



Australian Government

CPPSPS3001A Handle, transport and store swimming pool and spa chemicals safely

Release: 1

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Modification History

Version	Comments
1	This version first released with CPP07 Property Services Training Package Version 13.

Unit Descriptor

This unit of competency specifies the outcomes required to handle, transport and store swimming pool and spa chemicals safely. It includes assessing risks associated with different types of swimming pool and spa chemicals; following emergency procedures for chemical spillages and leaks; following legislative requirements for the safe handling, transport and storage of swimming pool and spa chemicals; and maintaining chemical storage areas and chemical manifests.

Application of the Unit

This unit of competency supports the work of swimming pool and spa technicians engaged in maintaining water quality in domestic, commercial and public swimming pools and spas.

Licensing/Regulatory Information

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

Pre-Requisites

Nil

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Where ***bold italicised*** text is used, further information is detailed in the required skills and knowledge and/or the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

- | | | |
|--|---|---|
| 1 Address risks associated with swimming pool and spa chemicals in line with legislative and enterprise requirements. | 1.1
1.2
1.3
1.4 | Legislation, codes of practice and industry requirements are accessed.
<i>Information</i> on <i>situations in which swimming pool and spa chemicals may become hazardous</i> is sourced in line with standard operating procedures, material safety data sheets, and manufacturer and enterprise requirements.
<i>Risks</i> associated with swimming pool and spa chemicals are identified and assessed.
<i>Risk control measures</i> and emergency action plans are identified and implemented. |
| 2 Handle and transport swimming pool and spa chemicals in line with legislative and enterprise requirements. | 2.1
2.2
2.3
2.4
2.5
2.6
2.7 | Transport requirements are identified and followed.
Risks involved in the handling and transport of swimming pool and spa chemicals are assessed and minimised.
Swimming pool and spa chemical containers are confirmed as being in a sound condition for transport.
<i>Personal protective equipment</i> is used when handling swimming pool and spa chemicals.
Chemical spills and leaks are responded to in line with enterprise, regulatory and manufacturer requirements.
Transport incidents are reported.
Appropriate first aid and spill kits are confirmed as being on hand for all stages of handling, transport and |

storage.

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|---|--|-----|--|
| 3 | Store swimming pool and spa chemicals in the workplace in line with legislative, chemical manufacturer and enterprise requirements. | 3.1 | <i>Appropriate storage methods</i> are used. |
| | | 3.2 | Risks involved in storage of swimming pool and spa chemicals are assessed and minimised. |
| | | 3.3 | Storage areas are maintained. |
| | | 3.4 | Products are retained in original containers with labels intact. |
| | | 3.5 | Storage containers and unwanted and/or out-of-date chemicals are disposed of. |
| 4 | Store unused swimming pool and spa chemicals in the workplace in line with chemical manufacturer and enterprise requirements. | 4.1 | Unused swimming pool and spa chemicals are repackaged as appropriate. |
| | | 4.2 | Chemicals are handled, stored and transported. |
| 5 | Record storage details of swimming pool and spa chemicals in line with legislative and enterprise requirements. | 5.1 | <i>Chemical storage inventory and records</i> are maintained. |
| | | 5.2 | Storage incidents are reported. |

Required Skills and Knowledge

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

Required skills

- communication skills to report chemical incidents to appropriate persons in line with enterprise and legislative requirements
- decision-making and problem-solving skills to assess risks and determine safe storage arrangements for swimming pool and spa chemicals
- literacy skills to read and interpret material safety data sheets, manufacturer instructions, safety symbols and signs, government regulations and codes of practice in relation to the handling, transport and storage of swimming pool and spa chemicals
- numeracy skills to maintain chemical storage inventory records
- research skills to identify and locate documents and information on the safe handling, transport and storage of swimming pool and spa chemicals
- technology skills to enter and retrieve data from electronic chemical storage inventory systems
- time-management skills to implement risk-control measures and emergency action plans

Required knowledge

- chemical disposal principles
- chemical-safety principles
- chemical storage requirements
- chemical storage inventory and records systems:
 - purpose
 - types
- commonwealth, state or territory, and local government legislation and regulations impacting on the handling, transport and storage of swimming pool and spa chemicals related to:
 - dangerous goods
 - environment protection
 - health
 - licensing requirements in relation to chemical transport and storage
 - work health and safety
 - waste disposal
- handling, transport and storage requirements for different types of swimming pool and spa chemicals
- processes for clearing and cleaning up spillages and leakages
- requirements for disposal of excess, unwanted and out-of-date swimming pool and spa chemicals

- requirements for disposal of used chemical containers
- swimming pool and spa chemicals:
 - reactive material hazards:
 - emergency action plans
 - fire fighting
 - incident reporting procedures
 - reactive properties of swimming pool and spa chemicals
 - risk triggers:
 - improper mixing
 - wetting
 - risk control measures:
 - chemicals, including safe chemical use principles and compliance with labels and instructions
 - dust prevention
 - fire prevention
 - keep swimming pool and spa chemicals dry
 - staff training
 - ventilation
 - types:
 - algaecides
 - balancers
 - clarifiers and flocculants
 - oxidisers
 - sanitisers
 - specialised chemicals used in swimming pools and spas
 - water balancing chemicals
 - uses
- types and uses of personal protective equipment used in handling and transport of swimming pool and spa chemicals

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	This unit of competency could be assessed by demonstration of safe handling, transport and storage of swimming pool and spa chemicals, including assessment of the risks and risk control measures associated with these activities.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	A person should demonstrate the ability to: • handle, transport and store swimming pool and spa chemicals safely • maintain and use the personal protective equipment required for the safe handling, transport and storage of swimming pool and spa chemicals • assess and respond to risks associated with the handling, transport and storage of swimming pool and spa chemicals • follow emergency procedures for chemical spills and leaks • maintain storage areas and manifests for swimming pool and spa chemicals • demonstrate knowledge of the: • legislative, chemical manufacturer and enterprise requirements associated with swimming pool and spa chemicals • types of risks and risk control measures associated with swimming pool and spa chemicals • reactive properties of swimming pool and spa chemicals • types and uses of different swimming pool and spa chemicals.
Context of and specific resources for assessment	Assessment of essential underpinning knowledge may be conducted in an off-site context and is to comply with relevant regulatory and Australian Standards' requirements. Resource implications for assessment include: • relevant codes, standards and government regulations • a technical reference library with current publications on: • chemicals used in swimming pools and spas • chemical safety • the handling, transport and storage of swimming pool and spa chemicals • legislation and codes of practice relevant to swimming pool and spa chemicals.

Method of assessment	Assessment methods must: • satisfy the endorsed Assessment Guidelines of the CPP07 Property Services Training Package • include direct observation of tasks in real or simulated work conditions, with questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application • reinforce the integration of employability skills with workplace tasks and job roles • confirm that competency is verified and able to be transferred to other circumstances and environments. This unit could be assessed on its own or in combination with other units relevant to the job function.
Guidance information for assessment	Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support. Assessment processes and techniques should, as far as is practical, take into account the language, literacy and numeracy capacity of the candidate in relation to the competency being assessed.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

<i>Information</i> may include:	• chemical labels • enterprise policies and procedures • hazardous material signs • material safety data sheets • swimming pool and spa chemical manufacturers.
<i>Swimming pool and spa chemicals</i> may include:	• algaecides • balancers • clarifiers and flocculants • oxidisers • sanitisers • specialised chemicals used in swimming pools and spas

	• water balancing chemicals.
Situations in which swimming pool and spa chemicals may become hazardous may include:	• chemical spills and leaks • decomposition over time • high humidity • inadequately ventilated storage areas for swimming pool and spa chemicals • mixing swimming pool and spa chemicals with incompatible materials • water wetting swimming pool and spa chemicals.
Risks may include:	• chemicals: • bulk handling • compatibility • moisture • repackaged chemicals • storage • usage • used chemicals • environmental • fire • personal injuries: • contact with skin and eyes • ingestion • inhalation • manual handling injuries • toxic vapours.
Risk control measures may include:	• avoid mixing swimming pool and spa chemicals • fire prevention • industrial housekeeping • keep swimming pool and spa chemicals dry • minimise dust generation • staff training • use personal protective equipment • ventilate chemical storage areas.
Personal protective equipment may include:	• air purifying respirators • chemical goggles • face shields • liquid impervious apron or coveralls • liquid impervious boots • liquid impervious gloves.
Appropriate storage	• prevent:

methods are those that:	• contact with people • contamination of the environment • cross-contamination of products • are in line with legislative and enterprise requirements.
Chemical storage may include:	• commercial premises • domestic premises • service vans • shops • warehouses • yards.
Chemical storage inventory and records may include:	• electronic systems • paper-based systems.

Unit Sector(s)

Competency field

Unit sector Swimming pools and spas

Custom Content Section

Not applicable.