

CPPSPS4017 Detect leaks in swimming pools and spas

Application

This unit specifies the outcomes required to detect leaks in swimming pools and spas. It includes operating leak-detection equipment and reporting on leak-detection activities.

This unit is suitable for swimming pool and spa technicians who work independently using specialised knowledge and skills to solve predictable and unpredictable problems in:

- private swimming pools and spas
- public swimming pools and spas, including:
 - hydrotherapy and therapeutic exercise pools
 - wading and receiving pools associated with water slides
 - wave pools.

All work must be carried out to comply with workplace procedures, in accordance with state/territory work health and safety (WHS), regulations and legislation that applies to the workplace. Legislative and regulatory requirements apply to swimming pool and spa technicians but vary according to state/territory jurisdictions. Users must check with the relevant regulatory authority before delivery.

Service technicians are not permitted to undertake any installation, replacement, maintenance and repair functions that are restricted to licensed trades or occupations.

Prerequisite Unit

Nil.

Elements and Performance Criteria

1. Assess job requirements.	1.1 Identify relevant Australian standards and regulatory, manufacturer and enterprise requirements related to leak detection.
	1.2 Review work instructions and test to confirm that swimming pool and/or spa is leaking in line with enterprise procedures.
	1.3 Confirm location of related services in line with enterprise procedures.
	1.4 Identify hazards and assess and control risks in the work area in line with WHS and enterprise requirements.
2. Detect leaks.	2.1 Apply relevant regulations, Australian standards and manufacturer, client and enterprise requirements throughout leak detection.
	2.2 Implement leak detection process using appropriate leak-detection equipment.
	2.3 Seek advice from relevant personnel for activities outside scope of own expertise or licensing.
	2.4 Arrange leak repair in line with testing outcomes and enterprise and statutory requirements.
3. Complete leak detection activities.	3.1 Clean and store leak-detection equipment in line with enterprise and manufacturer requirements
	3.2 Review and report on work in line with enterprise procedures.

Foundation Skills

Candidates require:

- reading skills to source and interpret technical information, regulations, standards and codes of practice
- oral communication skills to interact with clients from diverse social, economic and cultural backgrounds
- numeracy skills to:
 - perform calculations related to water loss in swimming pools and spas
 - interpret data output from electronic leak-detection equipment.

Unit Mapping Information

Supersedes and equivalent to CPPSPS4017A Detect leaks in swimming pools and spas.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPSPS4017

Detect leaks in swimming pools and spas

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by:

- Determine job requirements, detect leak and organise repair of leaks in:
 - one swimming pool and one spa made from fibreglass
 - one swimming pool and one spa made from concrete.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- key requirements of relevant commonwealth, state or territory, and local government regulations and Australian standards related to swimming pool and spa servicing:
 - work health and safety
 - public health
 - dangerous goods
 - environment and waste disposal
 - Australian Competition and Consumer Commission product safety guidelines
 - electrical and plumbing regulations related to own work
- enterprise policies and procedures related to:
 - compliance with regulations
 - maintenance of knowledge of regulations
 - roles, responsibilities and limitations of own role
- work instructions:
 - site requirements, including access
 - personal protective clothing and equipment requirements
 - equipment and systems location information
 - warranties and guarantees
- hazards and risks associated with swimming pool and spa leak detection
- common structural leak areas:
 - cracks
 - lights
 - main drain and hydrostatic valve
 - pipe openings into pool
 - skimmer bond to pool
 - skimmer throat
 - tile line
 - vinyl liners
- leak-detection equipment:
 - types
 - operating principles
 - safety
 - maintenance procedures

- leak-detection procedures
- signs of potential pool and spa leaks:
 - algae growth or discoloration of water
 - cracks
 - equipment loses prime
 - excess chemical usage
 - excessive water loss
 - pool deck is sinking or lifting
 - pool has air in the system
 - soggy spots around the pool
 - visible equipment leaks
- types of leaks in swimming pools and spas:
 - plumbing leaks
 - pressure leaks
 - static leaks.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment must be undertaken in the workplace or in a simulated workplace environment.

Candidates must be provided with:

- relevant manufacturer instructions, regulations, codes, standards and enterprise policies and procedures
- relevant tools and equipment, personal protection equipment (PPE)
- technical references with current information on leak detection techniques for swimming pools and spas.

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