

CPPSPS4008 Install, service and repair spas

Application

This unit specifies the skills and knowledge required to install, service and repair spas.

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 spas in accordance with regulatory requirements in indoor and outdoor, private and public spas including:

- hydrotherapy pools
- hot tubs
- swim spas
- spa baths and 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 spas. 1.2 Review work instructions and confirm system, installation, service or repair activities required for spa bath or pool. 1.3 Identify hazards and assess and control risks in the work area in line with WHS and enterprise requirements.
2. Install and test spa and components.	2.1 Apply relevant regulations, Australian standards and manufacturer, client and enterprise requirements throughout installation of lighting system or component. 2.2 Coordinate installation work with relevant licensed personnel. 2.3 Install spa system or component. 2.4 Test and commission spa or component.
3. Maintain spas.	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 spa in line with WHS, manufacturer instructions and enterprise procedures.
4. Resolve faults in spas.	4.1 Apply system knowledge and technical resources to analyse faults and defects. 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 spa in line with manufacturer instructions.
5. Complete installation, repair and service.	5.1 Reinststate work area and spa 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 spa in line with enterprise requirements. 5.4 Advise appropriate persons of non-compliance of 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 CPPSPS4008A Install, service and repair spas.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPPSPS4008

Install, service and repair spas

Performance Evidence

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

- installing one spa and a component in a minimum of two spas
- servicing a spa or component in a minimum of two spas
- applying technical knowledge and advanced diagnostic skills to identify and repair two faults 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 spas
- operating principles
- types, operation, installation, commissioning and servicing of spas
- maintenance of spas
- repair of small cracks and scratches, including use of acrylic repair kit or car scratch repair kit
- common faults, including foaming
- spa components
- construction material:
 - concrete
 - fibreglass
 - thermoplastic
 - stainless steel
- design features:

- steps, seating areas, hand/support rails
 - dehumidification
 - bathing loads
 - water replacement
 - hot water circulation
 - plant space and location
- disinfection:
 - hazards
 - purpose
 - procedures
- chemistry testing and parameters
- water testing:
 - equipment
 - parameters
 - techniques
 - test results.

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 spas:
 - operating principles
 - components
 - faults and troubleshooting.

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