brief and industry standards 5.3 Produce scale drawings of designs according to client requirements and industry standards 5.4 Prepare specifications for tenders based on the requirements of turf establishment work 5.5 Develop and document procedures and schedules for establishment of sports turf playing surface according to workplace and industry standards

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 technical documentation from a range of sources to extract information related to turf grass profile plans and designs
Writing	Generate complex texts, demonstrating control over a range of writing styles and purposes to explain concepts, designs and specifications

Skill	Description
Oral communication	Determine client requirements through open-ended questioning, active listening, paraphrasing and summarising
Numeracy	Perform calculations for testing materials, sizing drainage pipes and flow rates, developing root zone profile designs and estimating and costing materials for a turf grass profile project
Get the work done	Use digital technologies for investigative, design and documentation activities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCTRF505 Plan the establishment of sports turf playing surfaces	AHCTRF501 Plan the establishment of sports turf playing surfaces	Elements 2 and 3 added Elements and performance criteria clarified Foundation skill added Performance evidence, knowledge evidence and assessment conditions expanded	No 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>