



Australian Government

Department of Education, Employment and Workplace Relations

SISCAQU201A Monitor pool water quality

Release: 2

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Modification History

Not Applicable

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to continually monitor the water quality of swimming pools and aquatic facilities, take corrective action and record test results.

Application of the Unit

This unit applies to those working as pool attendants or aquatic operators in various aquatic environments, such as council or commercially operated aquatic and leisure centres. Work may be carried out under supervision or with some degree of autonomy, depending on the individual situation and job role.

Licensing/Regulatory Information

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement.

Pre-Requisites

Nil

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the Evidence Guide.

1. Conduct pool water tests.

- 1.1. Complete ***routine pool water tests*** according to ***public health regulatory requirements, organisational policies and procedures*** and ***relevant legislation***.
- 1.2. Compare and interpret pool water test results with public health regulatory requirements.
- 1.3. Report pool water test irregularities to aquatic facility or to service personnel for corrective action.
- 1.4. Respond to contamination incidents according to public health regulatory requirements, organisational policies and procedures and relevant legislation.
- 1.5. Perform continual visual checks of ***pool water quality*** and initiate corrective actions.

2. Record results.

- 2.1. Record routine pool water test results according to aquatic facility specifications and public health regulatory requirements.
- 2.2. Update swimming pool log according to aquatic facility specifications and organisational policies and procedures.

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

- communication skills to:
 - report irregularities to aquatic facility or service personnel
 - initiate corrective actions
- problem-solving skills to:
 - conduct a variety of routine pool water tests
 - identify irregularities in results
 - respond to contamination incidents
- planning and organisational skills to conduct regular pool water tests according to facility schedule
- literacy skills to:
 - record pool water test results
 - update swimming pool log
- numeracy skills to identify and interpret routine test results.

Required knowledge

- legislation and organisational policies and procedures that enable:
 - safe conduct of pool water tests
 - appropriate response to contamination incidents
 - correct maintenance of swimming pool logs
- public health regulatory requirements and aquatic facility specifications for:
 - comparing and interpreting pool water test results
 - recording pool water test results
- pool water chemistry to understand scientific terms related to tests such as pH levels, alkalinity, chlorine, bromine, temperature and calcium hardness
- equipment and resources used for testing pool water quality.

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, Range Statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Evidence of the following is essential:

- conducts pool water tests and reports irregularities to aquatic facility or service personnel promptly, according to public health regulatory requirements and organisational policies and procedures
- records pool water test results and updates pool log according to organisational policies and procedures and relevant legislation
- performs routine visual checks for pool water quality and proposes corrective actions in response to contamination incidents.

Context of and specific resources for assessment

Assessment must ensure conduct of regular pool water tests to monitor water quality over a realistic aquatic facility timeframe.

Assessment must also ensure access to:

- an aquatic facility with a suitable pool
- equipment, resources and pool water testing apparatuses to test water quality
- public health regulatory requirements, relevant legislation and organisational policies and procedures.

Method of assessment

A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:

- observation of the candidate using pool water testing apparatuses and equipment
- oral or written questioning to assess knowledge of the application of routine pool water quality tests
- observation of reading and recording test results
- portfolio of written recordings detailing test irregularities, pool water test results and log updates
- third-party reports from a supervisor detailing the candidate's performance on the job.

Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example:

- SISXOHS101A Follow occupational health and safety policies

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Routine pool water tests may include:

- free chlorine
- total bromine
- total chlorine
- combined chlorine
- pH
- alkalinity
- cyanuric acid
- calcium hardness
- total hardness
- temperature.

Public health regulatory requirements may include:

- health and poisons acts
- infectious diseases regulations
- dangerous goods act and regulations
- metropolitan water supply, sewerage and drainage by-laws
- occupational health and safety act
- environment legislation
- local government regulations.

Organisational policies and procedures may include:

- occupational health and safety
- communication protocols
- use and maintenance of equipment and resources
- reporting and record keeping
- emergency and risk management procedures.

Relevant legislation may include:

- occupational health and safety
- dangerous goods
- environment.

Pool water quality may include:

- microbiological
- disinfectant
- pH
- clarity.

Unit Sector(s)

Community Recreation

Competency Field

Aquatics