



Australian Government

SISCAQU016 Manage pool water quality

Release: 1

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Modification History

Not applicable.

Application

This unit describes the performance outcomes, skills and knowledge required to determine pool water maintenance, monitoring and treatment requirements using operational and regulatory specifications as the basis. It covers skills to monitor test data, and treat water on an ongoing basis. It requires the ability to evaluate water quality problems and contamination incidents, and to respond with corrective chemical treatments.

This unit applies to public aquatic facilities including those operated by commercial, not-for-profit, community and government organisations. It applies to senior technical and operational staff and managers who work independently or with limited guidance from others, taking responsibility for their own work functions and outputs.

The skills in this unit must be applied in accordance with Commonwealth and State or Territory legislation, Australian standards and industry codes of practice.

No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Aquatics

Unit Sector

Community Recreation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1. Determine pool water maintenance requirements.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1. Interpret pool and water treatment plant operational specifications to confirm pool water maintenance requirements.
- 1.2. Access public health regulatory documents to ascertain

- prescribed and recommended pool water maintenance requirements specific to the facility.
- 1.3. Seek assistance from manufacturer and regulatory bodies as needed to confirm requirements.
2. Maintain and monitor pool water quality.
- 2.1. Develop schedules for pool water monitoring and treatment in line with operational and regulatory specifications.
- 2.2. Calculate quantity of chemicals required to maintain optimum pool water quality and clarity according to operational specifications.
- 2.3. Operate chemical dosing system according to operational specifications of water treatment plant.
- 2.4. Complete periodic and remedial backwash to ensure functionality of filtration system according to operational specifications.
- 2.5. Monitor and evaluate pool water test data and visual inspection reports against normal reference range.
- 2.6. Identify any significant variation and determine need for corrective action.
3. Rectify pool water problems.
- 3.1. Determine significance of pool water problem and urgency of corrective action to plan response.
- 3.2. Identify chemical water imbalance from data, determine mix of chemicals required to rectify, and calculate quantity.
- 3.3. Respond to emergency contamination incidents according to operational and regulatory response procedures.
- 3.4. Calculate quantity of chemicals and use remedial dosing methods suited to the contamination circumstance and according to operational and regulatory specifications.
4. Handle and store chemicals safely.
- 4.1. Select and fit personal protective equipment and handle chemicals according to manufacturer instructions and work health and safety (WHS) practices.
- 4.2. Store chemicals in environmental conditions specified in manufacturer instructions and regulatory specifications.
- 4.3. Dispose of chemicals and storage containers according to manufacturer and regulatory specifications.
- 4.4. Record quantities of chemicals used, on-hand, and disposed of in chemical register.
- 4.5. Secure chemical storage facility when unattended according to organisational procedures.
5. Complete pool water maintenance records and reports.
- 5.1. Record accurate details of all monitoring, evaluation and treatment actions including details of chemicals and dosage administered.
- 5.2. Complete facility incident reports and mandatory reports to regulatory authorities.

- 5.3. Maintain records for effective access and according to operational and regulatory specifications.

Foundation Skills

Foundation skills essential to performance in this unit, but not explicit in the performance criteria are listed here, along with a brief context statement.

SKILLS	DESCRIPTION
Reading skills to:	interpret complex and potentially unfamiliar technical specifications and regulatory information.
Writing skills to:	use fundamental sentence structure, technical terminology and abbreviations to complete forms and reports that require factual information.
Numeracy skills to:	- extract, interpret, and record sometimes complex numerical data, symbols and abbreviations involving degrees, volume, percentages and ratios in manufacturer instructions, monitoring specifications and record keeping documents - interpret, use and record temporal data, including minutes, hours, days and weeks - complete complex calculations for chemical use, involving volume, percentages and ratios using manufacturer instructions and technology to assist.

Unit Mapping Information

Supersedes and is not equivalent to SISCAQU004 Develop and implement pool water maintenance procedures.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1ca50016-24d2-4161-a044-d3faa200268b>