

RTC3705A
Unit Descriptor
Unit Sector

Transport, handle and store chemicals

Transport, handle and store chemicals

No sector assigned

| ELEMENT | PERFORMANCE CRITERIA |
|---|---|
| 1. Transport and handle chemicals and biological agents | 1.1 Transport methods according to label and Material Safety Data Sheets (MSDS) are identified and confirmed to safely transport the chemical 1.2 Risks involved in transport and handling are identified and minimised 1.3 Personal Protective Equipment(PPE) is used to transport and handle chemicals where required 1.4 Requirements for safe working procedures and legislation are recognised and followed during transport 1.5 Procedures and risk control measures are in place and followed in the event of a spill or accident 1.6 Reports of injury or poisoning associated with transport of chemicals are made to the manager |
| 2. Store chemicals in the workplace | 2.1 Storage method selected is appropriate for the chemical concerned 2.2 Occupational Health and Safety hazards in the storage area are identified and risks controlled 2.3 Storage method selected is appropriate to prevent contact with people or animals, and contamination of produce or the environment 2.4 Requirements to maintain storage area in accordance with directions and standards related to chemicals are defined 2.5 Safe working procedures for the storage of chemicals are defined |
| 3. Record storage details | 3.1 Chemical store inventory is maintained 3.2 Requirements to maintain storage area in accordance with Occupational Health and Safety and enterprise requirements 3.3 Records of injury or poisoning associated with transport and storage of chemicals are made and provided to the manager |

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 | About the transport arrangements for chemicals will need to be communicated to relevant authorities, supervisor and colleagues | 2 |
| Collecting analysing and organising information | About hazards and risks associated with transporting chemicals will be collected and analysed | 2 |
| Planning and organising activities | Transport and storage will need to occur without harming or interrupting other workplace activities | 2 |
| Working with others and in teams | Ensuring others are aware of transport of chemicals, and the hazards and control measures | 3 |
| Using mathematical ideas and techniques | Amounts of chemicals that can be safely transported in one load and how they can be stored | 2 |
| Solving problems | Difficulties with transport vehicles or the storage area may require problem solving | 2 |
| Using technology | The use of the storage manifest may require use of appropriate technology | 2 |

RANGE STATEMENT

Chemicals

may include

- insecticides
- fungicides
- herbicides
- bactericides
- algaecides
- biological
- nematocides
- rodenticides
- antimicrobial agents
- antelintics
- hormone growth promotants
- molluscicides and avicides
- a range of veterinary chemicals used to treat animals for disease

| | |
|----------------------------------|--|
| Risks | which that need to be minimised may include <ul style="list-style-type: none">• serious potential affects on worker's health during transport due to spillage or accident, poisoning• affects on public health through possible cross-contamination of produce• damage to the environment and the general public in the event of spillage or leakage during transport• lack of appropriate insurance coverage• chemicals flowing into drains, water sources or produce growing areas |
| Hazards and risks | may occur during transport of chemicals and may include <ul style="list-style-type: none">• contact with chemicals through the skin, inhalation or ingestion may cause acute poisoning, or chronic or long-term health effects<ul style="list-style-type: none">• these may occur through direct contact with a spilled chemical, or through contamination of food• Material Safety Data sheets (MSDS) provide health information• other hazards and risks include fire and explosion |
| Personal Protective Equipment | may include <ul style="list-style-type: none">• boots• overalls• chemical resistant gloves• aprons• face shields• respirators or hats |
| Hazards | will be listed on <ul style="list-style-type: none">• labels and the MSDS for the chemical concerned and may include<ul style="list-style-type: none">• flammability• toxicity• health hazards• damage to non-target organisms• environmental damage or residues in foods |
| Storage methods | may include <ul style="list-style-type: none">• on site or off site approved drums, bottles or containers |
| Equipment found in storage areas | may include <ul style="list-style-type: none">• specific dispensing and preparation equipment• recording of processes and use• associated safety equipment such as eyewash and emergency showers |

- Directions and standards may include
- directions on a label, in an operator's manual
 - on a Material Safety Data Sheets
 - in an industry standard, or from Codes of Practice
 - advisory material outlying legislation relevant to chemical use
 - regulations to be followed may include segregation, wash down areas and sumps
- Safe working procedures may include
- following manufacturers instructions
 - separating chemicals from passengers
 - observing loading instructions
 - ensuring liquids are top side up
 - ensuring chemicals are correctly labelled
 - ensuring no cross-contamination
 - safe driving and vehicle operation
 - ensuring load is not stacked too high
 - ensuring the chemicals are protected from the weather
 - ensuring the load is secure
- Legislation may include
- Pesticides Acts
 - Occupational Health and Safety Acts and associated Hazardous Substances Regulations / Codes of Practice
 - Dangerous Goods Acts
 - Poisons Schedule or Protection of the Environment Acts
- Procedures may include
- directions on labels
 - Material Safety Data Sheets
 - Occupational Health and Safety and environmental regulations or operator's manuals
 - may cover
 - cleaning the site
 - monitoring and protecting the environment where possible
 - securing the area and notifying authorities

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 in transporting, handling and storing chemicals safely without supervision
- Assessment of performance should be over a period of time covering all categories from all the Range Statements applicable to the learner's work environment
- In particular, assessment must confirm the ability to
 - safely and securely transport
 - handle and store chemicals in the workplace without harming people, foodstuffs or the environment
 - transfer the skills and knowledge required to transport and store chemicals to other workplaces, eg, This could include different transport methods, storage structures and workplaces

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
 - Australian Standards Association (ASA) levels and standards
 - Risks to the environment
 - Different methods of transport
 - Occupational Health and Safety risks management principles as they apply to hazardous substances
 - Hazards and risks involved in the transport of the specific chemical concerned and related control measures
 - Relevant Occupational Health and Safety legislative requirements and Codes of Practice with regard to hazardous substances and the use of chemicals
 - Correct wearing/fit of personal protective equipment
- Required skills
 - Accurate read and interpret instructions for transporting and handling chemicals
 - Accurately read and interpret instructions for action to be taken to control and minimise the effects of a spillage of chemicals
 - Communicate with others regarding transport and storage processes

Resource implications

- Physical resources - assessment of this competency requires access to
 - personal protective equipment
 - appropriate documentation and resources 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
 - where this competency standard is being used as part of an accreditation or licence for purchase or use of chemicals, the assessor must meet the requirements of the issuing body. This may include
 - accreditation with that issuing body
 - maintenance of current competency in this and the following standards
 - RTC3704A - Prepare and apply chemicals
 - RTC4702A - Minimise risks in the use of chemicals
 - RTC4703A - Plan and implement a chemical use program
 - involvement in professional development programs comprising technical and legislative updates on an annual basis

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 in 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 competency 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** .