



Australian Government

SISCAQU004 Develop and implement pool water maintenance procedures

Release: 1

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Modification History

Not applicable.

Application

This unit describes the performance outcomes, skills and knowledge required to develop, implement, monitor and evaluate systems and procedures for the maintenance of quality pool water in an aquatic recreation facility.

This unit applies to those working autonomously in aquatic leisure centres or community pools, in roles such as program coordinators, swim school coordinators, recreation coordinators or duty managers. Work is performed according to relevant legislation, and organisational policies and procedures.

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	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Develop pool water maintenance procedures.	1.1 Evaluate pool water quality maintenance and treatment needs according to regulatory framework. 1.2 Develop and document systems for pool water maintenance in consultation with appropriate personnel.
2. Implement pool water maintenance procedures.	2.1 Provide accurate and current information and instruction to staff about legislative and technical requirements. 2.2 Delegate testing and treatment tasks according to staff

- skills.
- 2.3 Test pool water quality following established procedures.
 - 2.4 Interpret results of tests made by self and others and identify where correction is needed.
 - 2.5 Calculate the amount of chemicals required to correct chemical imbalances in pool water.
 - 2.6 Select and use chemical dosing equipment for treatment of pool water according to manufacturer specifications.
 - 2.7 Monitor pool water quality on ongoing basis, identify issues of concern and respond according to agreed procedures.
 - 2.8 Identify and respond to emergency situations according to agreed procedures.
 - 2.9 Complete accurate documentation
3. Evaluate pool water maintenance procedures.
- 3.1 Assess effectiveness of pool water maintenance procedures against testing and treatment records.
 - 3.2 Identify and document potential improvements to maintenance procedures.
 - 3.3 Communicate improvements and changes to relevant staff and stakeholders.

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 technical content of regulatory requirements.

Unit Mapping Information

SISCAQU414A Develop 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>

Assessment Requirements for SISCAQU004 Develop and implement pool water maintenance procedures

Modification History

Not applicable.

Performance Evidence

Evidence of the ability to complete tasks outlined in elements and performance criteria of this unit in the context of the job role, and:

- develop and document pool water maintenance procedures that meet regulatory requirements for at least one aquatic facility that incorporate:
 - monitoring and treatment procedures for:
 - microbiological levels
 - disinfectant levels
 - pH levels
 - clarity levels
 - staff training requirements
 - safety procedures
 - emergency response procedures
 - documentation and reporting
- implement and evaluate pool water maintenance procedures for at least one aquatic facility
- implement emergency procedures in the event of a chemical emergency on at least one occasion.

Knowledge Evidence

Demonstrated knowledge required to do the task outlined in elements and performance criteria of this unit:

- legislation and industry standards relevant to aquatic facility maintenance with specific focus on local requirements:
 - work health and safety/occupational health and safety
 - dangerous goods act and regulations
 - local government regulations
 - building codes and regulations
- organisational policies and procedures:
 - standard operating conditions and levels
 - work health and safety/occupational health and safety
 - risk assessment and control

- handling of hazardous chemicals
- emergency response
- factors that affect pool water treatment needs in different contexts:
 - condition of aquatic facility
 - location
 - size
 - nature of services provided
 - availability of resources
- characteristics of water quality:
 - pH levels
 - alkalinity
 - chlorine and / or bromine
 - temperature
 - calcium hardness
 - disinfectant levels
- waterborne bacteria and how to enable these to be monitored and controlled safely:
 - pseudomonas
 - aeruginosa
- consultation and communication mechanisms to develop and implement procedural systems
- content considerations for procedure documents:
 - specific testing and treatment procedures
 - safety requirements (chemicals, plant and equipment)
 - emergency response
 - training requirements
 - documentation and reporting requirements
- water treatment processes:
 - routine pool water tests
 - pool water microbiological tests
 - superchlorination
 - shock dosing
 - dechlorination
 - ozonisation or use of sanitizer
 - pool water filtration and recirculation
 - backwashing
 - manual removal of visible contaminants
- features and sources of products for pool water quality maintenance.

Assessment Conditions

Skills must be demonstrated in:

- a workplace or simulated aquatic facility or environment.

Assessment must ensure use of:

- a pool for which a maintenance program would be developed
- information about pool water quality maintenance to allow the individual to develop a tailored system
- organisational policies and procedures
- incident reporting documentation
- resources to maintain facility and equipment.

Assessment activities that allow the individual to:

- implement and monitor pool quality maintenance over time
- respond to a chemical emergency situation.

Assessors must satisfy the Standards for Registered Training Organisations' requirements for assessors.

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