

Title	Monitor and manage water treatment processes and equipment in a complex public pool and spa pool		
Level	4	Credits	25

Purpose	<p>This unit standard is intended for people working in a complex public pool or spa pool and who are responsible for the quality of the water.</p> <p>People credited with this unit standard are able to: describe equipment operations for water treatment systems; monitor and manage water treatment processes and equipment; and carry out maintenance processes for equipment in water treatment systems, in a complex public pool and spa pool.</p>
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Classification	Recreation and Sport > Recreation and Sport - Aquatics
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Available grade	Achieved
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Guidance Information

- 1 All learning and assessment within this unit standard must be carried out in accordance with the following, as relevant to role:
 - relevant legislation including Health and Safety at Work Act 2015, Privacy Act 1993, Human Rights Act 1993, Health and Safety at Work (Hazardous Substances) Regulations 2017, Hazardous Substances and New Organisms Act 1996, Accident Compensation Act 2001, Health Act 1956, Local Government Act 2002, and any subsequent amendments;
 - industry standards, codes and good practice guidelines including: NZS 4441:2008 *Swimming pool design Standard*; and NZS 5826:2010 *Pool water quality*, available from <http://www.standards.co.nz>;
 - organisational policies and procedures including Emergency Action Plans (EAPs), Standard Operating Procedures (SOPs) or Normal Operating Procedures (NOPs), and the use of personal protective equipment (PPE).

2 Definitions

Organisational policies and procedures refer to the operations manual or documented normal operating procedures at an aquatic facility that set out the way in which the facility will operate on a day-to-day basis.

Public pool is defined in NZS 5826:2010 as the pool or pools, their fixtures and surrounds, shower and changing areas, fun equipment, play areas, and attached facilities where they exist. A *complex public pool* tends to have the following characteristics: high bather loads; secondary water treatment; a high level of automation; and pool water features.

Outcomes and performance criteria

Outcome 1

Describe equipment operations for water treatment systems in a complex public pool and spa pool.

Range recirculation pump, filter, chemical dosing systems, secondary treatment.

Performance criteria

- 1.1 Describe equipment operations in terms of variables which determine the effectiveness of water treatment processes.
- 1.2 Describe equipment operations in terms of the data required to assess performance of the water treatment system.

Outcome 2

Monitor and manage water treatment processes and equipment in a complex public pool and spa pool.

Range recirculation, filtration, chemical dosing, secondary treatment.

Performance criteria

- 2.1 Monitor process variables to maintain effectiveness of water treatment processes.
- 2.2 Collect, interpret, and report process data.
- 2.3 Manage process variables and equipment to achieve required water quality parameters and maintain equipment performance.

Outcome 3

Carry out maintenance processes for equipment in water treatment systems in a complex public pool and spa pool.

Range recirculation pump, filter, chemical dosing systems, secondary treatment.

Performance criteria

- 3.1 Describe reactive and preventative maintenance requirements.
- 3.2 Carry out and record maintenance procedures.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 November 2019	N/A

Consent and Moderation Requirements (CMR) reference

0099

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Skills Active Aotearoa Limited info@skillsactive.org.nz if you wish to suggest changes to the content of this unit standard.