



Australian
Sports Turf Managers
Association

Course Assessment Guide

AHC31319 Certificate III in Sports Turf Management

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Welcome

Congratulations and welcome to the Certificate III in Sports Turf Management (AHC31319).

The Australian Sports Turf Managers Association was formed in 1981 represents over 1,500 members as the peak industry body for sports turf management in Australia.

A not-for-profit incorporated Association, ASTMA represents professional Sports Turf Managers across Golf Courses, Sportsfields & Grounds, Racetracks, Lawn Tennis, Councils, Turf Equipment Technicians and other related fields, the association supports members through education, facilitating Industry Awards, advocacy, and research & development into professional and environmentally sustainable Turf Management.

The Australian Sports Turf Managers Association aims to improve the knowledge, welfare and professional standards of its members and other industry professionals as well as the production of quality turf playing surfaces at Sport & Recreation facilities across Australia.

As well, we have a dedicated team to support you in your training.

We look forward to working with you over the next three years to assist in your professional development and wish you every success.

Regards



Training Manager
ASTMA Training

AHC31319 Certificate III in Sports Turf Management (R1)

Qualification Description

This qualification describes the skills and knowledge for trade level roles carried out under general direction within sports turf management.

Individuals with this qualification perform tasks autonomously involving a broad range of skills that are applied in a wide variety of sports turf facilities and workplaces. They exercise discretion and judgement in planning tasks, selecting and operating equipment, coordinating resources and applying contingency measures during work.

Legislation related to the installation of irrigation and the storage, handling and application of chemicals applies in some states and territories.

Entry Requirements

Australian Sports Turf Managers Association (ASTMA) requires students are

- Have commenced as a licenced apprentice in the vocation of Sports Turf Management (AHC31319) or currently work within Sports Turf Management or related industries.
- 18 years of age or over and have completed high school or have been provided with an application from the board of studies to enter in the qualification.
- Complete a language, literacy and numeracy (LLN) assessment to demonstrate that they have the required level of LLN skills required by the course.

Purpose

- Use agronomy to produce sports surfaces to a standard expected by sports stakeholders and /or the public
- Work autonomously under broad direction

Knowledge

Graduates of a Certificate III will have factual, technical, procedural and theoretical knowledge in an area of work and learning

Skills

Graduates of a Certificate III will have:

- cognitive, technical and communication skills to interpret and act on available information
 - cognitive and communication skills to apply and communicate known solutions to a variety of
 - predictable problems and to deal with unforeseen contingencies using known solutions
 - technical and communication skills to provide technical information to a variety of specialist and non-specialist audiences
- technical skills to undertake routine and some non-routine tasks in a range of skilled operations

Application

Graduates of a Certificate III will demonstrate the application of knowledge and skills:
of knowledge

- with discretion and judgement in the selection of equipment, services or contingency measures and skills
- to adapt and transfer skills and knowledge within known routines, methods, procedures and time constraints

in contexts that include taking responsibility for own outputs in work and learning including participation in teams and taking limited responsibility for the output of others within established parameters

Job Titles

- Sports Turf Management Tradesperson
- Qualified greenkeeper
- Grounds person (SA)

Job Tasks

- Communicate with workgroup, stakeholders and the larger community
- Participate in toolbox talks
- Knowledge of WHS and Environmental Legislation and its relevance to Sports Turf
- Machinery operation and safety
- Machinery maintenance and basic fault finding
- Principles of soil science, including physical, chemical and biological properties
- Understanding of botany, physiology and relationships with water movement and uptake
- Turf surface preparation including marking according to the rules of the game
- Sports turf establishment repair and renovation
- Control of weeds using physical, mechanical, cultural quarantine and with limited chemical control measures
- Control of pests diseases and disorders using physical, mechanical, cultural and quarantine control and with limited chemical control measures
- Irrigation installation, operation and maintenance
- Sports Turf construction including principles of drainage and installation
- Principles of sports turf renovation
- Understanding of plant nutrition and application of fertilisers and amendments
- Safe application of pesticides according to various legislation

Career Pathways

Students who complete this course can expect to gain work as a:

- Sports turf trades person
- Greenkeeper
- Cricket curator
- Turf racetrack worker
- Grounds-person
- Students who complete this course may wish to continue their education into such courses such as
- AHC51019 - Diploma of Sports Turf Management

Packaging Rules

To achieve this qualification, competency must be demonstrated in:

- 23 units of competency:
 - 18 core units plus
 - 5 elective units.

Elective units have been selected in consultation with our industry partners

	Code	Title	Core/ Elective
1	AHCWHS301	Contribute to work health and safety processes	Core

	Code	Title	Core/ Elective
2	AHCMOM304	Operate machinery and equipment	Core
3	ACMGEN315	Communicate effectively with clients and team members	Elective
4	FSKNUM023	Estimate, measure and calculate measurements for work	Elective
5	AHCTRF311	Renovate sports turf	Core
6	AHCTRF306	Prepare sports turf surfaces for play	Core
7	AHCSOL304	Implement soil improvements for garden and turf areas	Core
8	AHPCPM204	Recognise plants	Elective
9	AHCPMG301	Control weeds	Core
10	AHCPMG302	Control plant pests, diseases and disorders	Core
11	AHCCHM304	Transport and store chemicals	Core
12	AHCCHM307	Prepare and apply chemicals to control pest, weeds and diseases	Core
13	AHCTRF310	Monitor turf health	Core
14	AHCTRF308	Establish turf	Core
15	AHCIRG346	Operate pressurised irrigation systems	Core
16	AHCWRK309	Apply environmentally sustainable work practices	Core
17	AHCWRK305	Coordinate work site activities	Elective
18	AHCTRF307	Construct turf playing surfaces	Core
19	AHCDRG305	Install drainage systems	Core
20	AHCIRG345	Install pressurised irrigation systems	Core
21	AHCIRG347	Maintain pressurised irrigation systems	Core
22	AHCSOL406	Sample soils and interpret results	Elective
23	AHPCPM305	Implement a plant nutrition program	Core

Training

Training is one of the most important investments you will ever make. You obviously want the greatest return from your investment.

It must be stated that you are the main player in your training, therefore, you will need to work at it.

Importantly there are other players to help you to along the way. This is called your training partnership. Each partner must work together to achieve the best result for you.

Your Training Commitment

It is very important to realise the partnership you have entered into and what each group is responsible for.



Apprentices

Your role is to ensure you are meeting your training obligations by ensuring you complete set tasks and assessments and provide a record of evidence you are working on your skills and knowledge by undertaking tasks related to your training on the **worksite**, after all, based on a 38 hour week over three years you will complete over 5000 hours at the workplace.

Under the terms and conditions of your apprenticeship you are required to provide evidence of between 1200 and 2400 hours of structured learning. Throughout your training your employer has an obligation to sign off in support of our determination of competence against every unit you undertake as part of your training. Competence is realized when you have consistently undertaken the task to benchmark standards in a safe manner.

It is anticipated to successfully achieve competence at the worksite you will need to undertake tasks related to your training for between fifty (50) and one hundred (100) hours each throughout your training.

To assist you and your employer in this task you are required to maintain a record that the tasks you are completing on the workplace. This record therefore will ensure you are getting the most out of your training.

To assist you and your employer in this task you are required to maintain a record that the tasks you are completing on the workplace. This record therefore will ensure you are getting the most out of your training.

If you have any concerns discuss this in the first instance with your employer or ASTMA Training Team.

Employers

To provide the best training experience for an employee, employers need to have a thorough understanding of the course curriculum and meet the needs of your employee by ensuring they are regularly covering all aspects of the learning outcomes at work.

Key Requirements as a Supervisor

- As a supervisor you will act as a role model and workplace coach.
- The apprentice will look to you for guidance and help in learning how to do their job.
- You will need to organise and record both on-the-job and formal training activities undertaken in the workplace, as well as provide assessment evidence to the ASTMA trainer/assessor as required.
- You will also assist the apprentice in gaining access to equipment and training as needed or outlined in the Training Plan

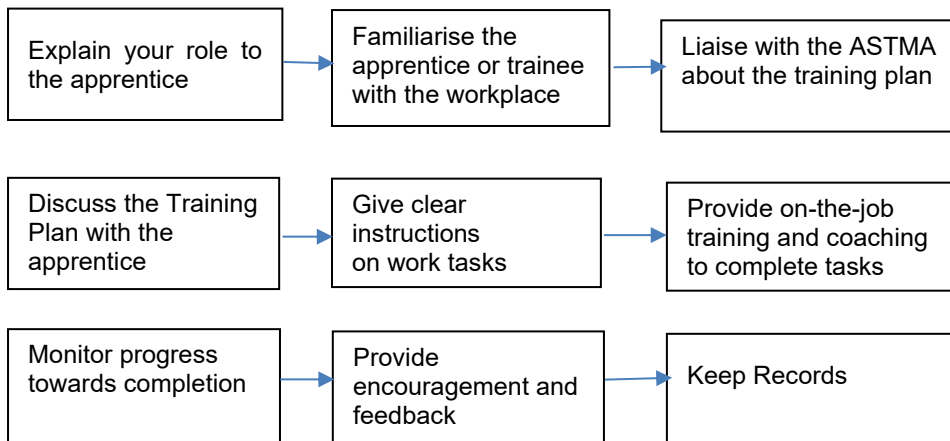
Training, whether delivered by the ASTMA or by you, will be as effective as possible if work task, forthcoming learning is understood and planned, and communication between Supervisor and Trainer is regular and open

An effective workplace supervisor:

- provides a safe and supportive workplace
- integrates learning tasks into work activities based on the Training Plan
- manages safety and production risks while training
- acts as a role model
- meets with the ASTMA regularly to ensure effective training delivery and assessment practices and to review progress through the Training Plan
- manages the apprentice or trainee's training needs and motivation
- helps the apprentice or trainee develop problem solving and general employability skills
- provides regular feedback and encouragement
- promotes independence and self-direction in learning
- maintains records of progress.

On-the-job and formal training activities

Training, whether delivered by the ASTMA or by you, will be as effective as possible if work task, forthcoming learning is understood and planned, and communication between Supervisor and Trainer is regular and open



Once the apprenticeship or traineeship is in progress, you can also focus on checking progress through regular meetings with the apprentice to ensure the Training Plan is being followed and that the ASTMA Student Workbook, is completed and signed off

ASTMA Training

The role of ASTMA Training is to provide the theory behind why the tasks are necessary and conduct assessments to ensure apprentices complete tasks consistently to a level of competence over a range of circumstances to industry benchmark standard.

You are legally bound under your Training Plan Contract to attend all classes.

Registered Training Organisations are used as they have the skills to conduct training and assessment tasks free of bias.

State Training Services

The main role of State Training Services is to oversee that your training occurs and all partners are fulfilling their roles. It is State Training Services that manage your training and issue your Craftsman Certificate on successful completion.

The key to success lies in open communication at all stages in the training partnership to ensure students obtain regular exposure to all the skills of the trade.

Resources Required

Personal Protective Equipment (PPE) Requirements

- Dust Masks
AS/NZS 1716 (P3) dust masks
- Ear Protection
Australian Standard AS/NZS 1270:2002 Ear Protection (ear muffs or plugs)
- Sun block
SPF 50+
- Safety glasses
Australian Standard 1337.1:2010
- Protective footwear (Steel cap boots)
AS/NZS 2210.2:1994
- Broad brimmed hat (90mm minimum)

- Leather work gloves – riggers gloves or similar

Trainer/Assessors will refuse entry to students who arrive without this.

Physical requirements

- Students must have reasonable fitness to perform the requirements of turf management such as operate a range of machinery and equipment
- Students must be comfortable to work outdoors in a variety of weather conditions
- Students will be required to wear personal protective equipment when dealing with chemicals and irrigation equipment
- Students will be required to follow work instructions and procedures for chemical handling, storage and transport and live weeds
- Students will be required to work with pressurised irrigation system operation and maintenance
- Students must not be under the influence of alcohol or drugs and must not be taking any medication (prescribed or otherwise) that may impair judgement.
- Students must not be in a fatigued state when operating machinery and equipment

Lecture requirements:

- Access to a computer/ laptop or ipod with internet connectivity
- 2 x USB Flashdrives (2MB to 4MB each)
- Writing material, ie: Pens, A4 folder and paper
- calculator (not mobile phone)
- scale rule, 1:100, 1:200, 1:500
- geometry compass

Technology Requirements

- Students are required to have access to a computer with internet access. Students are required to have basic computer skills such as email management and electronic documentation management. It is necessary that students are able to work with electronic media including the Australian Sports Turf Managers Association System.

Course Duration

The course will be delivered for a total of 72 weeks (35 weeks per year over two years duration).

Stage 1

2023

Term 1 July 24th to September 25th

Term 2 October 16th to November 27th

2024

Term 3 February 5th to March 27th

Term 4 April 28th to June 17th

Stage 2

2024

Term 1 July 22nd to September 23rd

Term 2 October 21st to November 25th

2025

Term 3 February 3rd to April 7th

Term 4 May 5th to June 16th

Stage 3

Term 1 July 21st to September 25th

Term 2 October 11th to November 27th

2026

Term 3 February 5th to April 2nd

Term 4 April 30th to June 18th

Delivery Mode

This qualification will be delivered in a blended format

Knowledge Skills

Online tutorials will be conducted each week of the school term, via ASTMA's Learning Management System. Each week you will be provided with an email inviting you to the online tutorial session associated with the unit being conducted.

Two units will be delivered at a time. Assessments will be short answer written questions covering the knowledge evidence of the unit and portfolio of evidence consisting of work based reports and student presentations for each unit. You will be provided with all resources on commencement of each unit.

Tutorial sessions are planned to ensure that you have a mixture of practical and theoretical components and cater for a wide variety of learning styles.

Homework tasks may include research, readings from related textbooks and continuing to work on assessment tasks.

Students are provided with all course materials required to support their learning (these are included in the course fees):

2. Practical Skills

Block Release Following completion of the background knowledge requirement of each unit, you will be required to undertake formal practical skills assessment tasks to be conducted in Block Classes over four days (Monday – Thursday) each term at suitable sporting venues to determine you have attained the skill level required to attain competence in each unit.

Costs associated with travel, accommodation and meals are additional, however there are generous incentives offered for eligible apprentices, check eligibility requirements at;

<https://business.gov.au/grants-and-programs/Travel-and-Accommodation-Allowance-SA>

Proposed Block dates for Stage 1 are;

- Orientation Monday July 24th to Thursday July 27th 2023
- Term 1 Monday September 25th to Thursday September 28th 2023
- Term 2 Monday November 27th to Thursday September 30th 2023
- Term 3 Monday April 1st to Thursday April 4th 2024
- Term 4 Monday June 17th to Thursday June 20th 2024

Assessment Arrangements

Assessment will be completed individually. You will be provided with a Student Assessment Booklet for each unit of competency which includes:

- A full description of all assessment tasks for the unit of competency
- Assessment instructions for each unit of competency
- Assessment resources for each unit of competency
- Details about when assessment will occur
- Details about assessment submission

There are a variety of assessment methods used for this qualification including:

- Written questions
- Projects
- Case studies
- Role Plays

- Research
- Reports

You will be required to complete assessments in class and there may be a need for some work to be done as homework, however this is not expected to exceed 8 hours per week.

You will be advised by your trainer and assessor about the assessment requirements for each unit at the commencement of delivery for that unit. Submission of assessment tasks will be in person to the trainer/assessor or online via the student portal.

Unit Assessment

Results will be recorded as Acquired Competence AC (Ungraded) or NC. You must pass all assessment events, to successfully complete each unit.

Assessment for each unit will consist of;

Knowledge Assessment

You must successfully complete all written worksheets and

Portfolio Assessment

Completion of a series of practical tasks to be conducted in block release sessions on completion of the unit

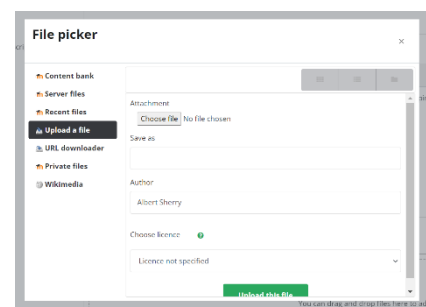
Completion of the Workplace Skills Record

Submitting your assessments

You must successfully complete all questions posed in each unit in order to be deemed competent.

Student Assessment Workbooks for each unit can be downloaded in a Word format and on completion, you are to retain a copy of your completed work and upload the completed assessment into the ASTMA Learner Management System for the corresponding unit.

Your Trainer Assessor will receive an email alert that your work has been uploaded for marking and will advise of your result within 14 working days



Assessment Outcomes

Each assessment task will be given an outcome of either Satisfactory (S) or Not Satisfactory (NS). You must complete all tasks for a unit satisfactorily to achieve an overall outcome of Competent (C) for that unit. If one or more of your tasks are assessed as Not Satisfactory, you will be given an overall outcome for the unit of Not Yet Competent (NYC). You can have 1 further attempt to complete the task and achieve a Satisfactory outcome. You will be given a timeframe for your resubmission and advised what you must include in your re-submission.

If, after the second attempt, you are still assessed as Not Satisfactory for a task, you will need to complete additional training and assessment to support you in achieving a Competent outcome. This may incur an additional fee for students as identified in the fees and charges information.

Reasonable adjustment in assessment

Some students may need modifications to assessments due to disability, illness or special considerations – this is called reasonable adjustment.

Reasonable adjustment can involve:

- Making training and assessment resources and methods more accessible e.g. providing learner workbooks in an audio format or on different coloured paper.
- Adapting physical facilities, environment and/or equipment e.g. setting up hearing loops.
- Making changes to the assessment arrangements e.g. more time allowed for assessments.
- Making changes to the way evidence for assessment is gathered e.g. written questions asked orally

Please speak to your assessor if you think that you may need an adjustment made. Note these adjustments are made at the discretion of your assessor based on your identified

Re-assessment arrangements

The Australian Sports Turf Managers Association policy allows you up to two attempts at each assessment, should you need it.

If your previous attempt was found not-satisfactory, the Assessor will have provided you with feedback as to what was inadequate.

Please take this feedback on board in preparing for and submitting a new attempt. You should communicate with your Assessor that you are resubmitting and arrange the best way to submit this.

Ensure your resubmission is cleared marked as a resubmission.

Appealing assessment decisions

If you do not agree with any assessment decision, you can lodge an assessment appeal. Please refer to the Complaints and Appeals section in the Student Handbook for information about how to lodge an appeal.

Student plagiarism, cheating and collusion

The Australian Sports Turf Managers Association has a no tolerance policy for plagiarism, cheating and collusion. Students are expected to act with integrity at all times and only submit work that is their own or that has been appropriately referenced and includes acknowledgements of all resource materials used in the preparing the work.

When you submit your assessments, you will be required to sign a declaration that the work provided is your own and that you have not cheated or plagiarised the work or colluded with any other student/s.

If you are found to have plagiarised, cheated or colluded, you will be given an opportunity to respond to the allegations. If you are found to have plagiarised, cheated or colluded, we will be required to take disciplinary action which is likely to require you to complete the assessment again.

Additional Support

All students will complete a language literacy and numeracy assessment upon enrolment to determine their learning support needs. All students will be provided with a range of learning support options and resources to help you achieve competency. Where additional support needs have been identified an *Individual Support Plan* will be developed which may include:

- Mentoring from trainers
- Additional classes, tutorials and workshops
- Online support and exercises for some courses
- Computer and technology support
- Referral to external support services
- Reasonable adjustment to assessments

Provision of additional support services will be provided where necessary to enable students to participate in the same way as any other person regardless of whether support services have been required.

Course Credit

Australian Sports Turf Managers Association can grant you credit towards your course for units of competency that you have already completed with another RTO or authorised issuing organisation. We can also grant you credit for subjects or units you have completed where equivalence can be established between the unit in your course, and the subject or unit you have completed.

There is no charge to apply for Credit.

To apply, fill in the Credit Application Form and submit it as part of your enrolment.

Please refer to your Student Handbook for more information on Course Credit.

Recognition of Prior Learning (RPL)

Recognition of Prior Learning (RPL) is a process where skills and knowledge that you have gained through work and life experience and other unrecognised training can be formally recognised.

Australian Sports Turf Managers Association has a process that has been structured to minimise the time and cost to applicants and provides a supportive approach to students wishing to take up this option. You should ideally apply for RPL at the time of enrolment, but you may also apply up to 2 weeks into your course.

During the entry process and interview stage Australian Sports Turf Managers Association will discuss with you the process and options for RPL. Suitability is often determined on how much experience you have in a certain area, your work history and previous training. If RPL is determined as a possibility for you, you will be provided with a kit that will guide you in working through each unit to determine relevant skills and experience and identify whether you would be able to provide the required evidence.

A trainer/assessor will be available to assist you throughout this process.

Please refer to your Student Handbook for more information on RPL.

Course Costs

Total Tuition Fee: Standard (Subsidised) \$5,520

Full fee \$22,600

Payment Plan

Subsidised

- Non-refundable enrolment deposit (prior to commencement) - \$520
- On commencement of course \$1000
- On completion of Stage 1 \$2000
- On completion of Stage 2 \$2000

Full Fee

- Non-refundable enrolment deposit (prior to commencement) - \$600
- Eleven (11) monthly payments of \$2000

RPL Costs

Application Fee - \$250

Charge per unit of competency - \$500

Nationally Recognised Training does not occur GST.

Students will only be eligible to receive their qualification if fees have been paid in full and all course requirements have been met.

Please refer to your Student Handbook for our Fees and Charges Policy.

Withdrawing from your studies

Students who decide to withdraw from their study are required to notify the ASTMA Administration office and their trainer/ assessor in writing using the Withdrawal/Refund Application Form.

Change of Address

Students who change address are required to notify the ASTMA Administration office and their trainer/ assessor in writing as soon as possible.

Proposed Program Stage 1

	No.	Unit Number	Unit Name	Start Date	End Date	Assessment due date
Stage 1 2023/24	1	AHCWHS301	Contribute to work health and safety processes	July 24 th 2023	August 29 th 2023	August 29 th 2023
	2	AHCMOM304	Operate machinery and equipment	July 24 th 2023	September 28 th 2023	September 28 th 2023
	3	ACMGEN314	Communicate effectively with clients and team members	September 5 th 2023	September 28 th 2023	September 28 th 2023
	4	FSKNUM023	Estimate measure and calculate measurements for work	October 17 th 2023	November 30 th 2023	November 30 th 2023
	5	AHCTRF311	Renovate sports turf	October 17 th 2023	November 30 th 2023	November 30 th 2023
	6	AHCTRF306	Prepare sports turf surfaces for play	6 th February 2024	April 4 th 2024	April 4 th 2024
	7	AHCSOL304	Implement soil improvements for garden and turf areas	30 th April 2024	June 20 th 2024	June 20 th 2024
	8	AHCPCM204	Recognise Plants	30 th April 2024	June 20 th 2024	June 20 th 2024

Certificate III in Sports Turf Management.

AHCWHS301 Contribute to Work Health and Safety Processes

Introduction

This unit of competency describes the skills and knowledge required to carry out enterprise work health and safety policies and procedures.

This unit is applicable to individuals. They typically work within clear reporting lines and procedures.

All work must be carried out to comply with workplace procedures and work health and safety and other relevant legislation and codes.

This unit applies to individuals who actively participate in the workplace safety system and work under broad direction and take responsibility for their own work. They work in a range of known contexts and complete routine activities.

NOTE: The terms 'occupational health and safety' (OHS) and 'work health and safety' (WHS) and occupational safety and health (OSH) are equivalent and generally either can be used in the workplace. In jurisdictions where the Model WHS Legislation has not been implemented RTOs are advised to contextualise the unit of competency by referring to the existing State and Territory OHS legislative requirements.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Apply work health and safety policies and procedures
- Assist in workplace hazard identification and risk control
- Observe safe practices during work operations
- Participate in arrangements for maintaining the health and safety of all people in the workplace

Activities & Assessment:

1. Completion of a series of four (4) Worksheets:

Students are required to consult with their workplace supervisor and complete a series of four worksheets to obtain workplace information on WHS Policy and Procedures

- **Worksheet 1:** Apply work health and safety policies and procedures
- **Worksheet 2:** Assist in workplace hazard identification and risk control
- **Worksheet 3:** Observe safe practices during work operations
- **Worksheet 4:** Participate in arrangements for maintaining the health and safety of all people in the workplace

2. Portfolio: Observe safe work practices during operations

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Emergencies: electrocution, fire, flood, chemical spills, storms, gases in confined spaces, gas leaks, serious injury associated with tractors, machinery and equipment, animals, vehicles, firearms, and grain suffocation.

Hazards: operation and maintenance (including powered tools), vehicles, noise, chemicals, gases, dust, manual handling, solar radiation, animals, damaged or broken structures, damaged or worn equipment, items blocking exits, poor surfaces, spillage and breakage.

Manual handling: moving, lifting, shovelling, loading materials, pulling, pushing, up-ending materials, hand tool use, storing materials at heights too high or low, bending, repetitious tasks, handling animals and plants.

Personal Protective Equipment: ear, eye and chemical protection, protective clothing, sunscreen lotion, gloves, safety harness, headgear.

Miscellaneous: PTO accidents, chemical poisoning and environmental damage, tractor roll-over, skin protection, machinery practices in turf, WHS Act and Regulations, Codes of Practice, audit, risk assessment, hazard policies and procedures, emergency policies and procedures, reporting procedures.

Certificate III in Sports Turf Management.

AHCMOM304 Operate Machinery and Equipment**Introduction**

This unit of competency describes the skills and knowledge required to prepare and operate machinery and equipment in a safe and controlled manner that is used principally in agriculture, horticulture, and conservation and land management work. This unit does not apply to chainsaws, tractors, vehicles or earth moving equipment.

The unit applies to individuals who operate machinery and equipment under broad direction, and take responsibility for their own work.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Prepare machinery and equipment for use
- Operate machinery and equipment
- Complete machinery and equipment operation

Activities & Assessment:**1. Completion of a series of three (3) Worksheets**

Students are required to consult with their workplace supervisor and complete a series of three worksheets based on preparing, operating and completing machinery and equipment operation.

Worksheet 1: Prepare machinery and equipment for use

Worksheet 2: Operate machinery and equipment

Worksheet 3: Check and complete machinery and equipment operation

2. Portfolio: Prepare, carry out maintenance and operate machinery and equipment

Students will be individually assessed for safe operation of at least 10 of the following machine types, including at least **five** of the turf specific machines referring to operators manuals where required. The assessment will include pre-start checks,

stop/start procedure, operation, adjustments, daily maintenance, clean and store, maintenance records and minor maintenance.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

Turf Specific

turf scarifier
sodcutter
turf roller
electric reel mower
motorised reel mower
aerator
out front rotary mower
bunker rake
top dresser
edger

Non Turf Specific

rotary mower
motorised spray equipment
utility vehicles
blower
implement
brush cutter/whipper-snipper
rotary hoe
trenching machine

Key Terms:

Standard operating procedures, Procedure sheets, Industry standards, Manufacturers specifications, Operators manual, Procedures and guidelines, WHS procedures, Oral and written procedures/contracts, Spray application log book/diary, Operation log book/diary, Licenses, Training requirements, Risk assessments.

Certificate III in Sports Turf Management.

ACMG315 Communicate effectively with clients and team members

Introduction

This unit of competency describes the skills and knowledge required to communicate effectively with clients, a supervisor, team members and industry representatives.

The unit applies to individuals who work in organisations in operational roles with some supervision.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Communicate effectively with clients and industry representatives
- Communicate with team
- Address constraints to communication
- Complete workplace documentation

Activities & Assessment:

1. Completion of a series of four (4) Worksheets:

Students are required to consult with their workplace supervisor and complete a series of four worksheets based on showing effective communication with peers, clients, industry representatives

Worksheet 1: Communicate effectively with clients and industry representatives

Worksheet 2: Communicate with team

Worksheet 3: Address constraints to communication

Worksheet 4: Complete workplace documentation

2. Portfolio: Communicate effectively with team clients and industry representatives

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Certificate III in Sports Turf Management.

FSKNUM023 Estimate, measure and calculate measurements for work

Introduction

This unit describes the skills and knowledge to estimate and measure quantities, to convert units within the metric system and between metric and non-metric units, to calculate area and volume including compound shapes and to use Pythagoras' theorem.

This unit applies to individuals who need numeracy skills at Australian Core Skills Framework (ACSF) level 4 to undertake a vocational training pathway or workplace tasks.

This unit is designed for integration and contextualisation with vocational units to support achievement of vocational competency.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Estimate and make measurements for work
- Undertake mathematical calculations involving measurement
- Check and communicate results

Activities & Assessment:

1. Completion of a series of three (3) Worksheets

Students are required to consult with their workplace supervisor using mathematical formula to obtain measurements and complete three worksheets to obtain correct measurement for a variety of common workplace tasks

Worksheet 1: Extract and interpret complex workplace measurement information

Worksheet 2: Complete workplace measurement tasks

Worksheet 3: Communicate workplace measurement information

2. Portfolio

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Certificate III in Sports Turf Management.

AHCTRF311 Renovate Sports Turf

Introduction

This unit of competency describes the skills and knowledge required to implement renovation or remediation of a sports turf area for minor projects and seasonal renovations in the turf industry.

The unit applies to individuals who renovate sports turf under general direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Prepare to renovate turf
- Prepare renovation equipment
- Implement sports turf renovation
- Complete renovation activities

Activities and Assessment:

1. Completion of a series of four (4) Worksheets

Students are required to consult with their workplace supervisor and complete a series of four worksheets based on preparing, implementing and completing a sports turf renovation program at their worksite

Worksheet 1: Prepare to renovate turf

Worksheet 2: Prepare renovation equipment

Worksheet 3: Implement sports turf renovation

Worksheet 4: Complete renovation activities

2. Portfolio: Prepare, safely operate specialized renovation machinery and equipment and complete renovation activities

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Soils: Soil texture, Soil structure, Aggregation, Dispersion, Compaction, Infiltration rate, Drainage, Soil Textural Classification, Topsoil Amelioration, Liming Materials, Gypsum, Saturation, Waterlogging, Field Capacity, Aeration, Potassium, Available Water, Phosphorus, pH, Nitrogen, CEC, Organic matter, Sodic soils.

Grass Terminology: Cool season grass, Warm season grass, Turfgrass density, Turfgrass texture, Turfgrass uniformity, Monostand, Polystand, Thatch, Mat, Rootzone, Pre-germinated seed, Seed dormancy, Seed viability, Hydro seeding.

Machinery: Scarifier, Hollow tyne corer, Driller, Vertidrain, Hydroject, Topdresser.

Certificate III in Sports Turf Management.

AHCTRF306 Prepare Sports Turf Surfaces for Play

Introduction:

This unit of competency describes the skills and knowledge required to plan, prepare the turf and mark out the sports surfaces ready for play, complying with the rules and regulations of the sport.

The unit applies to individuals who prepare turf surfaces for play under general direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Plan and prepare the site for sports surface preparation activities
- Select and prepare equipment and machinery required for sports surface preparation
- Use machinery and equipment to prepare sports turf playing surface
- Finalise preparation of playing surface

Activities & Assessment:

1. Completion of a series of four (4) Worksheets based on various playing surfaces maintained in the sports turf industry.

Worksheet 1: Prepare and Plan the Site for Sports Turf Preparation Activities

Worksheet 2: Select and Prepare Equipment and Machinery required for Sports Turf Preparation

Worksheet 3: Use machinery and equipment to prepare sports turf playing surface

Worksheet 4: Finalise preparation of playing surface

2. Portfolio: Prepare, check operate and maintain machinery, tools and equipment used in the preparation of sports turf playing surfaces

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Cricket:

Return Crease, Popping Crease, Bowling Crease, Protected area, Pitch, Wicket Table, Fielding Positions, Stumps, bails, Boundary, Clegg Impact Hammer.

Golf:

Par, Collar, Out of Bounds, Apron, Ground Under Repair (GUR), Surrounds, Obstruction, Fairway, Divot

Carriageway, Plug mark, Rough, Stimp meter, Tee Markers, Dew Whip, Course rating, Hole, Pin / Flag, Green, Casual Water, Tee, Lateral Water, Hazard

Bowls:

Green, Rink, Ditch, Mat, Jack- Kitty, Centre Line, Boundary Peg, Bowl, Bias, Jack Marker, Draw, Long End, Short End, Fast Green, Timing Ramp, Rink Number, Slow Green

Other:

Penetrometer, Thatch, turfgrass quality, density and texture, reel mowing, rotary mowing, renovation, aeration, compaction, dethatching.

Resources:

Turf doctor, Stimp metre, Level lawn, Line marker, Hole cutter, Clegg Hammer, Back Pack-Sprayer, Soil moisture metre

Certificate III in Sports Turf Management.

AHCSOL304 Implement Soil Improvements for Garden and Turf Areas

Introduction

This unit of competency describes the skills and knowledge required to collect and test soil samples for their physical and chemical characteristics and take corrective action to improve the soil for garden beds and turf areas.

The unit applies to individuals who carry out soil improvements under general direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Prepare and collect soil samples for testing
- Determine physical characteristics of sample
- Determine chemical characteristics of sample
- Prepare soils for planting or replanting

Activities & Assessment:

1. Completion of a series of four (4) Worksheets Prepare and collect soil samples, determine physical and chemical properties of soil and prepare surface for planting.

Worksheet 1: Prepare and collect soil samples for testing

Worksheet 2: Determine physical characteristics of sample

Worksheet 3: Determine chemical characteristics of sample

Worksheet 4: Prepare soils for planting or replanting

2. Portfolio: Prepare, collect soil samples and undertake soil testing

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Physical characteristics of soils: Soil Sampling and Testing, Soil Texture and Structure, Organic Matter, Soil Colour, Topsoil, Drainage, Field Capacity, Wilting Point, Permanent Wilting Point, Water Retention Infiltration, Percolation.

Chemical characteristics of soils: Cations Anions, Cation Exchange Capacity, Soil pH, Agricultural Lime, Dolomite, Elementary Sulphur, Soil Salinity, Electrical Conductivity, Carbonates, Nutrients, Fertilisers.

Biological properties of soils: macro-organisms, micro organisms, mulch, leaf litter.

Tools: Hole changer, soil auger, soil probe, sampling tube, pH Kit, Soil pH meter, Soil Salinity (Electronic Conductivity) meter, sampling bags, distilled water.

Certificate III in Sports Turf Management.

AHCPM204 Recognise Plants

Introduction:

This unit of competency describes the skills and knowledge required to recognise commonly encountered plants, including desired species and weeds, and to document and confirm plant identification.

The unit applies to individuals who recognise plants under general supervision with limited autonomy or accountability.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Prepare for plant recognition
- Recognise specified plants
- Identify plants

Activities & Assessment:

1. Completion of a series of three (3) Worksheets

Students are required to consult with their workplace supervisor and complete a series of three worksheets to enable students to recognise and identify common plant specimens

Worksheet 1: Prepare for plant recognition

Worksheet 2: Recognise specified plants

Worksheet 3: Identify plants

2. Portfolio: Identify a variety of plants to common name

Students are to demonstrate skills required to identify plants using both visual and available resources and seek advice from the workplace supervisor or trainer and assessor

Key Terms:

Monocotyledon, dicotyledon, roots, leaves, meristematic, respiration, photosynthesis, osmosis, transpiration, stomata, phloem, xylem, rhizomes, stolons, runners, tillers, crown, flowers, ligules, auricles, vernalization, cool season, warm season, Perennial, Annual, sexual propagation, asexual propagation, clones, hybrid, variety, cultivar, selection, node

Proposed Program Stage 2 2024/25

Stage 2 2024/25	No.	Unit Number	Unit Name	Start Date	End Date	Assessment Due Date
	9	AHCPMG301	Control weeds	July 21 st 2024	September 26 th 2024	August 12 th 2023
	10	AHCPMG302	Control plant pests, diseases and disorders	July 21 st 2024	September 26 th 2024	August 16 th 2024
	11	AHCCHM304	Transport and store chemicals	October 11 th 2024	November 21 st 2024	November 21 st 2024
	12	AHCCHM307	Prepare and apply chemicals to control pest, weeds and diseases	October 11 th 2024	November 21 st 2024	November 21 st 2024
	13	AHCTRF310	Monitor turf health	February 5 th 2025	April 11 th 2025	April 11 th 2025
	14	AHCTRF308	Establish turf	February 5 th 2025	April 11 th 2025	April 11 th 2025
	15	AHCIRG346	Operate pressurised irrigation systems	May 7 th 2025	June 19 th 2025	June 19 th 2025
	16	AHCWRK311	Apply environmentally sustainable work practices	May 7 th 2025	June 19 th 2025	June 19 th 2025

Note: Sequencing of units is subject to change

Certificate III in Sports Turf Management

AHCPMG301 Control Weeds

Introduction

This unit of competency describes the skills and knowledge required to plan and coordinate weed control activities using appropriate strategies to provide effective, economic control while minimising environmental damage.

The unit applies to individuals who work under broad direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

State or territory licensing, legislative or certification requirements apply in some jurisdictions.

Major areas of content are;

- Assess weed infestation
- Plan weed control measures
- Implement weed control
- Monitor weed control measures

Activities & Assessment:

1. **Completion of a series of four (4) Worksheets:** Students will need to show competence in a series of practical tasks and record activities in four worksheets based on performance criteria and assessment requirements of the unit.

- **Worksheet 1:** Assess weed infestation
- **Worksheet 2:** Plan Control Measures
- **Worksheet 3:** Implement Weed Control
- **Worksheet 4:** Monitor Control Measures

2. **Portfolio:** Plan and implement and monitor weed control measures, identify a variety of important weeds of turf and horticulture

You are required to perform this exercise either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

EPA management systems, Industry Code of Practice, Safety Data Sheets, Product Labels, Safework Guidelines, WH&S Procedures, Spray Application Log Book/Diary, Cultural Practices Log Book/Diary, Chemical Applicators Licenses, Risk Assessments

Certificate III in Sports Turf Management

AHCPMG302 Control Plant Pest Diseases and Disorders

Introduction

This unit of competency describes the skills and knowledge required to identify and assess the effect to plants of plant pests, diseases and disorders and plan and coordinate control measures.

The unit applies to individuals who work under broad direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

State or territory licensing, legislative or certification requirements apply in some jurisdictions.

Major areas of content are;

- Assess pests, disease and disorders
- Plan the implementation of plant pests, diseases and disorder control measures
- Implement plant pests, diseases and disorder control measures
- Monitor plant pests, diseases and disorder control methods

Activities & Assessment:

1. Completion of a series of four (4) Worksheets:

Worksheet 1: Assess Pests and Disease Infestation

Worksheet 2: Plan the Implementation of Management Measures

Worksheet 3: Implement Management Measures

Worksheet 4: Monitor Management Methods

2. Portfolio: Observe safe work practices during operations

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

EPA management systems, Industry Code of Practice, Material Safety Data Sheets, Product Labels, Workcover Guidelines, WH&S Procedures, Spray Application Log Book/Diary, Cultural Practices Log Book/Diary, Chemical Applicators Licenses, Risk Assessments

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AHCCHM304 Transport and Store Chemicals

Introduction

This unit of competency describes the skills and knowledge required to safely handle, transport and store chemicals. The unit applies to individuals who work under broad direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems. State or territory licensing, legislative or certification requirements apply in some jurisdictions.

Major areas of content are;

- Prepare to handle and transport chemicals
- Handle and transport chemicals
- Store chemicals in the workplace
- Record storage details

Activities & Assessment:

1. Completion of a series of four (4) Worksheets:

Worksheet 1: Prepare to Handle and Transport Chemicals

Worksheet 2: Handle and Transport Chemicals

Worksheet 3: Store Chemicals in the Workplace

Worksheet 4: Record Storage Details

2. Portfolio: Observe safe work practices during operations

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Safety Data Sheets, Spill response kits, Bunding, Ventilation, Fire extinguishers, Hazard Risk assessment, cross contamination, chemical trespass, Personal Protective equipment, Acute poisoning, Chronic poisoning, Secondary poisoning, off-target damage, container legislation, emergency showers and eye wash, soil residues, wash down areas, rinse-ate, waste sumps, dispensing units.

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AHCCHM307 Prepare and Apply Chemicals to Control Pest, Weeds and Diseases

Introduction

This unit of competency describes the skills and knowledge required to safely prepare and apply chemicals for the control of pests, weeds and diseases, using general application equipment.

The unit applies to individuals who work under broad direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

State or territory licensing, legislative or certification requirements apply in some jurisdictions.

Major areas of content are:

- Determine the need for chemical use and prepare an application plan
- Prepare chemical mixes
- Calibrate application equipment
- Apply chemicals
- Clean up equipment and complete records

Activities & Assessment:

1. Completion of a series of five (5) Worksheets:

- **Worksheet 1:** Determine the need for chemical use and prepare an application plan
- **Worksheet 2:** Prepare chemical mixes
- **Worksheet 3:** Calibrate application equipment
- **Worksheet 4:** Apply chemicals
- **Worksheet 5:** Clean up equipment and complete records

2. Portfolio: Prepare application equipment, chemical mixes calibrate hand held and boomspray (powered) equipment, apply chemicals

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms

Safety Data Sheets (SDS), chemical label, dangerous goods classification, poison schedule, calibration, WH&S, registration, Wind, humidity, rain, chemical spills, poisoning, health checks, insecticides, fungicides, herbicides, bactericides, algacides, nematocides, Personal Protective Equipment, Integrated Pest Management, Drift, knapsacks, booms, CDA, wick applicators, respirators, spot spraying, face shields, nozzles, drift, Modes of action, with holding periods, re-entry period, drench., EPA management systems, Industry Code of Practice, Workcover guidelines, WH&S procedures, Spray application log book/diary, Cultural practices log book/diary, Chemical Applicators Licenses, Risk assessments.

Certificate III Sports Turf Management

AHCTRF310 Monitor Turf Health

Introduction

This unit of competency describes the skills and knowledge required to monitor the health and condition of sports turf playing surfaces.

The unit applies to individuals who monitor turf health under general direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content area;

- Prepare for monitoring activities
- Assess the health of turf grass area
- Monitor and report turf health and condition

Activities and Assessment

1. Completion of a series of three (3) Worksheets:

Worksheet 1: Prepare for Monitoring Activities

Worksheet 2: Assess the Health of Turfgrass Area

Worksheet 3: Monitor and Report on Health Condition

2. Portfolio: Assess plant health, monitor turf condition, Identify variety of turfgrass plants to botanic name

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms

Certificate III Sports Turf Management

AHCTRF308 Establish Turf

Introduction

This unit of competency describes the skills and knowledge required to establish turf by sowing, turf laying, sprigging and chaffing or stolonisation in sporting, public recreational open space, commercial and residential sites.

The unit applies to individuals who establish turf under general direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Develop a turf establishment plan
- Prepare to establish a new turf area
- Prepare soil and plant turf
- Maintain turf establishment
- Report and repair areas of damaged turf

Activities and Assessment

1. Completion of a series of five (5) Worksheets:

Worksheet 1: Develop a sports turf establishment plan

Worksheet 2: Prepare to establish a new turf area

Worksheet 3: Prepare soil and plant turf

Worksheet 4: Maintain turf establishment

Worksheet 5: Report and repair areas of damaged turf

2. Portfolio: Sample soil, plant and maintain turf. Identify variety of turfgrass species to common name

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Hydro-seed, sod quality, shovels, level-lawn, rollers, rotary hoe, tiller, basic grass structural terms, asexual propagation, sexual propagation, vegetative propagation, sprigging, sod cutter, compaction tests, pH, salinity, soil testing, soil texture, soil type, NPK, ameliorant and amendments, pre-emergent and post-emergent pesticides, soil cultivation, over sprigging/overplanting, oversewing, damping-off, pre and post-establishment procedures, seed dormancy, certified seed, seed drill, cool-season grasses, warm-season grasses.

Certificate III in Sports Turf Management

AHCIRG346 Operate Pressurised Irrigation Systems

Introduction

This unit of competency describes the skills and knowledge required to pre-start check, inspect, start up, operate, monitor and shut down pressurised irrigation systems.

The unit applies to individuals who operate pressurised irrigation systems under broad direction and take responsibility for their own work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Carry out pre-start checks
- Inspect and operate the system
- Monitor irrigation system performance
- Shut down irrigation system

Activities & Assessment:

1. Completion of a series of four (4) Worksheets:

- **Worksheet 1:** Carryout Prestart Checks
- **Worksheet 2:** Inspect and Operate the System
- **Worksheet 3:** Monitor Irrigation System Performance
- **Worksheet 4:** Shutdown Irrigation System

2. Portfolio: Inspect, operate and monitor system performance

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Available Moisture, Backflow Prevention, Ball valve, Crop Factor, Electrofusion, Evaporation, Evapotranspiration, Flow Rate, Friction Head, Infiltration rate, Micron, Pipe class, Polyethylene, Precipitation Rate, PVC, Risers, Solenoid valve, Solvent Weld, Stop cock.

Certificate III in Sports Turf Management

AHCWRK309 Apply Environmentally Sustainable Work Practices**Introduction**

This unit of competency describes the skills and knowledge required to apply environmentally sustainable work practices. This unit applies to individuals who work under broad direction and take responsibility for their own work including limited responsibility for the work of others.

Work routines meet organisational and compliance requirements for ethical handling and welfare of animals, environmental sustainability, work health and safety, and biosecurity appropriate to the work role.

No licencing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Identify current practices in relation to resource usage and sustainability
- Contribute to the review of workplace environmental sustainability practices
- Apply improvement strategies
- Record and report on work practices

Activities & Assessment:**1. Completion of a series of four (4) Worksheets:**

- **Worksheet 1:** Identify current practices in relation to resource usage and sustainability
- **Worksheet 2:** Contribute to the review of workplace environmental sustainability practices
- **Worksheet 3:** Apply improvement strategies
- **Worksheet 4:** Record and report on work practices

2. Portfolio: Identify and apply environmentally sustainable work practices

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Proposed Program Stage 3 2025/26

Stage 3 2025/26	No.	Unit Number	Unit Name	Start Date	End Date	Assessment Due Date
	17	AHCTRF307	Construct turf playing surfaces	February 17 th 2025	May 23 rd 2025	May 23 rd 2025
	18	AHCWRK305	Coordinate worksite activities	February 17 th 2025	May 23 rd 2025	May 23 rd 2025
	19	AHCDRG305	Install drainage systems	February 17 th 2025	May 23 rd 2025	May 23 rd 2025
	20	AHCIRG347	Maintain pressurised irrigation systems	May 26 th 2025	August 22 nd 2023	August 22 nd 2023
	21	AHCIRG345	Install pressurised irrigation systems	May 26 th 2025	August 22 nd 2023	August 22 nd 2023
	22	AHCSOL406	Sample soils and interpret results	August 25 th 2025	November 21 st 2025	November 21 st 2025
	23	AHPCM305	Implement a plant nutrition program	August 25 th 2025	November 21 st 2025	November 21 st 2025

Note: Sequencing of units is subject to change

Certificate III in Sports Turf Management.

AHCWRK305 Coordinate Worksite Activities

Introduction

This unit of competency describes the skills and knowledge required to coordinate work site activities for small scale projects. This unit applies to individuals who work under broad direction and take responsibility for their own work including limited responsibility for the work of others. They use discretion and judgement in the selection and use of available resources. No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Major areas of content are;

- Prepare for work site activities
- Organise resources
- Coordinate and report on activities

Activities & Assessment:

1. **Completion of a series of three (3) Worksheets:** Students will need to show competence in a series of practical tasks and record activities in three worksheets based on performance criteria and assessment requirements of the unit.

- **Worksheet 1:** Prepare for work site activities
- **Worksheet 2:** Organise Resources
- **Worksheet 3:** Coordinate and report on activities

2. **Portfolio:** Prepare and co-ordinate work activities, organize resources and report on activities

You are required to perform this exercise either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

EPA management systems, Industry Code of Practice, Safety Data Sheets, Product Labels, Safework Guidelines, WH&S Procedures, Spray Application Log book /Diary, Cultural Practices Log Book/Diary, Chemical Applicators Licenses, Risk Assessments

Certificate III in Sports Turf Management

AHCTRF307 Construct Turf Playing Surfaces

Introduction

This unit of competency describes the skills and knowledge required to construct the soil profile for the establishment of high-performance sports and recreational turf for new or complete renovation projects in sporting, commercial and public recreational spaces.

The unit applies to individuals who construct turf playing surfaces under general direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Plan and prepare for construction activities
- Survey and peg out levels for construction site
- Prepare for construction work

Activities & Assessment:

1. Completion of a series of three (3) Worksheets:

- **Worksheet 1:** Plan and prepare for construction activities
- **Worksheet 2:** Survey and peg out levels for construction site
- **Worksheet 3:** Prepare for construction work

2. Portfolio: Undertake site and soil survey, excavate soil, install drainage and soil profile

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

EPA management systems, Industry Code of Practice, Material Safety Data Sheets, Product Labels, Workcover Guidelines, WH&S Procedures, Spray Application Log Book/Diary, Cultural Practices Log Book/Diary, Chemical Applicators Licenses, Risk Assessments

Certificate III in Sports Turf Management

AHCDRG305 Install Drainage Systems

Introduction

This unit of competency describes the skills and knowledge required to prepare, coordinate, undertake and complete surface and subsurface drainage system installation.

The unit applies to individuals who install drainage systems under broad direction and take responsibility for their own work.

No licensing, legislative or certification requirements to apply to this unit at the time of publication.

Major areas of content are;

- Prepare for drainage system installation activities
- Coordinate installation work
- Prepare the site for installation of drainage system
- Undertake installation of drainage system
- Complete installation of drainage system

Activities & Assessment:

1. Completion of a series of three (3) Worksheets:

Worksheet 1: Prepare for drainage system installation activities

Worksheet 2: Coordinate installation work

Worksheet 3: Drainage specifications

2. Portfolio: Prepare install and complete drainage system

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Saturation, Field capacity, Compaction, Porosity, Infiltration rate, Percolation rate, Moisture retention, Water table, Black layer, Anaerobic, Thatch, Surface drainage, Sand slit drainage, Perched water table, Flow rates, Permeability

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AHCIRG345 Install Pressurised Irrigation Systems**Introduction**

This unit of competency describes the skills and knowledge required to organise resources, set out and prepare an irrigation installation site and install, commission and complete pressurised irrigation system installation.

The unit applies to individuals who install pressurised irrigation systems under broad direction and take responsibility for their own work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Organise resources for installation work
- Set out and prepare site
- Install irrigation components
- Commission irrigation system
- Complete installation work

Activities & Assessment:**1. Completion of a series of five (5) Worksheets:**

- **Worksheet 1:** Organise resources for installation work
- **Worksheet 2:** Set out and prepare site
- **Worksheet 3:** Install irrigation components
- **Worksheet 4:** Commission irrigation system
- **Worksheet 5:** Complete installation work

2. Portfolio: Set out site, install, commission and complete irrigation installation

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms

Available Moisture, Backflow Prevention, Ball valve, Crop Factor, Electrofusion, Evaporation, Evapotranspiration, Flow Rate, Friction Head, Infiltration rate, Micron, Pipe class, Polyethylene, Precipitation Rate, PVC, Risers, Solenoid valve, Solvent Weld, Stop cock.

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AHCIRG347 Maintain Pressurised Irrigation Systems

Introduction

This unit of competency describes the skills and knowledge required to interpret a maintenance program, inspect and maintain pressurised irrigation systems, and record and report maintenance activities.

The unit applies to individuals who maintain pressurised irrigation systems under broad direction and take responsibility for their own.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Major areas of content are;

- Interpret a pressurised irrigation maintenance program
- Inspect an irrigation system
- Carry out periodic system maintenance
- Complete and record maintenance activities

Activities and Assessment

1. Completion of a series of three (3) Worksheets:

- **Worksheet 1:** Interpret a pressurised irrigation maintenance program
- **Worksheet 2:** Inspect an irrigation system
- **Worksheet 3:** Carry out periodic system maintenance
- **Worksheet 4:** Complete and record maintenance activities

2. Portfolio: Inspect, maintain and monitor system performance

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms

Available Moisture, Backflow Prevention, Ball valve, Crop Factor, Electrofusion, Evaporation, Evapotranspiration, Flow Rate, Friction Head, Infiltration rate, Micron, Pipe class, Polyethylene, Precipitation Rate, PVC, Risers, Solenoid valve, Solvent Weld, Stop cock.

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AHCSOL406 Sample Soils and Interpret Results

Introduction

This unit of competency describes the skills and knowledge required to take a soil sample and interpret the test results.

This unit applies to individuals whose job role includes undertaking soil or growing media sampling and interpreting the results as a foundation for further horticultural operations such as nutrition programs and irrigation scheduling.

This 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. All work is carried out to comply with workplace procedures.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Major areas of content are;

- Prepare for soil sampling
- Determine soil characteristics by performing soil sampling
- Interpret results of soil analysis

Activities and Assessment

1. Completion of a series of five (5) Worksheets:

- **Worksheet 1:** Prepare for soil sampling
- **Worksheet 2:** Determine soil characteristics by performing soil sampling
- **Worksheet 3:** Interpret results of soil analysis

2. Portfolio: Prepare, test and interpret soil samples

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Soils: Soil texture, Soil structure, Aggregation, Dispersion, Moisture retention, Compaction, Infiltration rate, Drainage, Sub-surface drainage, Clay soil, Loamy soil, Sandy soil, Soil Textural Classification, Topsoil Amelioration, Liming materials, Gypsum, Particle size analysis (mechanical sieve analysis), Saturation, Waterlogging, Field Capacity, Aeration, Potassium, Wilting Point, Oven Dry, Capillary Pores, Non-capillary pores, Hygroscopic Water, Available Water, Phosphorus, pH, Nitrogen, CEC, EC, Nematodes, Black Layer.

Tools: Hole changer, core sampler, soil profiler, auger, sampling tube, packaging needs – paper/plastic bags, pH/salinity/moisture meter, infiltrometer.

Sampling methodology: Random, representative, sub-sample.

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AHCPCM305 Implement a Plant Nutrition Program

Introduction

This unit of competency describes the skills and knowledge required to monitor and control the nutritional requirements of and applications to plants across a range of situations and environments.

It applies to individuals who take responsibility for their own work and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources. All work is carried out to comply with workplace procedures.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Major areas of content are;

- Prepare for implementation of the plant nutrition program
- Monitor soil pH
- Determine nutritional problems in plants
- Prepare to use fertilisers
- Prepare application equipment
- Apply specific products at appropriate rates

Activities & Assessment:

2. Completion of a series of four (4) Worksheets:

- **Worksheet 1:** Prepare for implementation of the plant nutrition program
- **Worksheet 2:** Identify and assess soil growing media characteristics
- **Worksheet 3:** Determine nutritional problems in plants
- **Worksheet 4:** Prepare to use fertilisers
- **Worksheet 5:** Prepare application equipment
- **Worksheet 6:** Apply specific products at appropriate rates

2. Portfolio: Apply a variety of fertilisers, Dry, Soluble, Organics, Non Organics, Ameliorants, based on results of soil and plant health tests

You are required to perform a series of tasks either in the workplace or in a simulated workplace environment. You are to carry this exercise out as you would under normal workplace situations.

A detailed list of observable criteria is provided in the Student Assessment Workbook on which the assessor will need to see you perform.

You will need to obtain permission from your supervisor and the client whose premises you will be visiting before carrying out this assessment task.

Key Terms:

Soil properties, pH, soil buffering capacity, cation, salinity, soil ameliorants, compound fertilisers, water soluble, slow and controlled release, foliar uptake, nutrient leaching, nutrient loading.