

ICTQual AB



Qualification Specification

ICTQual AB Level 1 Award in Authorized Gas Tester



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ICTQual AB's

Level 1 Award in Authorized Gas Tester

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Qualification Specification about

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About ICTQual AB's

ICTQual AB is a distinguished awarding body based in the United Kingdom, dedicated to fostering excellence in education, training, and skills development. Committed to global standards, ICTQual AB's provides internationally recognized qualifications that empower individuals and organizations to thrive in an increasingly competitive world. Their offerings span diverse industries, including technical fields, health and safety, management, and more, ensuring relevance and adaptability to modern workforce needs.

ICTQual AB's delivers high-quality educational solutions through a network of Approved Training Centres worldwide. Their robust standards and innovative teaching methodologies equip learners with practical knowledge and skills for personal and professional growth. With a mission to inspire lifelong learning and drive positive change, ICTQual AB's continuously evolves its programs to stay ahead of industry trends and technological advancements.

Course Overview

The ICTQual AB Level 1 Award in Authorized Gas Tester is a basic qualification for individuals working in environments where hazardous gases may be present. Many workplaces, such as oil and gas sites, petrochemical plants, industrial areas, and confined spaces, involve routine tasks that require gas testing to maintain safety. This qualification provides learners with essential knowledge and skills to carry out basic gas testing activities safely.

Gas testing is an important safety procedure used to check whether the atmosphere is safe for workers. Hazardous gases may be toxic, flammable, or cause low oxygen levels, which can be dangerous if not identified in time. This course introduces learners to common workplace gases, basic gas detection equipment, and standard testing procedures used in predictable work environments.

The qualification focuses on simple and well-defined tasks carried out under guidance or supervision. Learners are taught how to follow instructions, select relevant information, and use basic equipment correctly. They

also learn how to identify whether gas testing actions have been effective and when to report unsafe conditions.

By completing this qualification, learners develop confidence to support workplace safety and take responsibility for completing routine gas testing tasks correctly.

Aims:

The aim of this qualification is to:

- Develop basic awareness of hazardous gases and their risks
- Enable learners to carry out simple gas testing tasks safely
- Support safe working practices in predictable work environments
- Help learners understand their responsibilities when performing gas testing duties

Objectives:

By the end of this course, learners will be able to:

- Identify common types of hazardous gases found in the workplace
- Recognise basic gas detection and monitoring equipment
- Follow simple gas testing procedures correctly
- Select and use relevant information for routine gas testing tasks
- Identify whether gas testing actions have been effective
- Address simple problems related to gas testing under guidance
- Take responsibility for completing assigned tasks safely

Targeted:

This qualification is suitable for:

- Entry-level workers in oil and gas, petrochemical, and industrial environments
- Personnel working in confined spaces who require basic gas testing awareness
- New or junior staff assigned routine gas testing duties
- Individuals seeking a basic safety qualification in gas testing
- Workers who carry out gas testing tasks under supervision or guidance

Certification Framework

Qualification title	ICTQual AB Level 1 Award in Authorized Gas Tester
Course ID	HSE0009
Total Qualification Time	10 Hours
Guided Learning Hours	5 Hours
Grading Type	Pass / Fail
Competency Evaluation	Coursework / Assignments / Verifiable Experience
Assessment	The assessment and verification process for ICTQual AB's qualifications involves two key stages: Internal Assessment and Verification: ✓ Conducted by the staff at the Approved Training Centre (ATC) to ensure learners meet the required standards through continuous assessments. ✓ Internal Quality Assurance (IQA) is carried out by the centre's IQA staff to validate the assessment process. External Quality Assurance: ✓ Managed by ICTQual AB's verifiers, who periodically review the centre's assessment and IQA processes. Verifies that assessments are conducted to the required standards and ensures consistency across centres

Entry Requirements

The ICTQual AB Level 1 Award in Authorized Gas Tester course welcomes participants from diverse backgrounds who meet specific entry requirements aimed at ensuring a conducive learning environment and optimal engagement.

- ✓ Participants must be at least 18 years old. This ensures that individuals possess the maturity and responsibility necessary to comprehend and adhere to safety protocols.
- ✓ A fundamental level of literacy and numeracy is required. Participants should be able to read and understand written instructions, safety guidelines, and technical documents, as well as perform basic mathematical calculations needed for gas testing procedures.
- ✓ While prior experience in related fields such as construction, oil and gas, or industrial safety is advantageous, it is not strictly necessary. Individuals with a background in these areas may find it easier to grasp course concepts and apply them in practical scenarios.
- ✓ Participants should be in good health and physically fit. The role of a gas tester may involve working in confined spaces, climbing, and other physical activities. Good physical condition ensures participants can perform their duties safely and effectively.
- ✓ Proficiency in the language of instruction is essential. Participants should be able to understand and communicate effectively in the language used for teaching the course to grasp the technical terms and safety protocols discussed.

Qualification Structure

This qualification comprises 5 mandatory units. Candidates must successfully complete all mandatory units to achieve the qualification.

Mandatory Units	
Unit Ref#	Unit Title
HSE0009-01	Introduction to Gas Testing
HSE0009-02	Gas Detection Equipment
HSE0009-03	Testing Procedures and Techniques
HSE0009-04	Safety Protocols and Emergency Response
HSE0009-05	Legislative and Regulatory Requirements

Centre Requirements

To ensure quality training delivery, centres must adhere to the following standards:

1. Centre Approval

- ✓ Centres must be formally approved by ICTQual AB's before delivering this qualification.
- ✓ Approval involves a review of facilities, policies, and staff qualifications.

2. Qualified Staff

- ✓ **Tutors:** Must hold the ICTQual AB Level 1 Award in Authorized Gas Tester or an equivalent basic safety qualification. Tutors should have basic practical experience in gas testing, confined space awareness, PPE inspection, following entry permits, simple risk checks, and safe working procedures.
- ✓ **Assessors:** Must hold a recognized assessor qualification (e.g., CAVA, AVRA) or equivalent)
- ✓ **Internal Quality Assurers (IQAs):** Must hold a recognized IQA qualification (e.g. Level 4 Award in the IQA and Level 4 Certificate in Leading the IQA) and experience to oversee assessment standards.

3. Learning Facilities

Centre must offer:

- ✓ Private study areas and internet-enabled workspaces (for blended or physical delivery)
- ✓ Academic and pastoral support for learners
- ✓ Administrative support must be available to manage enrolment, tracking, and learner queries efficiently

4. Health and Safety Compliance

- ✓ All training facilities must comply with health and safety regulations.
- ✓ Centres must conduct regular risk assessments for practical activities.

5. Learning Resources

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- ✓ **Course Materials:** Approved textbooks, study guides, and digital content must align with the qualification standards.
- ✓ **Assessment Tools:** Templates and guidelines must be provided to ensure standardized evaluation processes.
- ✓ **E-Learning Support:** Centres offering online or blended learning must implement an effective Learning Management System (LMS).

6. Assessment and Quality Assurance

- ✓ Centres must ensure assessments meet ICTQual AB's competency standards.
- ✓ Internal quality assurance (IQA) must be conducted to maintain consistency.
- ✓ External verifiers from ICTQual AB's will review assessment and training practices.

7. Learning Support

- ✓ **Qualification Guidance:** Support for coursework and assignments.
- ✓ **Career Pathway Assistance:** Information on progression opportunities in sustainability and energy sectors.
- ✓ **Accessibility Support:** Accommodations for learners with disabilities or language barriers.

8. Policies and Compliance

Centres must uphold the following policies in accordance with ICTQual AB's standards:

- ✓ Equality, Diversity, and Inclusion Policy.
- ✓ Health and Safety Policy.
- ✓ Safeguarding and Learner Protection Policy.
- ✓ Complaints and Appeals Procedure.
- ✓ Data Protection and Confidentiality Policy.

9. Reporting Requirements

- Centres must provide ICTQual AB's with regular reports on learner registrations, progress, and certification outcomes.
- Assessment records must be maintained for external auditing and quality assurance purposes.

Support for Candidates

Centres should ensure that materials developed to support candidates:

- ✓ Facilitate tracking of achievements as candidate's progress through the learning outcomes and assessment criteria.
- ✓ Include information on how and where ICTQual AB's policies and procedures can be accessed.
- ✓ Provide mechanisms for Internal and External Quality Assurance staff to verify and authenticate evidence effectively.

This approach ensures transparency, supports candidates' learning journeys, and upholds quality assurance standards.

Assessment

This qualification is competence-based, requiring candidates to demonstrate proficiency as defined in the qualification units. The assessment evaluates the candidate's skills, knowledge, and understanding against the set standards. Key details include:

1. Assessment Process:

- ✓ Must be conducted by an experienced and qualified assessor.
- ✓ Candidates compile a portfolio of evidence that satisfies all learning outcomes and assessment criteria for each unit.

2. Types of Evidence:

- ✓ Observation reports by the assessor.
- ✓ Assignments, projects, or reports.
- ✓ Professional discussions.
- ✓ Witness testimonies.
- ✓ Candidate-produced work.
- ✓ Worksheets.
- ✓ Records of oral and written questioning.
- ✓ Recognition of Prior Learning (RPL).

3. Learning Outcomes and Assessment Criteria:

- ✓ **Learning Outcomes:** Define what candidates should know, understand, or accomplish upon completing the unit.
- ✓ **Assessment Criteria:** Detail the standards candidates must meet to demonstrate that the learning outcomes have been achieved.

This framework ensures rigorous and consistent evaluation of candidates' competence in line with the qualification's objectives.

Unit Descriptors

HSE0009-01- Introduction to Gas Testing

This unit provides learners with basic knowledge of gas testing and its importance in maintaining workplace safety. Learners are introduced to common hazardous gases, why gas testing is required, and where it is used. The unit focuses on awareness of risks and understanding simple responsibilities when carrying out routine gas testing tasks under guidance.

Learning Outcome:	Assessment Criteria:
1. Understand the critical importance of gas testing in industrial safety.	1.1 Describe why we must test for gas before anyone starts work in a dangerous area. 1.2 Explain how regular gas testing helps to prevent fires and explosions at work. 1.3 List the main safety reasons for checking oxygen levels in the air before entering.
2. Identify and describe various types of hazardous gases, such as toxic, flammable, and asphyxiating gases.	2.1 S Name one flammable gas and explain how easily it can catch fire. 2.2 Identify one toxic gas and describe how it can make a worker feel sick. 2.3 Explain what an asphyxiant gas is and how it replaces the fresh air we need.
3. Comprehend basic principles of gas behavior, including how gases diffuse and accumulate in different environments.	3.1 Explain why some gases stay near the floor while others rise to the ceiling. 3.2 Describe how gas can move and spread through a room over a period of time. 3.3 Show where gas is likely to collect in a deep hole or an empty water tank.
4. Recognize common industrial scenarios where gas testing is essential.	4.1 Describe the steps to take before starting "hot work" like welding or cutting. 4.2 Identify a confined space, like a sewer or a pipe, and explain why it is risky. 4.3 Explain why gas testing is needed after a chemical spill happens on a site.

HSE0009-02- Gas Detection Equipment

This unit introduces learners to basic gas detection and monitoring equipment used in the workplace. Learners gain awareness of different types of equipment, their purpose, and basic features. The unit focuses on selecting and using simple equipment correctly, carrying out routine checks, and following instructions to ensure equipment is used safely and effectively.

Learning Outcome:	Assessment Criteria:
1. Gain a comprehensive understanding of different types of gas detection devices, including portable detectors and fixed systems.	1.1 Explain the difference between a portable gas monitor and a fixed wall system. 1.2 List the main parts of a gas detector and what each button or screen does. 1.3 Describe how a personal gas monitor warns a worker using sound and lights.
2. Understand the technological principles behind gas detection, including how different sensors (e.g., electrochemical, infrared, catalytic) operate.	2.1 Describe in simple words how a sensor "finds" a gas in the air. 2.2 Explain why different sensors are needed for different types of hazardous gases. 2.3 Identify how a sensor might react if it gets too much gas at one time.
3. Learn how to select appropriate gas detection equipment based on specific industrial needs and gas types.	3.1 Explain how to choose the right detector for a job involving toxic fumes. 3.2 Describe why you should check the label on a device before using it for a task. 3.3 List three things to look for when picking a detector for a wet or dusty area.
4. Demonstrate the ability to operate various gas detection devices effectively and safely.	4.1 Show how to turn on the device and check if it is working correctly. 4.2 Demonstrate how to do a "bump test" to make sure the sensors are active. 4.3 Explain what to do if the device shows an error message on the screen.

HSE0009-03- Testing Procedures and Techniques

This unit covers basic gas testing procedures and techniques used in predictable work environments. Learners are taught how to follow standard steps, take simple gas readings, and record results accurately. The unit supports learners in using relevant information, completing routine tasks correctly, and identifying whether gas testing actions have been effective.

Learning Outcome:	Assessment Criteria:
1. Master the step-by-step procedures for conducting accurate and reliable gas tests in various environments.	1.1 List the steps you must follow from start to finish to test a work area. 1.2 Describe how to write down the gas readings clearly so others can read them. 1.3 Explain who you must talk to before you begin the gas testing process.
2. Develop proficiency in techniques for sampling gas concentrations and analyzing results.	2.1 Demonstrate how to use a long pump or tube to get air from a deep space. 2.2 Explain why you must wait for the monitor to finish its countdown for a result. 2.3 Describe how to take samples from different parts of a room to be safe.
3. Apply best practices for gas testing in confined spaces and other hazardous areas to ensure accurate readings.	3.1 Explain why you must test the air at the top, middle, and bottom of a tank. 3.2 Describe how to stay safe and outside the space while you are testing it. 3.3 List the rules for re-testing the air if the work stops for a lunch break.
4. Identify factors that can affect gas test accuracy and learn how to mitigate these issues.	4.1 Describe how very hot or very cold weather can change the test results. 4.2 Explain what happens to the reading if the sensor filter is blocked or dirty. 4.3 List two things that might "poison" a sensor and make it stop working.

HSE0009-04- Safety Protocols and Emergency Response

This unit provides learners with basic knowledge of safety protocols related to gas testing activities. Learners learn how to follow safety rules, use basic protective measures, and recognise unsafe conditions. The unit also introduces simple emergency response actions and reporting procedures to be followed under supervision to protect themselves and others.

Learning Outcome:	Assessment Criteria:
1. Develop the ability to identify and assess unsafe conditions related to the presence of hazardous gases.	1.1 Explain what a "low alarm" and a "high alarm" mean on your device. 1.2 Describe how to recognize a gas leak using your senses, like smell or sound. 1.3 List the dangers of staying in an area where the oxygen level is dropping.
2. Understand and implement emergency response procedures specific to gas leaks and other gas-related hazards.	2.1 Describe the exact path to take to exit the building during a gas alarm. 2.2 Explain how to tell your supervisor and teammates that there is a gas leak. 2.3 List the "dos and don'ts" when you hear an emergency siren on the site.
3. Gain knowledge of personal protective equipment (PPE) requirements and demonstrate proper use during gas testing operations.	3.1 Identify the correct mask to wear for protection against toxic gases. 3.2 Show how to check that your safety equipment is not damaged or broken. 3.3 Explain why wearing the right PPE is just as important as using a gas detector.
4. Create and execute effective emergency plans, including evacuation and first response actions, in case of gas-related incidents.	4.1 Describe where the "safe meeting point" is and why everyone must go there. 4.2 Explain how to help a teammate if they are in a dangerous area safely. 4.3 List the emergency phone numbers or radio channels used on your site.

HSE0009-05- Legislative and Regulatory Requirements

This unit introduces learners to basic legal and regulatory requirements related to gas testing. Learners gain awareness of workplace rules, safety responsibilities, and the importance of following procedures. The unit focuses on understanding simple compliance requirements and carrying out gas testing tasks in line with workplace policies and guidance.

Learning Outcome:	Assessment Criteria:
1. Understand the key legislative and regulatory frameworks governing gas testing and industrial safety.	1.1 Explain why the government has made laws to keep workers safe from gas. 1.2 Name the main safety rulebook that your company must follow every day. 1.3 Describe what could happen to a company if they do not follow safety laws.
2. Recognize the legal responsibilities of authorized gas testers and their employers, including compliance obligations.	2.1 List your two main duties as a gas tester to keep the workplace safe. 2.2 Describe what your boss must provide, such as training and good equipment. 2.3 Explain why you must always have a "Permit to Work" before you start.
3. Ensure that gas testing procedures and practices align with relevant safety standards and regulations.	3.1 Describe how to check if your testing method follows the official site rules. 3.2 Explain why you must use the correct company forms for every gas test. 3.3 List where to find the safety manual if you are unsure about a procedure.
4. Maintain accurate records and documentation to demonstrate compliance with industry regulations and support safety audits.	4.1 Explain why it is important to keep a record of every gas test for a long time. 4.2 Describe how to fill out a calibration log to show the tool was checked. 4.3 List the information that must be on a gas report, like date, time, and name.

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