



Qualification  
Guidance

# Level 2 Award in Pool Plant Operations

Qualification  
Accreditation Number:  
**601/4928/0**  
Version AIQ004520

**Active iQ**

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# Active IQ Level 2 Award in Pool Plant Operations

**Qualification Accreditation No:** 601/4928/0

## Introduction

The Active IQ Level 2 Award in Pool Plant Operations is at level 2 on the Regulated Qualifications Framework.

**Guided learning hours: 8                      Total Qualification Time: 10                      Credit: 5**

<b>Minimum credit to be achieved at or above the level of the qualification:</b>	5
<b>Requirement other than the award of credit which needs to be met before the qualification is awarded:</b>	None
<b>Exemptions:</b>	None

## Entry Requirements

- There are no specific entry requirements.

## Qualification Outline

### Target Learners:

- Leisure attendants.
- Staff working in sport and recreation organisations who need to be trained to an agreed nationally recognised standard in pool plant operations.
- Those involved in the day-to-day plant operation of a pool water treatment plant.
- Individuals in the industry who wish to have their experience and knowledge recognised by a formal qualification.

### Aim:

To provide learners with the knowledge and skills to:

- Be able to safely operate a pool plant.

### Objectives:

To provide learners with the knowledge and skills to:

- Understand the principles of pool plant operations.
- Be able to test pool water and take remedial action to restore ideal conditions.

## Progression

This qualification provides progression on to:

- Active IQ Level 2 Certificate in Leisure Operations.
- Active IQ Level 3 Certificate in Pool Plant Operations.
- Active IQ Level 2 NVQ in Certificate in Active Leisure, Learning and Well-being Operational Services.
- Active IQ Level 3 NVQ Diploma in Leisure Management.
- Other Active IQ qualifications.

### **Links to National Occupational Standards (NOS)**

There are links to:

- Operational Services NOS.
- Leisure Management NOS.

# Occupational competence statements for tutoring, assessing and internal verifying

This section outlines the requirements for tutoring, assessing and internally verifying Active IQ qualifications.

## Required criteria

All Tutors, Assessors and Internal Verifiers must:

- Possess a discipline-specific qualification equivalent to the qualification being taught.
- Have relevant industry experience.
- Demonstrate active involvement in a process of industry-relevant Continued Professional Development during the last two years (this may be discipline/context-specific or relevant to tutoring assessing or quality assurance).

## Tutors

Tutors must hold, or be working towards a teaching qualification.

The following are acceptable:

- Level 3 Award in Preparing to Teach in the Lifelong Learning Sector (PTTLS).
- Level 3 Award in Education and Training.
- Level 4 Award in Preparing to Teach in the Lifelong Learning Sector (PTTLS).
- Level 4 Certificate in Teaching in the Lifelong Learning Sector (CTTLS).
- Level 4 Certificate in Education and Training.
- Level 5 Diploma in Teaching in the Lifelong Learning Sector (DTTLS).
- Level 5 Diploma in Education and Training.
- Certificate in Education.

## Assessors

Assessors must hold or be working towards any of the following:

- Level 3 Award in Understanding the Principles and Practices of Assessment.
- Level 3 Award in Assessing Vocationally Related Achievement.
- Level 3 Award in Assessing Competence in the Work Environment.
- Level 3 Certificate in Assessing Vocational Achievement.
- A1 (previously D32, D33).

## Internal Verifiers

Internal verifiers must hold or be working towards any of the following:

- Level 4 Award in Understanding the Internal Quality Assurance of Assessment Processes and Practice.
- Level 4 Award in the Internal Quality Assurance of Assessment Processes and Practice.
- Level 4 Certificate in Leading the Internal Quality Assurance of Assessment Processes and Practice.
- V1 (previously D34).

All new assessors and quality assurance staff must be given a clear action plan for achieving the appropriate qualification(s) and should be countersigned by an appropriately qualified individual until the qualification(s) are achieved.

# Active IQ Level 2 Award in Pool Plant Operations

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Learners must complete the two mandatory units (5 credits).

Unit		Unit accreditation number	Level	Credit
1	Principles of pool water plant operations	H/506/8083	2	3
2	Principles and practice of pool water testing	K/506/8084	2	2

Learning outcomes The learner will:	Assessment criteria The learner can:
1. Understand the responsibilities of pool operators to provide a safe pool environment	1.1 Describe the pool operators legal responsibilities for providing a safe pool environment 1.2 State the ways in which pool operators can meet these legal requirements
2. Understand the types of pools used in active leisure facilities	2.1 List a range of pools used in the active leisure sector 2.2 Give examples of the main purpose of a range of pools used in the active leisure sector
3. Understand the causes of pool water pollution	3.1 List the causes of pool water pollution to include: <ul style="list-style-type: none"> <li>• physical pollutants</li> <li>• chemical pollutants</li> <li>• biological pollutants</li> </ul>
4. Understand the importance of good hygiene prior to the use of pools	4.1 List the advantages to both the user and the pool operators of good hygiene 4.2 List ways to encourage user to utilise good hygiene practice before entering the pool
5. Understand the importance of good cleanliness in the swimming pool environment	5.1 State ways to minimise the transfer of dirt on to pool side 5.2 State the correct processes for the effective cleaning of the pool and surrounds
6. Understand the principles of a simple pool water circulation system	6.1 Describe the main components of a pool water circulation system 6.2 State the correct sequence of the pool water circulation system
7. Know the recommended temperatures for the types of pools used in active leisure facilities	7.1 List the recommended pool water temperatures for a range of pools
8. Understand how pool operators provide a safe pool environment	8.1 Explain the reasons for disinfecting swimming pools 8.2 State the pool water tests needed to ensure a safe pool environment 8.3 Describe the recommended range for pool water pH levels 8.4 Describe the recommended range for pool water disinfection levels 8.5 Describe the process for calculating chlorine levels
<b>Assessment</b>	Worksheet

<b>Learning outcomes</b> <b>The learner will:</b>	<b>Assessment criteria</b> <b>The learner can:</b>
<p>1. Know the tests needed to ensure pool water quality</p>	<p>1.1 List the pool water tests required to ensure appropriate pool water quality to include:</p> <ul style="list-style-type: none"> <li>• free chlorine</li> <li>• total chlorine</li> <li>• pH</li> <li>• other non-chlorine based tests</li> <li>• calcium hardness</li> <li>• total dissolved solids</li> <li>• temperature</li> <li>• total alkalinity</li> </ul> <p>1.2 State the correct procedure for carrying out each pool water test to include:</p> <ul style="list-style-type: none"> <li>• free chlorine</li> <li>• total chlorine</li> <li>• pH</li> <li>• other non-chlorine based tests</li> <li>• calcium hardness</li> <li>• total dissolved solids</li> <li>• temperature</li> <li>• total alkalinity</li> </ul> <p>1.3 List the optimum ranges for each pool water test to include:</p> <ul style="list-style-type: none"> <li>• free chlorine</li> <li>• total chlorine</li> <li>• pH</li> <li>• other non-chlorine based tests</li> <li>• calcium hardness</li> <li>• total dissolved solids</li> <li>• temperature</li> <li>• total alkalinity</li> </ul> <p>1.4 Know the frequency of pool water testing to include:</p> <ul style="list-style-type: none"> <li>• free chlorine</li> <li>• total chlorine</li> <li>• pH</li> <li>• other non-chlorine based tests</li> <li>• calcium hardness</li> <li>• total dissolved solids</li> <li>• temperature</li> <li>• total alkalinity</li> </ul>



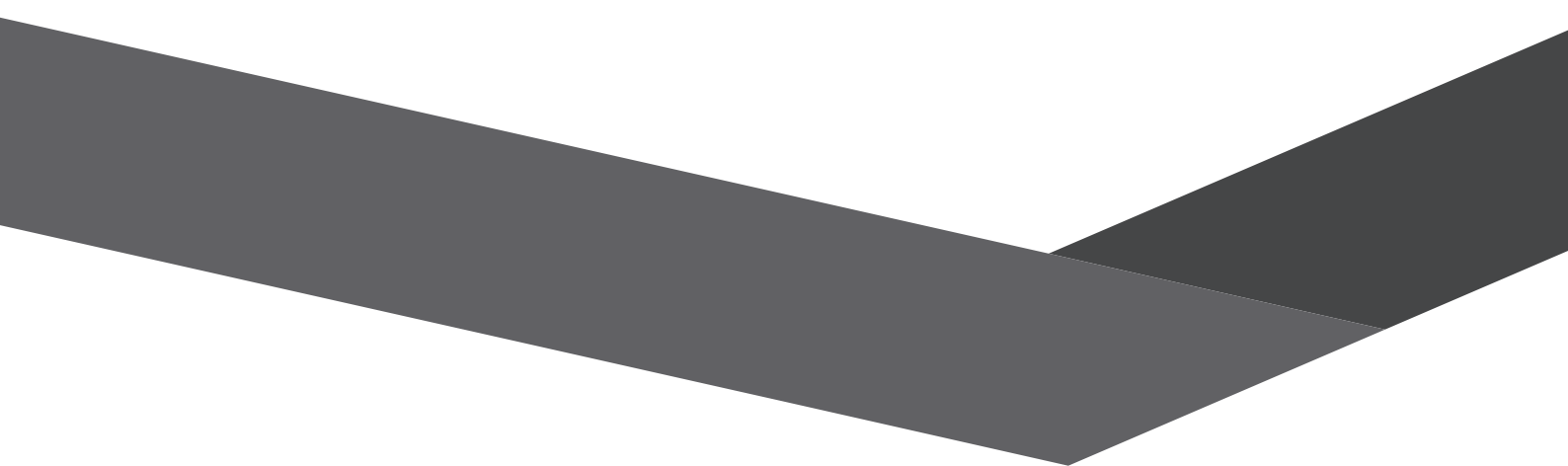
<b>Learning outcomes</b> <b>The learner will:</b>	<b>Assessment criteria</b> <b>The learner can:</b>
2. Understand the importance of good record keeping	2.1 List the reasons why it is essential to maintain accurate records of pool water tests
3. Demonstrate correct pool water testing techniques	3.1 Carry out a range of pool water testing techniques to include a pool water: <ul style="list-style-type: none"> <li>• pH test</li> <li>• free chlorine/total bromine test</li> <li>• total chlorine test</li> <li>• total alkalinity test</li> <li>• calcium hardness test</li> <li>• total dissolved solids</li> <li>• temperature test</li> </ul> 3.2 Record a range of pool water tests to include: <ul style="list-style-type: none"> <li>• pH levels</li> <li>• free chlorine/total bromine levels</li> <li>• total chlorine levels</li> <li>• total alkalinity levels</li> <li>• calcium hardness levels</li> <li>• total dissolved solid levels</li> <li>• pool water temperature</li> </ul> 3.3 Calculate and record pool water combined chlorine levels
<b>Assessment</b>	Practical Task Worksheet

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