

UNIT CODE	SISCAQU017
UNIT TITLE	Monitor and maintain aquatic facility plant and equipment
APPLICATION	<p>This unit describes the performance outcomes, skills and knowledge required to complete periodic and routine inspections of pool and other aquatic facility plant and equipment. It requires the ability to complete minor maintenance on equipment. Complex inspections, diagnoses, and repairs are referred to specialist technicians.</p> <p>This unit applies to public aquatic facilities including those operated by commercial, not-for-profit, community and government organisations.</p> <p>It has particular application to aquatic technical operators, but can apply to other individuals working at different levels of responsibility. All would be guided by manufacturer instructions, and organisational inspection and maintenance schedules.</p> <p>The skills in this unit must be applied in accordance with Commonwealth and State or Territory legislation, Australian standards and industry codes of practice.</p> <p>No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.</p>
PREREQUISITE UNIT	Nil
COMPETENCY FIELD	Aquatics
UNIT SECTOR	Community Recreation
ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>

1. Complete periodic inspections of aquatic facility plant and equipment.	<p>1.1 Interpret organisational schedules to determine inspection requirements for aquatic facility plant and other equipment.</p> <p>1.2 Complete periodic routine inspections of pool plant, and other facility plant and equipment according to organisational schedules and manufacturer instructions.</p> <p>1.3 Complete required organisational reports to confirm safety and operational effectiveness of plant and other equipment.</p> <p>1.4 Identify and promptly report plant and equipment irregularities to appropriate personnel for further action.</p>
2. Complete minor maintenance.	<p>2.1 Interpret organisational schedules to determine periodic and routine maintenance requirements for plant and equipment.</p> <p>2.2 Erect signs and barriers to isolate work area and maintain staff and patron safety.</p> <p>2.3 Maintain cleanliness of equipment to avoid corrosion and deterioration.</p> <p>2.4 Replace consumable items according to maintenance schedules and manufacturer instructions.</p> <p>2.5 Complete minor non-specialist equipment repairs according to manufacturer instructions and organisational safety practices.</p> <p>2.6 Report other required repairs outside scope of skills and responsibility according to organisational procedures.</p> <p>2.7 Complete repair and maintenance records according to organisational procedures.</p>
FOUNDATION SKILLS	
<i>Foundation skills essential to performance in this unit, but not explicit in the performance criteria are listed here, along with a brief context statement.</i>	
SKILLS	DESCRIPTION
Reading skills to:	<ul style="list-style-type: none"> ■ interpret potentially unfamiliar and complex manufacturer instructions.
Writing skills to:	<ul style="list-style-type: none"> ■ use fundamental sentence structure to complete basic inspection, repair and maintenance forms and reports that require factual information.
Numeracy skills to:	<ul style="list-style-type: none"> ■ extract, interpret, and record sometimes complex numerical data, symbols and abbreviations involving pressure, degrees, volume, percentages and ratios in manufacturer instructions, inspection schedules and record keeping documents ■ interpret, use and record temporal data, including minutes, hours, days and weeks.
UNIT MAPPING INFORMATION	Supersedes and is not equivalent to SISCAQU003 Maintain aquatic facility plant and equipment
LINKS	Companion Volume Implementation Guide

TITLE	Assessment Requirements for SISCAQU017 Monitor and maintain aquatic facility plant and equipment
PERFORMANCE EVIDENCE	<p>Evidence of the ability to complete tasks outlined in elements and performance criteria of this unit in the context of the job role, and:</p> <ul style="list-style-type: none">■ correctly interpret plant inspection schedules, and follow manufacturer instructions to complete the following:<ul style="list-style-type: none">○ two periodic routine inspections of each of the following types of pool plant:<ul style="list-style-type: none">● water circulation system● filtration system● disinfection dosing system● pH control system○ one periodic routine inspection of another type of aquatic facility plant■ correctly interpret maintenance schedules, and follow manufacturer instructions to complete the following activities:<ul style="list-style-type: none">○ two routine maintenance tasks for aquatic facility equipment○ two minor non-specialist repairs on aquatic facility equipment○ complete accurate records of all inspections, and repair and maintenance activities.

KNOWLEDGE EVIDENCE	<p>Demonstrated knowledge required to complete the tasks outlined in elements and performance criteria of this unit:</p> <ul style="list-style-type: none"> ■ organisational procedures for inspecting and maintaining plant and equipment, and for record keeping and reporting ■ organisational: <ul style="list-style-type: none"> ○ role responsibilities, boundaries and reporting lines for inspection, repair and maintenance activities ○ work health and safety practices for inspecting and maintaining plant and equipment ■ public health and safety implications of inadequately maintained equipment in aquatic facilities ■ key functions and operational features of pool plant, and typical periodic inspection schedules: <ul style="list-style-type: none"> ○ water circulation and distribution system ○ filtration system, including backwash processes and indicators for remedial backwash ○ disinfection system: <ul style="list-style-type: none"> ● automated dosing system ● continuous metered dosing system ○ pH control system ○ heating system ■ key functions and operational features of other aquatic facility plant, and typical periodic inspection schedules: <ul style="list-style-type: none"> ○ lighting system ○ ventilation system ■ inspection, cleaning and maintenance requirements for pool concourse and other wet floor areas: <ul style="list-style-type: none"> ○ common surface types ○ slip coefficients that must be maintained ○ types of slip tests, who completes these tests and any periodic testing requirements ■ types of inspections, maintenance and repairs referred to specialist technicians, for both pool plant and other aquatic facility plant ■ for aquatic facility equipment: <ul style="list-style-type: none"> ○ tools, consumables and methods used to clean and maintain equipment in safe and optimum condition ○ common types of consumables, and methods used to replace these ○ common types of minor, non-specialist repairs ○ tools and methods used to complete common repairs ○ types of repairs referred to specialist technicians ■ formats and inclusions of: <ul style="list-style-type: none"> ○ organisational inspection and maintenance schedules for plant and equipment ○ manufacturer instructions for inspection, repair and maintenance of plant and equipment ○ records and reports for inspection, condition, repair, and maintenance, and how to complete these.
---------------------------	---

ASSESSMENT CONDITIONS	<p>Skills must be demonstrated in an aquatic facility with an operating indoor or outdoor pool used by members of the public. Facilities can include those operated by commercial, not-for-profit, community and government organisations.</p> <p>Assessment must ensure use of:</p> <ul style="list-style-type: none">■ pool plant and other aquatic facility plant■ aquatic facility equipment■ repair and maintenance tools, equipment and consumable resources■ organisational inspection and maintenance schedules for plant and equipment■ manufacturer instructions for inspection, repair and maintenance of plant and equipment■ template records and reports for inspection, repair, and maintenance■ organisational procedures for inspecting and maintaining plant and equipment, and for record keeping and reporting. <p>Assessors must:</p> <ul style="list-style-type: none">■ satisfy the Standards for Registered Training Organisations requirements for assessors, and■ have a collective period of at least two years' experience working in public pool plant and equipment maintenance, where they have applied the skills and knowledge covered in this unit of competency; the two years' experience can incorporate full and part time experience.
LINKS	Companion Volume Implementation Guide