



Australian Government

**Assessment Requirements for CPPSPS4005
Install, service and repair swimming pool
and spa heating systems**

Release: 1

Assessment Requirements for CPPSPS4005 Install, service and repair swimming pool and spa heating systems

Modification History

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

Supersedes and is equivalent to CPPSPS4005A Install, service and repair swimming pool and spa heating systems. 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.

Performance Evidence

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

- installing and testing a swimming pool or spa water heating system and a component in a minimum of two swimming pools and one spa in line with regulatory requirements
- applying technical knowledge and advanced diagnostic skills to identify and repair one heating fault in a swimming pool and one 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:
 - 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 associated with heated water in swimming pools and spas
- energy efficiency:
 - energy consumption of different heating systems
 - ways of maximising energy efficiency of swimming pool and spa heating systems
- swimming pool and spa heating system:
 - purpose and operating principles
 - types and components:
 - heat pump or exchanger
 - gas (fossil fuel)
 - solar
 - electric
 - determining heating requirements:
 - sizing
 - temperature needed
 - time of year pool or spa used
 - pool or spa measurements
 - solar roof space availability and access
 - gas fitting regulations
 - heat pump electrical needs
 - impact of heat blanket
 - purchase, installation and running costs
 - Coefficient of Performance (COP)
 - installation requirements:
 - venting and air circulation
 - installation before chemical or salt chlorination equipment
 - correct pipework and flow rates
 - bypass valves for servicing and water flow adjustments
 - available support staff to safely install heater
 - operation, maintenance and servicing of heating systems:
 - common faults
 - inspection and cleaning
 - manufacturer requirements.

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

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>