

RTC2706A**Unit Descriptor****Unit Sector****Apply chemicals under supervision**

Apply chemicals under supervision

No sector assigned

ELEMENT	PERFORMANCE CRITERIA
1. Follow instructions to check and maintain application and personal protective equipment	1.1 Pre and post operational checks and maintenance on application equipment are carried out according to manufacturers specifications and enterprise procedures 1.2 Application and personal protective equipment are prepared and adjusted for use appropriate to the situation and in accordance with Occupational Health and Safety requirements 1.3 Instructions are followed to identify and maintain damaged, non-functioning or worn equipment 1.4 Occupational Health and Safety hazards are identified and reported to the supervisor
2. Use application and personal protective equipment	2.1 Chemical label is interpreted 2.2 Application and personal protective equipment appropriate to the task are recognised and used, maintained and stored according to enterprise procedure and Occupational Health and Safety requirements 2.3 Measurement and decanting of substances comply with directions 2.4 Safe working practices relevant to the situation are followed 2.5 Procedures in the event of a chemical spill are identified and followed
3. Apply chemicals	3.1 Hazards are identified and associated risks recognised 3.2 Requirements for application equipment to accurately and effectively apply the required dose of the chemical to the target are followed 3.3 Safe working practices relevant to the situation are followed
4. Follow instructions to empty and clean equipment and containers according to directions	4.1 Instructions for clean-up are identified 4.2 Equipment and clean up methods using appropriate tools are followed 4.3 Instructions for disposal of containers and unused chemicals or biological agents are identified
5. Complete chemical records	5.1 Chemical inventory is recorded as instructed and as required by regulations 5.2 Chemical application details are reported as instructed and as required by regulations
6. Transport, handle and store chemicals according to instructions and legislative requirements	6.1 Transport, handling and storage requirements for chemicals used are recognised and followed 6.2 Requirements for storage of chemicals at the workplace are recognised and followed

KEY COMPETENCIES

What processes should be applied to this competency standard? There are a number of processes that are learnt throughout work and life, which are required in all jobs. They are fundamental processes and generally transferable to other work functions. Some of these are covered by the key competencies, although others may be added. The questions below highlight how these processes are applied in this competency standard. Following each question a number in brackets indicates the level to which the key competency needs to be demonstrated where 0 = not required, 1 = perform the process, 2 = perform and administer the process and 3 = perform, administer and design the process.

Key Competency	Example of Application	Performance Level
Communicating ideas and information	Information about chemicals and how they will be applied and recorded may be communicated to work colleagues or the supervisor	1
Collecting analysing and organising information	Information may be collected and analysed from chemical labels, Material Safety Data Sheets, operator manuals or from Codes of Practice and advisory materials outlining regulations relevant to chemical use	1
Planning and organising activities	Recognising and using equipment, application and cleaning up of chemicals will require coordination of activities	1
Working with others and in teams	Applying chemicals with others in workplace or in conjunction with other team functions	1
Using mathematical ideas and techniques	Correctly measuring volume of chemical to apply, recording information and working out time periods before work can continue in the area	1
Solving problems	Taking action concerning faulty equipment may require problem solving	1
Using technology	Recording information may require technology to be used	1

RANGE STATEMENT

Pre and post operational checks

may be made to

- weather conditions, eg, wind
- nozzles
- hoses
- regulators/gauges
- respirator cartridges
- drench
- protective clothing and equipment

Application equipment	may include • Knapsacks or hand held pneumatic sprayers • drench guns • spot on applicators • syringes • other equipment relevant to the workplace
Personal protective equipment	may include • boots • overalls • chemical resistant gloves • aprons • face shields • respirators or hats
Chemicals	may include • herbicides • insecticides • fungicides • algaecides • growth regulators • growth promotants • bio-agents or vaccines • excludes application of S6 and S7 chemicals
Safe working practices	may include • procedures for handling, transporting and storing chemicals • selecting and using personal protective clothing and equipment • safe operation of machinery and equipment • safe procedures for applying chemicals and following manufacturers instructions
Legislation or regulations	may include • Pesticides Acts • Occupational Health and Safety Acts and associated Hazardous Substances Regulations / Codes of Practice • Dangerous Goods Acts • Poisons Schedules or Protection of the Environment Acts
Procedures in the event of a spill	may include, according to the label, • Material Safety Data Sheets (MSDS) or legislation

Hazards	will be listed • on labels and the Material Safety Data Sheets for the chemical concerned and may include • flammability • toxicity • health hazards • damage to non-target organisms • environmental damage or residues in food or feedstuffs
Tools	may include • hand tools • measuring jugs and cylinders • scales • syphoning equipment • drum rinse • batching tank
Application details	such as • time • date • quantity and type of chemical • weather • application equipment • host and pest • accidents or dangerous occurrences may be recorded or must be recorded where required by legislation
The sport and recreation industry	covers • industry sectors of community recreation, fitness, outdoor recreation and sport • significant roles played by activity organisations, industry peak bodies, professional organisations • large volunteer base • high turnover of volunteers • high levels of part time and casual employment • irregular working hours • relatively few professional positions • workforce employed mostly in operational positions • mainly small business or self-employed personnel • slow to take up technology • over 2/3 of the sport and recreation industry have no formal/recognised qualifications • significant reliance upon industry credentials and involvement in the activity itself

EVIDENCE GUIDE

Critical aspects of evidence to be considered

- Assessment must confirm sufficient knowledge apply chemical under supervision
- Assessment of performance should be over a period of time covering all categories from the Range Statements applicable to the learner's work environment
- In particular, assessment must confirm the ability to
 - use the correct equipment
 - apply the chemical correctly
 - record application
 - identify safety hazards and how to avoid them
 - interpret and follow directions
- transfer use of chemicals in one workplace to another workplace, eg, if a chemical is applied under close supervision on a property growing grain crops, it should be evident that a chemical could be applied on a property where fruit is grown following induction to the new workplace

Interdependent assessment of units

- This unit must be assessed after attainment of competency in the following unit(s)
 - Nil
- This unit must be assessed in conjunction with the following unit(s)
 - Nil
- For the purpose of integrated assessment, this unit may be assessed in conjunction with the following unit(s)
 - Nil

Required knowledge and skills

- Required knowledge
 - Environmental effects of selected chemicals and how to minimise damaging effects of chemicals
 - Different broad chemical types, eg, insecticides, herbicides and fungicides and their mode of action symbols on the label
 - Principles of Integrated Pest Management
 - Paths of entry of poisons into the body and methods of limiting exposure
 - Methods of minimising risk during application
 - Personal protective equipment and how, when and why it should be used and stored
 - Maintenance of personal protective equipment
 - Relevant State or territory legislation, regulations and Codes of Practices with regard to hazardous substances of the use of chemicals
 - Occupational Health and Safety concerning personal safety and safety of others in the workplace
 - Use of chemicals as one tool of pest management
 - Possible effects on health of bystanders/public in addition to applicators
 - Weather conditions and means of assessing them in line with risks, and recognising when they become unsuitable for application to continue
 - Correct wearing/fit of personal protective equipment
- Required skills
 - Work using a variety of chemical application tools and pieces of equipment that are suitable for the particular application task using safe and environmentally responsible work practices
 - Accurately interpret labels, record relevant information and measure application amounts
 - Respond to emergencies and apply first aid in the event of pesticide poisoning

Resource implications

- Physical resources - assessment of this competency requires access to
 - personal protective equipment
 - tools
 - appropriate documentation and resource normally used in the workplace
- Human resources - assessment of this competency will require human resources consistent with those outlined in the Assessment Guidelines. That is, assessors (or persons within the assessment team) should
 - be competent in this unit
 - be current in their knowledge and understanding of the industry through provision of evidence of professional activity in the relevant area
 - have attained the National Competency Standards for Assessment: BSZ401A, BSZ402A and BSZ403A

Consistency in performance

- Competence in this unit must be assessed over a period of time in order to ensure consistency of performance over the Range Statements and contexts applicable to the work environment

Context for assessment

- This unit of competency must be assessed in the context of a sport or recreation activity. For valid and reliable assessment the sport or recreation activity should closely replicate the work environment. the environment should be safe with the hazards, circumstances and equipment likely to be encountered in a real workplace
- Assessment of this unit of competence will usually include observation of processes and procedures, oral and/or written questioning on required knowledge and skills and consideration of required attitudes
- Where performance is not directly observed and/or is required to be demonstrated over a "period of time" and/or in a "number of locations", any evidence should be authenticated by colleagues, supervisors, clients or other appropriate persons

Essential Assessment Information

There is **essential information about assessing this competency standard for consistent performance and where and how it may be assessed** , in the Assessment Guidelines for this Training Package. All users of these competency standards must have **access** to the **Assessment Guidelines** . Further advice may also be sought from the relevant **sector booklet** .