

CPPSPS4001 Assess and treat water problems in swimming pools and spas

Application

This unit specifies the skills and knowledge required to assess water quality, treat water problems and document water-treatment activities.

This unit is suitable for swimming pool and spa technicians who work independently using specialised knowledge and skills to solve water problems in accordance with regulatory requirements in:

- private and 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 installation, replacement, maintenance and repair functions that are restricted to licensed trades or occupations.

Prerequisite Unit

Nil.

Elements and Performance Criteria

1. Assess water quality.	1.1 Interpret and comply with relevant regulatory and procedural requirements for water assessment and treatment. 1.2 Test water quality using compliant equipment and procedures in accordance with water quality parameters and regulatory requirements. 1.3 Review need for external analysis of samples and arrange as required. 1.4 Analyse and record test results in accordance with requirements. 1.5 Record and report water problems and test results accurately.
2. Treat water problems.	2.1 Determine appropriate methods to treat identified water problems. 2.2 Apply corrective measures to water problems promptly and safely. 2.3 Monitor the effectiveness of water treatments and adjust as necessary in accordance with regulatory and manufacturer requirements.
3. Develop a water quality maintenance plan	3.1 Develop schedules and procedures for microbiological and chemical testing in line with regulatory and enterprise requirements. 3.2 Recommend methods to document and monitor test results. 3. Recommend maintenance and procedures to maintain water quality.

4. Complete water treatment procedures.	<p>4.1 Reinstatement work area and treated swimming pool or spa to operational condition in accordance with WHS, enterprise and regulatory requirements.</p> <p>4.2 Document and report procedures undertaken, and system and/or component malfunctions, faults, wear or damage identified during water treatment.</p> <p>4.3 Advise appropriate person of maintenance measures to mitigate water quality problems and ensure compliance with regulatory requirements.</p>
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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 treatment.

Unit Mapping Information

Supersedes and is equivalent to CPPSPS4001A Assess and treat water problems in swimming pools and spas.

Incorporates aspects of CPPSPS4015A Maintain spa water quality.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPPSPS4001

Assess and treat water problems in swimming pools and spas

Performance Evidence

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

- sampling and testing water quality in different swimming pools and spas on five occasions
- taking corrective action to treat identified water quality problems in different swimming pools and spas on five occasions.

At least two of the swimming pools and two of the spas must be used by the public.

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
- pool and spa water:
 - mineral
 - ozone
 - ultra violet (UV) systems
 - indoor and outdoor
- hazards and risks associated with water quality
- indicators of common swimming pool and spa water problems
- disinfection principles, systems, chemistry and by-products
- water balancing principles and procedures
- water testing methods and procedures

- microbial contamination:
 - bacteria
 - algae
 - protozoa
 - virus
 - parasites
- effectiveness of circulation and filtration system including bather load
- treatments for water problems:
 - contamination response
 - chemical dosing.

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:
 - water quality parameters
 - water contamination
 - treatment processes for water problems in swimming pools and spas.

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