



Australian Government

CPPSPS4006 Install, service and repair swimming pool and spa low voltage lighting systems

Release: 1

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Modification History

Release 1 This version first released with CPP Property Services Training Package Release 9.0.

Supersedes and is equivalent to CPPSPS4006A Install, service and repair low voltage swimming pool and spa lighting systems. Minor title change. Added in content from CPPSPS4011A Comply with regulatory requirements for swimming pool and spa servicing. Element 3 changed from Service to Maintain. Updated to meet the Standards for Training Packages.

Application

This unit specifies the skills and knowledge required to install, service and repair swimming pool and spa lighting systems. The unit is restricted to low voltage lighting systems only.

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 swimming pool and spa lighting systems in accordance with regulatory requirements 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.

Pre-requisite Unit

None.

Unit Sector

Swimming pool and spa service

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe what needs to be done to demonstrate achievement of the element.
1 Assess job requirements.	1.1 Identify relevant Australian standards and regulatory, manufacturer and enterprise requirements related to swimming pool and spa lighting systems. 1.2 Review work instructions and confirm system, installation, service or repair activities required. 1.3 Identify hazards and assess and control risks in the work area in line with WHS and enterprise requirements. 1.10
2 Install and test swimming pool or spa lighting system and components.	2.1 Apply relevant regulations, Australian standards and manufacturer, client and enterprise requirements throughout lighting system or component installation. 2.2 Coordinate installation work with relevant licensed personnel. 2.3 Install lighting system or component to swimming pool or spa. 2.4 Test and commission swimming pool or spa lighting system or component.
3 Maintain swimming pool or spa lighting systems.	3.1 Identify service and maintenance requirements from manufacturer instructions in line with enterprise requirements. 3.2 Check and fit replacement components in line with manufacturer instructions. 3.3 Service swimming pool or spa lighting system in line with WHS, manufacturer instructions and enterprise procedures.
4 Resolve faults in swimming pool or spa	4.1 Apply system knowledge and technical resources to analyse faults and defects efficiently and accurately.

lighting systems.	4.2	Diagnose faults that are not covered fully by maintenance manual fault diagnosis guides.
	4.3	Seek advice and repair work assistance from relevant personnel for activities outside scope of own expertise or licensing.
	4.4	Apply WHS and sustainability practices related to materials, equipment, and the surrounding environment during fault finding and repair or replacement activities.
	4.5	Repair or replace components in line with manufacturer instructions, and regulatory, client and enterprise requirements.
	4.6	Test and commission swimming pool or spa lighting system in line with manufacturer instructions.
5 Complete installation, repair and service.	5.1	Reinstate work area and swimming pool or spa lighting system to operational condition.
	5.2	Document and report procedures undertaken, and system and/or component malfunctions, faults, wear or damage.
	5.3	Advise client of operational and maintenance requirements of the lighting system in line with enterprise requirements.
	5.4	Advise appropriate persons of non-compliance of swimming pool or spa and environs with safety and regulations.

Foundation Skills

As well as the foundation skills explicit in the performance criteria of this unit, 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 troubleshooting faults.

Unit Mapping Information

Supersedes and equivalent to CPPSPS4006A Install, service and repair low voltage swimming pool and spa lighting systems.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPSPS4006 Install, service and repair swimming pool and spa low voltage lighting systems

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Performance Evidence

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

- installing, servicing and testing a swimming pool or spa lighting system and a component in a minimum of two swimming pools and one spa
- applying technical knowledge and advanced diagnostic skills to identify and repair one lighting fault in a swimming pool and one lighting fault in a spa, in line with regulatory requirements.

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
- system information
- warranties and guarantees
- hazards and risks associated with swimming pool and spa lighting systems and underwater lighting systems
- swimming pool and spa low voltage lighting system:
 - common faults
 - components including power, transformer, light, light cable
 - maintenance, including multi-meter
 - operating principles of different lighting systems
 - procedures for replacement of bulbs and fuses
 - purpose of lighting system
 - types, operation and servicing of lighting systems:
 - fibre-optic
 - halogen
 - LED
 - retrofitting
- energy efficiency:
 - energy consumption of different lighting systems
 - energy ratings
 - ways of maximising energy efficiency of swimming pool and spa lighting systems.

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 swimming pool and spa lighting systems:
 - operating principles
 - components
 - faults and troubleshooting.

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