



Packaging of Competency Standards for Vocational Qualifications

CCAGCP2002 CVQ Level 2 – Cricket Pitch And Field Maintenance

Unit Code	Unit Title	Mandatory/ Elective
AGGCOR0051A	Follow Emergency Procedures	Mandatory
AGGCOR0011B	Maintain the Work Environment	Mandatory
AGGCOR0021A	Observe Workplace Health and Safety Requirement	Mandatory
AG00027	Establish and Maintain a Cricket Outfield	Mandatory
AG00028	Maintain a Cricket Pitch	Mandatory
AG00029	Apply Fertilizer To Cricket Pitch and Field	Mandatory
AG00030	Irrigate Cricket Outfields	Mandatory
AG00031	Drain Cricket Pitch and Outfield	Mandatory
AG00032	Use and Maintain Equipment and Machinery	Mandatory

**AGGCOR0051A:****Follow emergency procedures**

Competency Descriptor:

This unit deals with the skills and knowledge required by workers to respond to workplace emergencies such as fire and other dangerous situations and render first aid in the workplace.

Competency Field: Agriculture

ELEMENT OF COMPETENCY		PERFORMANCE CRITERIA	
1.	Minimise emergency situations	1.1	Appropriate actions are taken to maximise safety and minimise health hazards in the workshop and on site.
		1.2	Machinery handling and actions minimise risks to all personnel.
		1.3	Regular checks of the environs are carried out to minimise potential hazards.
2.	Plan for emergencies	2.1	Contingency plans are understood and activated for emergencies in compliance with enterprise policies.
		2.2	Regular checks of the environs are carried out to minimise potential hazards.
		2.3	Personal responsibilities are carried out in emergency situations and practice drills.
		2.4	Evaluation procedures are implemented to company standards.
3.	Act as instructed in emergencies	3.1	Contingency plans are activated for emergencies in compliance with safety procedures.
		3.2	Emergency procedures are carried out as required by established workplace policy.
4.	Implement fire prevention and control	4.1	Fire hazards are minimised as specified in workshop and fuelling procedures.
		4.2	Appropriate fire extinguishers and fire fighting plant are used in fire situations and the appropriate authority is notified according to specified procedures.
		4.3	Evacuation procedures are implemented as instructed according to workplace policy.



5. Render First Aid
- 5.1 First aid appropriate to the incident is correctly applied.
- 5.2 The patient is monitored whilst awaiting professional or para-medical support.

RANGE STATEMENT

The Range Statement provides advice to interpret the scope and context of this unit of competency, allowing for differences between enterprises and workplaces. It relates to the unit as a whole and facilitates holistic assessment. The following variables may be present for this particular unit.

Emergency situations may include:

- power failure
- quarantine breakdown
- fire, flood, storms
- heart failure
- breathing stopped and serious personal injury.

Legislation, codes and national standards relevant to the workplace may include:

- Labour laws of Jamaica
- Pesticide control authority regulations
- Occupational Health & Safety (OHS)
- Hygiene requirements
- First Aid regulations/requirements

Emergency equipment may include:

- first aid kits
- fire extinguishers
- emergency power generators
- chemical spillage kits

EVIDENCE GUIDE

Competency is to be demonstrated by the ability to apply knowledge and skills to the emergency situations outlined in the range statement.

(1) Critical Aspects of Evidence

Evidence should include a demonstrated ability to:

- consistently follow supervisor's instructions
- use emergency methods and procedures to respond to workplace emergency to the level acceptable by the enterprise
- activate contingency plans for emergency according to company standards
- report and record within established routines

(2) Pre-requisite Relationship of Units

- AGGCOR0021A Observe workplace health and safety requirement

**(3) Underpinning Knowledge and Skills**Knowledge

Knowledge of:

- sources of human injury
- basic concept of duty of care
- specific Acts and Regulations relating to emergency situations
- First Aid procedures for burns, heart attack, fainting, severe bleeding, open wound chemical burn, sprain, strain and electrical shocks
- fire safety measures
- types of fire extinguishers
- incident report

Skills

The ability to:

- minimise emergency situations
- plan for emergencies
- act as instructed in emergencies
- implement fire prevention and control
- render first aid as required
- apply fire safety measures
- write incident report

(4) Resource Implications

- a simulated work environment
- first aid kit
- fire extinguishers

(5) Method of Assessment

In order to achieve consistency of performance, evidence should be collected over a set period of time, which is sufficient to include dealings with an appropriate range of emergency situations

(6) Context of Assessment

This unit must be assessed through practical demonstration on-the-job or in a simulated workplace.

The underpinning knowledge may be assessed off-the-job with the use of written or verbal items.



CRITICAL EMPLOYABILITY SKILLS

Three levels of performance denote level of competency required to perform a task. These levels do not relate to the NCTVET Qualification Framework. They relate to the seven areas of generic competency that underpin effective workplace practices.

Levels of Competency		
Level 1.	Level 2.	Level 3.
<ul style="list-style-type: none"> Carries out established processes Makes judgement of quality using given criteria 	<ul style="list-style-type: none"> Manages process Selects the criteria for the evaluation process 	<ul style="list-style-type: none"> Establishes principles and procedures Evaluates and reshapes process Establishes criteria for evaluation

Collecting, analysing and organising ideas and information	Level 1	
Communicating ideas and information	Level 1	
Planning and organising activities	Level 1	
Working with others and in teams	Level 1	
Use mathematical ideas & techniques	Level 1	
Solve problems	Level 1	
Using technology	Level 1	

Please refer to the Assessment Guidelines for advice on how to use the Critical Employability Skills.

**AGGCOR0011B: Maintain the work environment**

Competency Descriptor:

This unit deals with the skills and knowledge required to keep the workplace place including workshops, tool sheds and planted areas tidy and safely maintained.

Competency Field: Agriculture

ELEMENT OF COMPETENCY	PERFORMANCE CRITERIA
1. Maintain a clean and efficient workplace	1.1 Appropriate tools are selected and used safely. 1.2 Waste and used materials are removed and placed in disposal containers specified by the enterprise. 1.3 Floors, benches and other flat work surfaces are swept, washed and treated according to enterprise guidelines. 1.4 Work areas are tidied and material stored neatly and according to enterprise guidelines.
2. Adopt safe working practices	2.1 Work habits (including personal hygiene) reflect knowledge and understanding of Occupational Health & Safety (OHS) responsibilities. 2.2 Protective clothing is worn and safety equipment is used according to enterprise safety plan/policy. 2.3 The work environment is kept tidy and free of hazards according to enterprise safety plan/policy. 2.4 Dangers and hazards within the workplace are recognised and reported to the appropriate person 2.5 Manual handling techniques when lifting or moving heavy loads conform to Occupational Health & Safety (OHS) guidelines.
3. Use hand tools, machinery and equipment	3.1 Tools, machinery and equipment are used to manufacturers or enterprise specifications. 3.2 Manufacturers and enterprise safety requirements are followed. 3.3 Unsafe or faulty tools, machinery and equipment are identified and segregated for repair or replacement. 3.4 Tools, machinery and equipment are cleaned and stored according to company policy.



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| 4 | Maintain structures and surroundings | 4.1 | Structures are repaired to enterprise standards and according to supervisor's directions. |
| | | 4.2 | Surroundings are maintained according to enterprise requirements. |
| | | 4.3 | Structural damage and deterioration are reported to enterprise requirements. |

RANGE STATEMENT

The Range Statement provides advice to interpret the scope and context of this unit of competency, allowing for differences between enterprises and workplaces. It relates to the unit as a whole and facilitates holistic assessment. The following variables may be present for this particular unit.

This unit of competency should be demonstrated in accordance with the enterprise's :

- policies and procedures in regard to the maintenance of sites
- designated operating hours

Legislation, codes and national standards relevant to the workplace may include:

- Labour laws of Jamaica
- Pesticide control authority regulations
- Occupational Health & Safety (OHS)
- Hygiene requirements
- First Aid regulations/requirements

Tools and equipment may include:

- hand tools
- machinery and equipment in workshops or on-site inclusive of hand motor mowers, brush cutters, vacuum cleaners and blowers, high pressure air, water cleaners, pruning equipment and hoses

Structures may include:

- buildings, roads, tracks, soil conservation works, trellises, shelters, shade cloth, bird netting, hail netting, glass houses, yards, fences, drying racks and irrigation systems

Dangers may include:

- fire, electricity, natural objects (trees and landforms etc), water, plant, machinery, vehicles, chemicals

Planted areas may include:

- display beds, treed areas, shrubberies

EVIDENCE GUIDE

Competency is to be demonstrated by the ability to apply knowledge and skills to a limited range of maintenance tasks and roles.

(1) Critical Aspects of Evidence

- consistently follow supervisor's instructions
- perform maintenance tasks to the enterprise standard
- report and record within established routines
- apply OHS procedures

**(2) Pre-requisite Relationship of Units**

- Nil

(3) Underpinning Knowledge and SkillsKnowledge

Knowledge of:

- OHS rules and regulations for the workplace
- machinery assessment practices for safe use
- maintenance tasks for a worksite
- enterprise policy relevant to the job

Skills

The ability to:

- maintain a clean and efficient workplace
- use hand tools, machinery and equipment
- maintain structures and surroundings

(4) Resource Implications

- on the job agriculture work place environment

(5) Method of Assessment

This unit of competency may be assessed in conjunction with other units.

To achieve consistency of performance, evidence should be collected over a set period of time, which is sufficient to include dealings with an appropriate range of maintenance tasks.

(6) Context of Assessment

This unit must be assessed through practical demonstration on-the-job or in a simulated workplace environment.

The underpinning knowledge may be assessed off-the-job with the use of written or verbal items inclusive of short answer, extended essay items project or portfolio.

**CRITICAL EMPLOYABILITY SKILLS**

Three levels of performance denote level of competency required to perform a task. These levels do not relate to the NCTVET Qualification Framework. They relate to the seven areas of generic competency that underpin effective workplace practices.

Levels of Competency		
Level 1.	Level 2.	Level 3.
<ul style="list-style-type: none"> Carries out established processes Makes judgement of quality using given criteria 	<ul style="list-style-type: none"> Manages process Selects the criteria for the evaluation process 	<ul style="list-style-type: none"> Establishes principles and procedures Evaluates and reshapes process Establishes criteria for evaluation

Collecting, analysing and organising ideas and information	Level 1	
Communicating ideas and information	Level 1	
Planning and organising activities	Level 1	
Working with others and in teams	Level 1	
Use mathematical ideas & techniques	Level 1	
Solve problems	Level 1	
Using technology	Level 1	

Please refer to the Assessment Guidelines for advice on how to use the Critical Employability Skills.

**AGGCOR0021A: Observe workplace health and safety requirement**

Competency Descriptor:

This unit deals with the skills and knowledge required by workers to meet workplace occupational health and safety requirements.

Competency Field: Agriculture

ELEMENT OF COMPETENCY		PERFORMANCE CRITERIA	
1.	Maintain a clean and efficient workplace	1.1	Basic safety checks are undertaken before operation of all machinery and vehicles and hazards are reported to the appropriate supervisor
		1.2	Work for which protective clothing or equipment is required is identified and the appropriate protective clothing or equipment is used in performing these duties in accordance with workplace policy.
		1.3	Prior to performing manual handling jobs, risk is assessed and work is carried out according to currently recommended safe practice.
		1.4	Risks to bystanders are recognized and action is taken to reduce risk associated with jobs in the workplace
		1.5	All procedures and work instructions for controlling risk are followed closely.
2.	Render appropriate emergency procedures	2.1	Individuals maintain the necessary knowledge of and ability to follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to emergency.
		2.2	Emergency procedures are followed to company standards and workplace requirements.
		2.3	Emergency equipment is used in accordance with manufacturers' specifications and workplace requirements.
3.	Participate in arrangements for maintaining health and safety of all people in the workplace	3.1	Appropriate authorities are notified according to company policy.
		3.2	Contributions are made to the on going monitoring and reporting of all aspects of (OHS).



RANGE STATEMENT

The Range Statement provides advice to interpret the scope and context of this unit of competency, allowing for differences between enterprises and workplaces. It relates to the unit as a whole and facilitates holistic assessment. The following variables may be present for this particular unit.

This unit of competency should be demonstrated:

- in accordance with the enterprise's policies and procedures for maintaining health and safety at the workplace

Legislation, codes and national standards relevant to the workplace may include:

- Labour laws of Jamaica
- Pesticide control authority regulations
- Occupational Health & Safety (OHS)
- Hygiene requirements
- First Aid regulations/requirements

Hazardous manual handling tasks include:

- moving
- lifting
- carrying bags, drums, cartons
- shovelling
- loading materials
- pulling
- pushing
- up-ending materials
- chipping weeds
- picking fruit or vegetables

This unit of competency should be demonstrated in accordance with the enterprise's :

Hazards in the workplace include:

- plant and machinery operation and maintenance
- vehicles including motorcycles
- noise
- chemicals
- manual handling
- dust
- solar radiation
- natural hazards in trees (thorns and spines)
- electricity
- waterways

Protective clothing or equipment is required for:

- noise associated with plant and machinery
- pesticides
- dust
- work in the sun

Risk to bystanders include:

- run-over and injury associated with vehicles and machinery
- exposure to noise



Workplace procedures will include:

- hazard policies and procedures
- emergency policies and procedures
- procedures for use of personal protective clothing and equipment
- hazard identification and issue resolution procedures
- job procedures and work instructions

OHS emergencies in the workplace may include:

- electrocution
- fire
- flood
- chemical spills
- serious injury associated with tractors
- machines
- vehicles

Workers may include:

- permanently employed workers
- casual workers
- seasonal workers
- people visiting the workplace.
- contract workers

Other individuals may include:

- people visiting the workplace

EVIDENCE GUIDE

Competency is to be demonstrated by the ability to apply of knowledge and skills to a limited range maintenance tasks and roles.

(1) Critical Aspects of Evidence

- Evidence should include a demonstrated ability to consistently follow supervisor’s instructions and use methods and procedures that are predictable to perform a limited range of maintenance roles in the appropriate context and to the level acceptable by the enterprise.
- The work is likely to be under direct supervision with regular checking. Reporting and recording is undertaken within established routines using methods and procedures that are predictable. There is a specified range of duties and contexts where the choice of actions required will be made quite clear by the supervisor.

(2) Pre-requisite Relationship of Units

- Nil

(3) Underpinning Knowledge and Skills

Knowledge

Knowledge of:

- significant hazards in the workplace
- local emergency services
- personal hygiene and fitness requirements

Skills

The ability to:

- follow workplace procedure for hazard identification and risk control
- act in an emergency
- maintain health and fitness
- render first aid

**(4) Resource Implications**

The following resources should be made available:

(4) Method of Assessment

Competency shall be assessed while work is undertaken under direct supervision and when the student/ apprentice is able to successfully perform all the required Performance Criteria relevant to the Unit in a workplace or simulated farm environment, within commercially acceptable timeframes.

Competencies in this unit may be demonstrated concurrently.

(6) Context of Assessment

This unit must be assessed through practical demonstration on-the-job or in a simulated workplace environment requiring until competency is achieved. /*

The underpinning knowledge may be assessed off-the-job with the use of written or verbal items inclusive of short answer, extended essay items project or portfolio.

CRITICAL EMPLOYABILITY SKILLS

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Please refer to the Assessment Guidelines for advice on how to use the Critical Employability Skills.

AG00027: Establish and Maintain a Cricket Outfield

Unit Descriptor:

This unit deals with the skills and knowledge required for establishing and maintaining a Cricket Outfield. It describes the work expectations associated with establishing turf using vegetative or seed propagation methods and maintaining the Cricket Outfield using suitable equipment.

ELEMENTS		PERFORMANCE CRITERIA	
Candidates must be able to:			
1	Establish turf using suitable method	1.1	Select turf species and cultivar according to the requirements of the sport and climate
		1.2	Choose method of turf establishment according to the selected turf species and cultivar
		1.3	Prepare soil surface for selected method of turf establishment
		1.4	Keep the selected vegetative material free from pest, disease and foreign material
		1.5	Check that conditions are appropriate for turf establishment
		1.6	Use selected method of turf establishment, ensuring all specifications are met
		1.7	Report problems and take appropriate action where necessary according to supervisor's instructions
2	Maintain outfield	2.1	Check that surface environment and root zone meet requirements for successful establishment
		2.2	Inspect surface to ensure that sown or planted species are established according to method of turf establishment
		2.3	Select appropriate tools and equipment for cutting and maintaining the turf surface
		2.4	Cut turf surface using the appropriate mowing equipment ensuring that the height and quality is maintained
		2.5	Remove clippings from turf surface when necessary and dispose according to approved procedures
		2.6	Select suitable rolling equipment according to the weather and soil conditions
		2.7	Roll turf surface as required ensuring that a consistent surface is maintained

- 2.8 Inspect turf regularly and report unhealthy turf conditions to the supervisor
- 2.9 Control the presence of pests, diseases and weeds using approved equipment and chemicals
- 2.10 Maintain and store tools and equipment according to established procedures

RANGE STATEMENT

Method of turf establishment includes:

- vegetative propagation
- seed propagation

Mowing equipment includes:

- brush cutter
- lawn mower
- weed wacker

Vegetative material includes:

- turf
- plugs
- stolons
- sprigs

UNDERPINNING KNOWLEDGE AND SKILLS

Candidates must know:

1. what affects the selection of the turf species and cultivar
2. what criteria affect the choice of method for turf establishment
3. how to prepare the soil surface for turf establishment
4. what are the conditions necessary for turf establishment
5. how to establish turf through vegetative and seed propagation
6. what percentage of the outfield should be established
7. how to use equipment for cutting the turf surface
8. what equipment is used to roll the outfield
9. why is it important to maintain a smooth and consistent outfield
10. how to identify and control the presence of pests, diseases and weeds on turf
11. why is it important to control the presence of pests, diseases and weeds and what effect do these conditions have on the turf
12. how to maintain and store tools and equipment

EVIDENCE GUIDE

(1) Critical Aspects of Evidence

Competency must be demonstrated in the ability to perform consistently at the required standards. In particular, assessors should look to see that the candidate:

- select method of turf establishment
- establish turf under appropriate conditions
- meet turf establishment specifications
- maintain outfield according to established specifications
- mow turf surface using appropriate equipment
- roll turf surface using appropriate equipment
- identify symptoms of pests, diseases and weeds
- select appropriate chemicals and equipment for controlling pests, diseases and weeds
- maintain and store tools and equipment according to established procedures
- perform all tasks according to established procedures
- report problems according to established procedures

(2) Method of Assessment

Assessors should gather a range of evidence, over a period of time, which is valid, sufficient and authentic. Evidence should be gathered through a variety of ways including direct observation, practical work, oral and/or written questioning. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, manufacturer's specifications, codes, standards, manuals and reference materials.

(3) Context of Assessment

This unit must be assessed on the job. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.

AG00028: Maintain a Cricket Pitch

Unit Descriptor:

This unit deals with the skills and knowledge required for maintaining a Cricket Pitch. It describes the work expectations associated with conducting pre-season, in-season and off-season maintenance of a Cricket Pitch.

ELEMENTS

Candidates must be able to:

PERFORMANCE CRITERIA

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| 1 | Conduct pre-season maintenance of a cricket pitch | 1.1 | Manage the cricket pitch to ensure adequate grass growth and coverage according to supervisor's instructions |
| | | 1.2 | Irrigate the pitch, as necessary, according to the environmental and soil conditions |
| | | 1.3 | Select equipment for rolling the pitch |
| | | 1.4 | Roll pitch adequately by applying the correct compaction techniques according to the moisture content |
| | | 1.5 | Report any problems to the supervisor and take appropriate action where necessary |
| 2 | Conduct in-season maintenance of a cricket pitch | 2.1 | Inspect cricket pitch weekly for uniform grass growth and surface consistency according to supervisor's instructions |
| | | 2.2 | Irrigate the pitch, as necessary, according to the environmental and soil conditions |
| | | 2.3 | Roll pitch as required to ensure suitable surface consistency and compaction according to job specifications |
| 3 | Conduct off-season maintenance of a cricket pitch | 3.1 | Aerate pitch thoroughly using appropriate methods |
| | | 3.2 | Identify low areas and apply surface soil dressing according to supervisor's instructions |
| | | 3.3 | Treat any bare or affected areas prior to replanting according to supervisor's instructions |
| | | 3.4 | Select appropriate vegetative material for replanting according to supervisor's instructions |
| | | 3.5 | Replant bare areas using the selected vegetative material according to supervisor's instructions |
| | | 3.6 | Irrigate the pitch, as necessary, according to the environmental and soil conditions |

RANGE STATEMENT

Equipment relates to **PC1.3** and includes:

- mechanical
- non – mechanical

Compaction Techniques relate to **PC1.4** and include:

- Clegg Hammer Test
- Moisture Metre Test
- Bounce Test

Vegetative material relates to **PC3.4** and includes:

- turf
- plugs
- stolons
- sprigs

UNDERPINNING KNOWLEDGE AND SKILLS

Candidates must know:

1. what affects the irrigation requirements of a cricket pitch
2. what are the different rolling equipment available to maintain a cricket pitch
3. what conditions affect the selection of rolling equipment
4. what rolling techniques are used during the pre season, in season and off season
5. what are the pitch maintenance requirements during the pre season, in season and the off season
6. why is it necessary to aerate the pitch during the off season
7. how to deal with low areas on a pitch

EVIDENCE GUIDE

(1) Critical Aspects of Evidence

Competency must be demonstrated in the ability to perform consistently at the required standards. In particular, assessors should look to see that the candidate:

- irrigate cricket pitch according to environmental and soil conditions
- select appropriate equipment for rolling pitch
- roll pitch adequately, applying correct compaction techniques
- check cricket pitch for uniform grass cover and surface consistency
- aerate the pitch using appropriate methods
- treat bare areas before replanting
- select vegetative material for replanting

- replant bare areas using selected vegetative material
- maintain and store tools and equipment according to established procedures
- perform all tasks according to established procedures
- report problems according to established procedures

(2) Method of Assessment

Assessors should gather a range of evidence, over a period of time, which is valid, sufficient and authentic. Evidence should be gathered through a variety of ways including direct observation, practical work, oral and/or written questioning. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, manufacturer's specifications, codes, standards, manuals and reference materials.

(3) Context of Assessment

This unit must be assessed on the job. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.

AG00029: Apply Fertilizer To Cricket Pitch and Field

Unit Descriptor

This unit deals with the skills and knowledge required for determining fertilizer requirements for the cricket pitch and field. It describes the process of determining the nutrient requirement of the turf and the method of applying fertilizer using appropriate equipment

ELEMENTS

Candidates must be able to:

PERFORMANCE CRITERIA

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|---|--|-----|---|
| 1 | Determine the annual requirements of major nutrients | 1.1 | Monitor pitch and outfield for signs of nutrient loss or deficiency in turf system |
| | | 1.2 | Estimate annual amounts of major nutrients according to nutrient requirements of different turf species |
| | | 1.3 | Monitor the effects of major nutrients on turf growth and development utilizing testing equipment where appropriate |
| 2 | Apply fertilizer using appropriate application equipment | 2.1 | Wear protective equipment according to occupational health and safety requirements |
| | | 2.2 | Clear site and ensure it is in an appropriate condition for fertilization according to supervisor's instructions |
| | | 2.3 | Check that turf conditions and weather conditions are suitable for fertilizer application |
| | | 2.4 | Select the appropriate fertilizer application equipment for applying fertilizer |
| | | 2.5 | Apply fertilizer at the recommended rate using the selected application equipment |
| | | 2.6 | Monitor pitch and field for any negative effects of fertilizers and resolve according to supervisor's instructions |
| | | 2.7 | Wash application equipment following manufacturer's instructions |
| | | 2.8 | Store application equipment according to workplace procedures |

RANGE STATEMENT

Effects include:

- colour
- disease susceptibility
- recovery from wear

Turf conditions include:

- moisture level
- seasonal requirements
- plant height

Testing equipment includes:

- soil moisture probe
- soil pH kit

Application equipment includes:

- back pack sprayer
- tractor-mounted spreaders
- boom sprayers
- mist blower

UNDERPINNING KNOWLEDGE AND SKILLS

Candidates must know:

1. how to monitor the turf for loss of nutrients
2. how to estimate the nutrient requirements of the turf
3. what factors influence the turf's fertilizer requirements
4. what conditions affect fertilizer application
5. how to use and maintain fertilizer application equipment
6. what protective equipment should be used when applying fertilizer

EVIDENCE GUIDE

(1) Critical Aspects of Evidence

Competency must be demonstrated in the ability to perform consistently at the required standards. In particular, assessors should look to see that the candidate:

- monitor the cricket pitch and outfield for signs of nutrient deficiency
- estimate nutrient requirement of turf species to determine fertilizers required
- monitor effects of nutrients on turf growth and development
- select and use appropriate fertilizer application equipment correctly
- apply fertilizer under appropriate conditions
- monitor effects of fertilizer on pitch and field
- maintain and store application equipment according to established procedures
- perform all tasks according to established procedures
- report problems according to established procedures

(2) Method of Assessment

Assessors should gather a range of evidence, over a period of time, which is valid, sufficient and authentic. Evidence should be gathered through a variety of ways including direct observation, practical work, oral and/or written questioning. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, manufacturer's specifications, codes, standards, manuals and reference materials.

(4) Context of Assessment

This unit must be assessed on the job. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.

AG00030: Irrigate Cricket Outfields

Unit Descriptor:

This unit deals with the skills and knowledge required for irrigating a Cricket Outfield. It describes the methods of operating and maintaining outfield irrigation equipment/ system.

ELEMENTS

Candidates must be able to:

PERFORMANCE CRITERIA

1	Operate and adjust cricket outfield irrigation equipment/system	1.1	Programme controllers according to manufacturer's recommendations
		1.2	Test soil water saturation levels using a soil moisture testing meter
		1.3	Determine the quantity of water to be applied using the results of the soil water test
		1.4	Adjust the irrigation system to obtain maximum efficiency and uniform water distribution
2	Maintain cricket outfield irrigation equipment/system	2.1	Service irrigation components according to manufacturer's specifications
		2.2	Source spare parts from a reliable supplier according to workplace procedures
		2.3	Perform physical check s on irrigation equipment according to manufacturer's specifications
		2.4	Report problems and take appropriate action where necessary according to supervisor's instructions

RANGE STATEMENT

Uniform water distribution includes:

- no ponding on surface
- no dry patches

Components include:

- screens
- pumps
- filters
- faulty or damaged sprinkler heads
- conveyance and distribution lines

UNDERPINNING KNOWLEDGE AND SKILLS

Candidates must know:

1. how to operate and maintain the irrigation equipment/system
2. how to test the soil water saturation level and why it is necessary
3. how to utilize the irrigation equipment/system to maximize efficiency
4. how to check irrigation equipment/system for faults and how often is this done
5. how to repair or replace minor parts in an irrigation system
6. how to maintain stock of parts for the irrigation system

EVIDENCE GUIDE

(1) Critical Aspects of Evidence

Competency must be demonstrated in the ability to perform consistently at the required standards. In particular, assessors should look to see that the candidate:

- programme irrigation controllers according to manufacturer's specifications
- test soil water saturation levels using appropriate instrument
- adjust the irrigation system to achieve maximum efficiency
- service components of the irrigation system/equipment
- perform scheduled checks on irrigation equipment/system
- perform all tasks according to established procedures
- report problems according to established procedures

(2) Method of Assessment

Assessors should gather a range of evidence, over a period of time, which is valid, sufficient and authentic. Evidence should be gathered through a variety of ways including direct observation, practical work, oral and/or written questioning. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, manufacturer's specifications, codes, standards, manuals and reference materials.

(3) Context of Assessment

This unit must be assessed on the job. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.

AG00031: Drain Cricket Pitch and Outfield

Unit Descriptor:

This unit deals with the skills and knowledge required for draining a cricket pitch and outfield. It describes the process of checking the cricket field for drainage problems and the method of installing a basic drainage system.

ELEMENTS

PERFORMANCE CRITERIA

Candidates must be able to:

- | | | |
|---|---|--|
| 1 | Monitor the cricket pitch and outfield for poor drainage | 1.1 Check cricket field for evidence of drainage problems according to supervisor's instructions |
| | | 1.2 Report drainage problems according to supervisor's instructions |
| 2 | Install a basic drainage system using a pre-determined design | 2.1 Select and use tools according to job specifications |
| | | 2.2 Lay out drainage pattern according to job specifications |
| | | 2.3 Perform manual excavation where necessary according to job specifications |
| | | 2.4 Lay drainage pipes where necessary according to job specifications |
| | | 2.5 Install backfill to the required level according to job specifications |
| | | 2.6 Restore the turf surface to required consistency and quality according to job specifications |
| | | 2.7 Monitor the drainage system, regularly, as specified by workplace procedures |

RANGE STATEMENT

Evidence includes:

- ponding
- root rot
- algae
- smell

Tools include:

- spades
- shovels
- forks

UNDERPINNING KNOWLEDGE AND SKILLS

Candidates must know:

1. what are the signs of drainage problems
2. what conditions cause drainage problems
3. how to install a simple drainage system using a design
4. what are the possible causes of drainage problems

EVIDENCE GUIDE

(1) Critical Aspects of Evidence

Competency must be demonstrated in the ability to perform consistently at the required standards. In particular, assessors should look to see that the candidate:

- identify evidence and causes of drainage problems
- lay out drainage pattern according to specifications
- lay drainage pipes according to specifications
- restore turf surface to required consistency and quality
- perform all tasks according to established procedures
- report problems according to established procedures

(2) Method of Assessment

Assessors should gather a range of evidence, over a period of time, which is valid, sufficient and authentic. Evidence should be gathered through a variety of ways including direct observation, practical work, oral and/or written questioning. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, manufacturer's specifications, codes, standards, manuals and reference materials.

(3) Context of Assessment

This unit must be assessed on the job. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.

AG00032: Use and Maintain Equipment and Machinery

Unit Descriptor:

This unit deals with the skills and knowledge required for using and maintaining equipment and machines. It describes the method of selecting, using and servicing equipment and machinery.

ELEMENTS

PERFORMANCE CRITERIA

Candidates must be able to:

- | | | | |
|---|--|-----|--|
| 1 | Use equipment and machinery | 1.1 | Select appropriate equipment and machinery according to required task |
| | | 1.2 | Select and use appropriate personal protective clothing and equipment according to occupational health and safety requirements |
| | | 1.3 | Check working condition of equipment and machinery according to manufacturer's specifications |
| | | 1.4 | Use equipment and machinery according to manufacturer's instructions and regulatory requirements |
| | | 1.5 | Identify any problems with the equipment and machinery and take corrective action according to supervisor's instructions |
| | | 1.6 | Clean and store equipment according to manufacturer's specification |
| 2 | Carry out routine maintenance to equipment and machinery | 2.1 | Prepare equipment and machinery for maintenance according to manufacturer's specification |
| | | 2.2 | Maintain equipment and machinery in accordance with manufacturers instructions and standard procedures |
| | | 2.3 | Dispose of waste in a safe manner and place according to environmental regulations |
| | | 2.4 | Seek advice and assistance from the appropriate person when necessary |

RANGE STATEMENT

Equipment and Machinery include:

- rollers
- water pumps
- grass cutters
- spray cans

UNDERPINNING KNOWLEDGE AND SKILLS

Candidates must know:

1. how to select the correct items of machinery and equipment for a task
2. how to check equipment and machinery and perform different types of pre-operational maintenance
3. what are the main hazards associated with using equipment and machinery
4. what are the manufacturer's instructions for operation of the equipment and machinery
5. what types of problems can occur with equipment and machinery and how to deal with them correctly
6. what are the methods of maintaining equipment and machines
7. what are the reasons for maintaining equipment and machinery and consequences of not maintaining them correctly
8. what are the correct methods of disposing waste materials
9. what are suitable methods of storing tools, equipment and machinery safely

EVIDENCE GUIDE

(1) Critical Aspects of Evidence

Competency must be demonstrated in the ability to perform consistently at the required standards. In particular, assessors should look to see that the candidate:

- select appropriate equipment and machinery according to the task required
- select and use appropriate personal protective equipment
- check equipment and machinery for defects
- use and maintain equipment and machinery according to manufacturer's specifications
- clean and store equipment and machinery according to established procedures
- dispose of waste materials according to established procedures
- perform all tasks according to established procedures
- report problems according to established procedures

(2) Method of Assessment

Assessors should gather a range of evidence, over a period of time, which is valid, sufficient and authentic. Evidence should be gathered through a variety of ways including direct observation, practical work, oral and/or written questioning. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, manufacturer's specifications, codes, standards, manuals and reference materials.

(3) Context of Assessment

This unit must be assessed on the job. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.