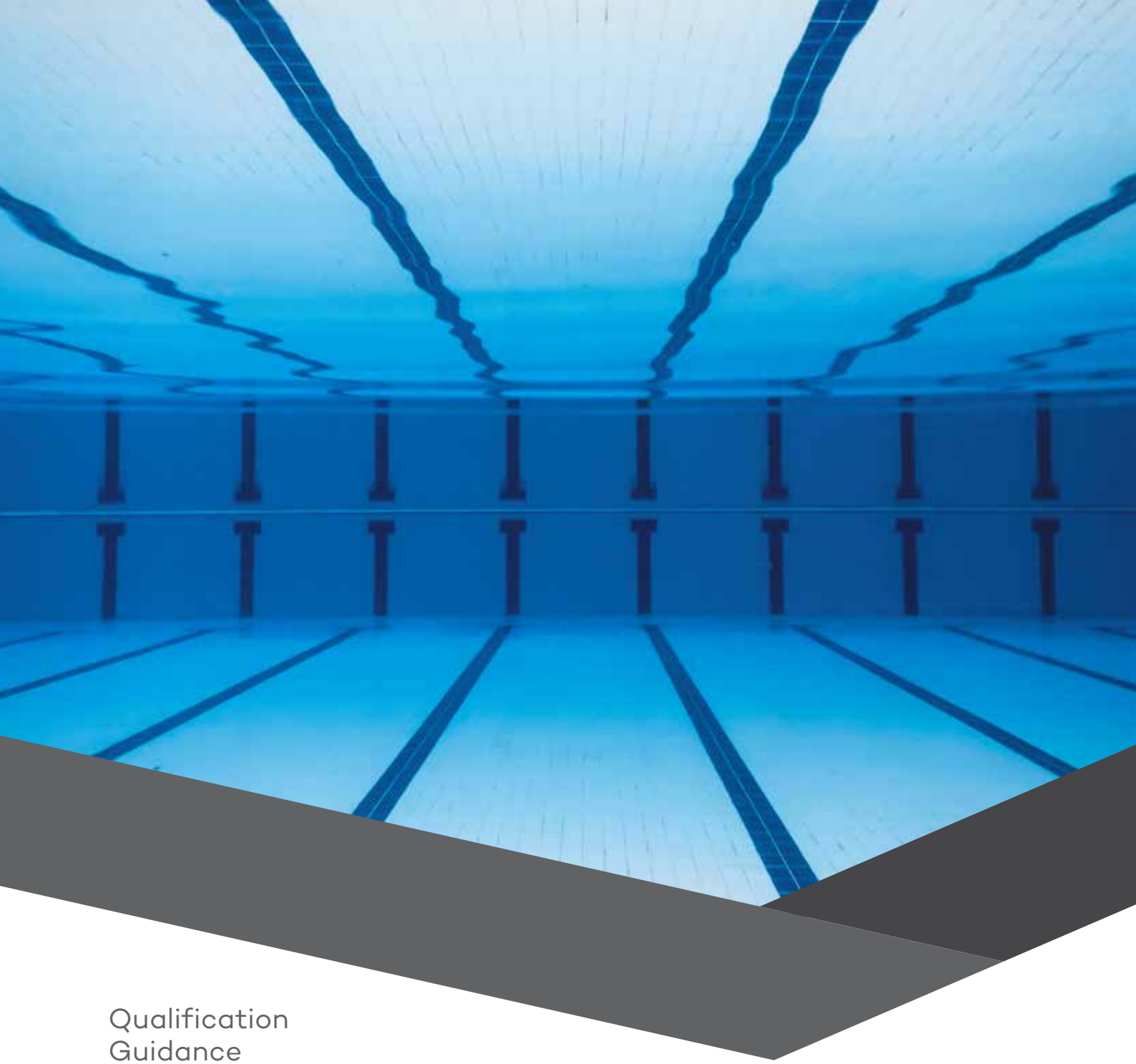

Qualification
Guidance

Active IQ Level 3 Award in Operating Small Pools

Qualification
Accreditation Number:
603/4976/1
Version AIQ005770

Active iQ

Active IQ Level 3 Award in Operating Small Pools
Qualification accreditation number: 603/4976/1

Introduction

The Active IQ Level 3 Award in Operating Small Pools is at Level 3 on the Regulated Qualifications Framework (RQF).

Guided learning hours:	16	Total qualification time:	33

Entry requirements:

- There are no specific entry requirements.
- There is an element of communication (discussing, presenting, reading and writing) involved and learners should have basic skills in communication pitched at Level 2.

Qualification outline

Target learners:

- Learners aged 16+.
- Learners considering a career in the active leisure sector.
- School caretakers who need to know how to test pool water and operate the pool plant in found in smaller school pools.
- Holiday park operatives who need to know how to test pool water and operate the pool plant found in smaller pools.
- Health and fitness operatives who need to know how to test pool water and operate the pool plant found in smaller pools.
- Learners wishing to develop an understanding of the operations of swimming pools and other types of pools.

Purpose

The purpose of this qualification is to provide learners with an understanding of the operations of small swimming pools and other types of pools and provide the knowledge and skills required to operate the plant safely and be able to competently carry out pool water testing.

Progression

This qualification provides progression on to:

- Apprenticeships within the active leisure sector.
- Active IQ Level 3 Award in Managing Pool Plant Operations.

Links to National Standards

The qualification is underpinned by the overarching professional standards for:

- Pool plant operations.

Occupational competence statements for tutoring, assessing and internally 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 continuing professional development during the last two years (this may be discipline/context-specific or relevant to tutoring assessing or quality assurance).

Tutors and assessors

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

The following are acceptable:

- Level 3 Award in Education and Training.
- Level 4 Certificate in Education and Training.
- Level 5 Diploma in Education and Training.
- Certificate in Education (including professional and postgraduate).
- Qualified Teacher Status (QTS).

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) which should be countersigned by an appropriately qualified individual until the qualification(s) are achieved.

Active IQ Level 3 Award in Operating Small Pools
Qualification accreditation number: 603/4976/1

Qualification structure

Learners must complete the two mandatory units.

Mandatory units

	Unit	Unit accreditation number	Level	GLH	TQT
1	The principles and practice of pool water treatment and testing	L/617/7339	2	8	15
2	The principles of pool plant operations and chemical safety	F/617/7340	3	8	18

Unit 1 L/617/7339 **Level:** 2 **GLH:** 8 **TQT:** 15
Unit Title: The principles of operation and practice of pool water treatment and testing

Learning outcomes The learner will:	Assessment criteria The learner can:
1. Understand the legal responsibilities of pool operators to provide a safe pool environment	1.1 Describe the legal responsibilities of pool operators to provide a safe pool environment 1.2 State the ways in which pool operators can meet these legal requirements 1.3 List the key current legislation and regulations which relate to pool operations
2. Understand the different types of pools and pool ownership	2.1 Identify a range of pools used in active leisure facilities. 2.2 Describe the main purpose of each of the pools types used in the active leisure sector 2.3 Explain the ownership and management methods used in the active leisure sector
3. Understand the causes of pool water pollution and contamination	3.1 List the causes of pool water pollution to include: • physical pollutants • chemical pollutants • biological pollutants
4. Understand the importance of good bather 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 standards of 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 operating principles of a simple pool water circulation system	6.1 List 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	7.1 List the recommended pool water temperatures for a range of pools

Learning outcomes The learner will:	Assessment criteria The learner can:
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 process for calculating combined chlorine levels 8.4 Describe the recommended range for pool water pH levels 8.5 List the recommended range for pool water disinfection levels to include: • chlorine based disinfectants • bromine based disinfectants
9. Know the essential tests to ensure optimum pool water quality	9.1 List the pool water tests required to ensure optimum pool water quality 9.2 List the optimum range for each pool water test to ensure pool water quality 9.3 Describe the correct procedure for carrying out the pool water tests required to ensure good pool water quality
10. Understand the different types of pool water testing equipment needed to ensure good quality pool water	10.1 Know the different types of test equipment used for testing pool water
11. Demonstrate correct pool water testing techniques	11.1 Carry out a pool water pH test 11.2 Record pool water pH level 11.3 Carry out a pool water free chlorine/total bromine test 11.4 Record pool water free chlorine/total bromine level 11.5 Carry out a pool water total chlorine test 11.6 Record pool water total chlorine levels 11.7 Calculate and record the pool water combined chlorine level 11.8 Carry out a pool water total alkalinity test 11.9 Calculate and record the pool water total alkalinity level 11.10 Carry out a pool water calcium hardness test 11.11 Calculate and record the pool water calcium hardness level 11.12 Carry out a pool water TDS test 11.13 Record the pool water TDS level
12. Understand the importance of good record keeping	12.1 List the reasons why it is essential to maintain accurate records of pool water tests
Assessment	Task Worksheet

Unit 2 F/617/7340 **Level:** 3 **GLH:** 8 **TQT:** 18
Unit Title: The principles of pool plant operations and chemical safety

Learning outcomes The learner will:	Assessment criteria The learner can:
1. Understand the processes involved in the treatment of pool water	1.1 Explain the function of the main components of a pool plant to include: • skimmers • strainers • pumps • filters • automatic dosing units • valves • coagulation/flocculation dosing • heat exchanger • chemical injection points 1.2 Draw a schematic diagram of a pool to show the principle components and main valves
2. Understand the different types of pool water filtration systems	2.1 Identify a range of pool water filtration systems 2.2 Explain the importance of coagulation and flocculation in the filtration process
3. Understand the importance of cleaning the pool filtration system regularly	3.1 Explain the importance of cleaning the pool filtration system regularly 3.2 Describe the process of backwashing sand filters 3.3 Identify when a backwash should be carried out 3.4 Explain the reasons why a backwash must be carried out 3.5 List the items which should be recorded as evidence when backwashing sand filters 3.6 Describe the process for cleaning cartridge filters
4. Know the different types of valves commonly used in pool plant operations	4.1 Identify the different types of valves in pool plant operations
5. Understand the concepts of risk and hazard	5.1 Define 'hazard' 5.2 Define 'risk' 5.3 Explain how to carry out a risk assessment
6. Know the types and the purpose of chemicals used in pools	6.1 List the chemicals used to maintain pool water quality 6.2 Explain the purpose of the chemicals used to maintain pool water quality 6.3 Identify the properties of the chemicals used to maintain the pool water quality

Learning outcomes The learner will:	Assessment criteria The learner can:
7. Understand the risks involved in the storage and use of chemicals for the treatment of swimming pool water	7.1 Identify the requirements for safe storage and handling of the chemicals used in the treatment of pool water 7.2 Recognise the risks of incorrect storage, handling and use of the chemicals used in the treatment of pool water 7.3 Carry out a risk assessment on the chemical used to disinfect the pool water
8. Understand the importance of effective hydraulic flow of swimming pool water	8.1 Describe the routes by which water circulates from the pool inlets to outlets 8.2 Explain the reasons for having an efficient surface draw off system in a pool 8.3 Explain the hazards associated with pool outlets
9. Understand the processes involved in the operation and treatment of spa pools and hot tubs	9.1 Explain the processes involved in the operation and treatment of spa pools and hot tubs 9.2 Identify the hazards commonly associated with spa pools and hot tubs
Assessment	Worksheet Assignment

Active IQ

Dryden House
St. Johns Street
Huntingdon
PE29 3NU

T 01480 467 950
F 01480 456 283
info@activeiq.co.uk
www.activeiq.co.uk

18089900473
Printed on Carbon Captured paper

Active iQ