



Australian Government

Department of Education, Employment and Workplace Relations

AHCTRF401A Develop a sports turf maintenance program

Release: 1

AHCTRF401A Develop a sports turf maintenance program

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers developing a sports turf maintenance program and defines the standard required to: use existing information and records to determine a comprehensive maintenance program; prepare an seasonal/annual program according to the requirements of the enterprise and the grounds maintenance budget; communicate a sports turf maintenance program to staff; document the sports turf maintenance program; monitor the implementation of the maintenance program.
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Application of the Unit

Application of the unit	This unit applies greenkeepers and turf managers who develop and document a sports turf maintenance program.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

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1. Determine additives required by performing soil and plant testing	1.1. Soil and plant tests are determined according to the requirements of the turf plant species and cultivars, climatic conditions, prevailing soil and plant conditions, enterprise guidelines and industry best practice. 1.2. A soil and plant testing program is developed which defines field and off-site testing activities, task responsibilities, involvement of contractors, scheduling, and desired information outcomes. 1.3. Testing tasks are implemented and monitored, liaison procedures with outside testing agencies are supervised and remedial action is undertaken where necessary. 1.4. Data and readings are compiled and presented in a form that can be easily read and interpreted. 1.5. Seasonal issues are determined from published data on the turf plant species and cultivars, historical records, own experience, and enterprise guidelines. 1.6. Nutritional status of the turf plant species and cultivars is determined by analysing collected data and comparing to accepted standards.
2. Identify the requirements of a sports turf maintenance program	2.1. The standards for turf presentation are clearly defined according to client requirements, enterprise guidelines and industry best practice. 2.2. The different maintenance requirements during a range of conditions over the growing cycle of the turf plant are identified according to published data on the species and cultivar, historical records, own experience, and enterprise guidelines. 2.3. Sports turf maintenance procedures are selected to achieve the appropriate plant condition according to the standards for turf presentation. 2.4. Resources, tools, equipment and machinery required for the sports turf maintenance program are identified, costed, and availability confirmed with suppliers, contractors and appropriate personnel. 2.5. The most cost-effective approach to maintaining the sports turf playing surface is determined. 2.6. Occupational Health and Safety (OHS) hazards associated with the implementation of the sports turf maintenance program are identified, risks assessed and controls developed according to enterprise guidelines, costed and documented in the program.

ELEMENT	PERFORMANCE CRITERIA
	2.7. Environmental implications of sports turf maintenance activities are identified and documented in the program.
3. Prepare and document the sports turf maintenance program	3.1. Detailed plan, specifications and quotation are prepared based on the requirements of the program and presented to management for acceptance. 3.2. Scaled site plan is produced which can be readily interpreted and understood by on-site personnel according to enterprise standards. 3.3. Detailed on-site procedures and schedules required for the sports turf maintenance program are developed and documented.
4. Monitor the sports turf maintenance program	4.1. Implementation of the maintenance program is monitored to ensure enterprise standards for presentation of sports turf playing surfaces are achieved. 4.2. The sports turf maintenance program is reviewed and monitored to ensure it remains responsive to changing conditions. 4.3. Appropriate courses of action are implemented to alleviate or overcome identified shortcomings in the program. 4.4. Remedial action undertaken is documented and reported to management according to enterprise policy.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- research and evaluate information
- assess site factors and evaluate their impact on the development of the sports turf maintenance program
- comply with legislative requirements
- document plans, specifications and work procedures, and write reports for the understanding of staff, managers and contractors
- calculate the cost and spatial and logistical requirements of components of the

REQUIRED SKILLS AND KNOWLEDGE

sports turf maintenance program

- use literacy skills to read, interpret and follow organisational policies and procedures, develop sequenced written instructions, record accurately and legibly information collected and select and apply procedures to a range of tasks
- use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification, negotiating solutions and responding to a range of views
- use interpersonal skills to work with others and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- the principles and practices of maintaining a range of sports turf playing surfaces in relation to client needs, and the standards required for the intended use of the surface
- growth habits and cultural requirements of specific turf plant species and cultivars under a range of soil and environmental conditions
- maintenance requirements and practices for specific turf plant species and cultivars after initial establishment
- site evaluation techniques including analysis of the condition of soils, plants, and the site for turf maintenance activities
- nutrients required by specific turf plant species and cultivars and the affects of nutrient deficiency and toxicity on individual plant species and cultivars, including visual symptoms
- plant diseases of specific turf plant species and cultivars
- the characteristics of soil and other growth media types, uses and additives to enhance the available nutrition for specific turf plant species and cultivars
- soil ameliorants commonly required to treat the soil problems experienced by the enterprise
- the main simple and compound fertiliser products available to the enterprise
 - legislation and regulations relating to sports turf sites and turf maintenance activities.

Evidence Guide

EVIDENCE GUIDE	
The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following: • use existing information and records to determine a comprehensive maintenance program • prepare an seasonal/annual program according to the requirements of the enterprise and the grounds maintenance budget • communicate a sports turf maintenance program to staff.
Context of and specific resources for assessment	Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole.	
Maintenance may include:	• soil and turf plant tissue testing • applying nutrients • watering • rolling • mowing • monitoring turf plant health • renovating where necessary • preparing the sports turf playing surface to presentation standards.

Unit Sector(s)

Unit sector	Turf
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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