

CPPSPS4003 Install and repair swimming pool and spa dosing systems

Application

This unit specifies the skills and knowledge required to install, test and repair swimming pool and spa dosing systems. This unit of competency does not include the installation of gas systems.

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 pools and spa dosing 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.

Prerequisite Unit

Nil.

Elements and Performance Criteria

1. Assess job requirements.	1.1	Identify and apply relevant Australian standards and regulatory, manufacturer and enterprise requirements related to swimming pool and spa dosing systems.
	1.2	Review work instructions and confirm installation or repair activities required.
	1.3	Identify hazards and assess and control risks in the work area in line with WHS and enterprise requirements.
2. Install and test swimming pool or spa dosing system and components.	2.1	Apply relevant regulations, Australian standards and manufacturer, client and enterprise requirements throughout swimming pool or spa dosing system or component installation.
	2.2	Coordinate installation work with relevant licensed personnel.
	2.3	Fit dosing system or component to swimming pool or spa.
	2.4	Test and commission swimming pool or spa dosing system or component.
3. Resolve faults in swimming pool or spa dosing systems.	3.1	Apply system knowledge and technical resources to analyse faults and defects efficiently and accurately.
	3.2	Diagnose faults that are not covered fully by maintenance manual fault diagnosis guides.

	3.3 Seek advice and repair work assistance from relevant personnel for activities outside scope of own expertise or licensing. 3.4 Apply WHS and sustainability practices related to materials, equipment, and the surrounding environment during fault finding and repair or replacement activities. 3.5 Repair or replace components in line with manufacturer instructions, and regulatory, client and enterprise requirements. 3.6 Test and commission swimming pool or spa dosing system in line with manufacturer instructions.
4. Complete installation and repair.	4.1 Reinstatement work area and swimming pool or spa dosing system to operational condition. 4.2 Document and report procedures undertaken, and system and/or component malfunctions, faults, wear or damage. 4.3 Advise client of operational and maintenance requirements of the dosing system in line with enterprise requirements. 4.4 Advise appropriate persons of non-compliance of swimming pool or spa and environs with safety and regulations.

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 troubleshooting faults.

Unit Mapping Information

Supersedes and equivalent to CPPSPS4003A Install, service and repair swimming pool and spa dosing systems.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPPSPS4003

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Performance Evidence

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

- installing and testing a swimming pool or spa dosing system in at least two swimming pools and one spa
- applying technical knowledge and advanced fault diagnostic skills to identify and repair two faults in different dosing systems, 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 installation and repair of dosing systems including electrical safety
- purpose and operating principles of swimming pool and spa dosing systems
- common faults of swimming pool and spa dosing systems
- maintenance procedures for electrically interlocking chemical feeder and pool pump systems
- types, components, operation, installation, commissioning and servicing:
 - dosing control systems
 - erosion feeders or flow-through chemical feed systems:
 - pressure differential feeders
 - pressure erosion dry chemical feeders

- pressure to vacuum feeders
 - spray erosion dry chemical feeders
- water testing:
 - equipment
 - parameters
 - techniques
 - test results and records.

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 dosing systems:
 - operating principles
 - components
 - faults and troubleshooting.

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