

ICTQual AB



Qualification Specification

ICTQual AB Level 3 Certificate in Quality Control Oil and Gas



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ICTQual AB's

Level 3 Certificate in Quality Control Oil and Gas

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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 3 Certificate in Quality Control – Oil and Gas is designed to equip learners with foundational skills, technical knowledge, and quality control methodologies essential for working within the oil and gas sector. The training focuses on compliance with international quality standards, industry-specific inspection techniques, and documentation practices necessary to ensure operational integrity and regulatory alignment in oil and gas environments. The course follows globally recognised standards and objectives tailored to the inspection and control processes specific to upstream, midstream, and downstream operations. It covers key domains such as materials inspection, welding quality, pipeline control, instrumentation checks, and safety-compliant documentation. Emphasis is placed on procedural accuracy, identification of non-conformities, and the implementation of standard quality control methods that enhance the reliability of field operations. The program integrates structured learning with practical understanding to prepare individuals for quality control roles in high-risk, precision-based environments common to oil and gas installations.

Course Aim

The primary aim of this course is to develop competent individuals who can perform quality control functions effectively within oil and gas operations. The qualification enables learners to:

- Understand the fundamentals of quality control within oil and gas contexts
- Apply inspection and testing methods aligned with industry standards
- Monitor and maintain documentation for compliance and traceability
- Identify deviations, recommend corrective actions, and prevent quality failures
- Promote a quality-focused culture that prioritises safety, accuracy, and continuous improvement

Target Audience:

This course is intended for:

- Individuals seeking entry-level roles in quality control within the oil and gas industry
- Technical personnel transitioning into quality-focused responsibilities
- Operators, inspectors, and technicians aiming to formalise their quality control capabilities
- Fresh graduates from engineering, industrial, or technical backgrounds aspiring to work in oil and gas
- Maintenance and field personnel who require foundational training in quality inspection and compliance procedures

The qualification is particularly suited for those working in or preparing for roles involving site inspection, production line quality checks, or contractor quality surveillance in oil and gas environments

Certification Framework

Qualification title	ICTQual AB Level 3 Certificate in Quality Control Oil and Gas
Course ID	QC0017
Grading Type	Pass / Fail
Competency Evaluation	Coursework / Assignments / Verifiable Experience
Assessment	<p>The assessment and verification process for ICTQual AB's qualifications involves two key stages:</p> <p>Internal Assessment and Verification:</p> <ul style="list-style-type: none">✓ 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. <p>External Quality Assurance:</p> <ul style="list-style-type: none">✓ Managed by ICTQual AB's verifiers, who periodically review the centre's assessment and IQA processes. <p>Verifies that assessments are conducted to the required standards and ensures consistency across centres</p>

Entry Requirements

To enroll in the ICTQual AB Level 3 Certificate in Quality Control Oil and Gas, learners must meet the following requirements:

- **Minimum Age**

Learners must be at least 18 years of age at the time of enrolment. This requirement supports the maturity and responsibility needed for working in safety-critical environments such as oil and gas facilities.

- **Educational Background**

A minimum of a Level 2 qualification (or equivalent) in a relevant field such as science, engineering, mechanical trades, or industrial operations is recommended. Basic knowledge in mathematics, communication, and technical subjects will benefit learners in understanding the core principles of quality control.

- **Industry Experience**

While not mandatory, prior experience in oil and gas, fabrication, inspection, or engineering support roles is advantageous. Learners with hands-on exposure to industrial operations, welding processes, or site-based activities will find the course content more directly applicable and valuable.

These entry requirements are designed to promote successful learning outcomes and ensure that learners have the foundational skills necessary to progress confidently into roles related to quality control and assurance within the oil and gas industry. Training providers may also consider applicants with non-formal qualifications based on professional experience and aptitude.

Qualification Structure

This qualification comprises 3 mandatory units. Candidates must successfully complete all mandatory units to achieve the qualification.

Mandatory Units	
Unit Ref#	Unit Title
QC0017-01	Fundamentals of Quality Control in Oil and Gas Operations
QC0017-02	Inspection and Testing Techniques for Oil and Gas Equipment
QC0017-03	Health, Safety, and Regulatory Compliance in the Oil and Gas Sector

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 a relevant academic qualification (minimum Level 5 in a related technical or engineering discipline).
- ✓ **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

- ✓ **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

QC0017-01- Fundamentals of Quality Control in Oil and Gas Operations

This unit provides learners with a foundational understanding of quality control as it applies to oil and gas operations. It covers the key principles, terminology, and responsibilities related to maintaining quality standards in production and operational activities. Learners will explore how quality control contributes to safety, reliability, and efficiency across various stages of the oil and gas process.

Learning Outcome:	Assessment Criteria:
1. Understand the principles and purpose of quality control in oil and gas environments.	<div>1.1 Explain the main principles of quality control.</div> <div>1.2 Describe the primary purpose of quality control in oil and gas operations.</div> <div>1.3 State the consequences of poor quality control on projects.</div> <div>1.4 Give examples of how quality control prevents project failure.</div>
2. Identify the role of quality control in operational efficiency and safety.	<div>2.1 Describe how quality control practices lead to greater operational efficiency.</div> <div>2.2 Give examples of how quality control processes improve safety in the workplace.</div> <div>2.3 Explain the link between consistent quality and reduced operational costs.</div> <div>2.4 Describe how quality control helps to reduce risks for workers and equipment.</div> <div>2.5 State the importance of a quality-focused mindset for safety.</div>
3. Recognise common quality control tools and processes used in the industry.	<div>3.1 Name three common quality control tools used in the oil and gas industry.</div> <div>3.2 Explain the function of a checklist in quality control.</div> <div>3.3 Describe the use of non-conformance reports in quality processes.</div> <div>3.4 Explain the purpose of a quality management system.</div>
4. Apply basic quality assurance methods to maintain compliance with project requirements.	<div>4.1 Follow quality assurance procedures to ensure work is completed to standard.</div> <div>4.2 Check that work activities match project specifications and requirements.</div> <div>4.3 Document compliance with project requirements using standard forms.</div> <div>4.4 Correctly perform a basic quality check on a specified task.</div>

4.5 State the importance of following a standard procedure.

QC0017-02- Inspection and Testing Techniques for Oil and Gas Equipment

This unit introduces learners to essential inspection and testing methods used to evaluate the integrity and functionality of oil and gas equipment. It includes both visual and instrument-based techniques for identifying defects, verifying measurements, and ensuring compliance with specified standards. Emphasis is placed on accurate use of tools, proper documentation, and following inspection plans.

Learning Outcome:	Assessment Criteria:
1. Perform visual and dimensional inspections on oil and gas equipment.	<ul style="list-style-type: none">1.1 Perform a visual inspection to check for visible defects on equipment.1.2 Use standard measuring tools to check the dimensions of equipment parts.1.3 Correctly record all measurements and observations during an inspection.1.4 State the difference between visual and dimensional inspection.1.5 Follow the inspection procedure for a specific piece of equipment.
2. Use basic testing techniques to assess equipment condition and performance.	<ul style="list-style-type: none">2.1 Select the correct testing equipment for a given task.2.2 Set up and perform a basic test on equipment according to a written procedure.2.3 Collect and record data from the equipment test.2.4 Follow safety precautions while performing testing activities.
3. Interpret inspection results to identify potential defects or areas of concern.	<ul style="list-style-type: none">3.1 State the meaning of inspection results to show potential defects.3.2 Explain what a measurement that is outside of the tolerance range means.3.3 Identify areas of concern based on the recorded results.3.4 Explain the importance of documenting all findings, including those that are within tolerance.
4. Complete inspection documentation in accordance with industry procedures.	<ul style="list-style-type: none">4.1 Fill in an inspection report with all required information.4.2 Complete documentation clearly and accurately.4.3 Submit completed documentation to the correct person or department.4.4 State why accurate and timely documentation is essential.4.5 File completed inspection reports in the correct location.

QC0017-03- Health, Safety, and Regulatory Compliance in the Oil and Gas Sector

This unit develops learners’ awareness of health and safety requirements and the importance of regulatory compliance in oil and gas environments. It focuses on hazard identification, the correct use of protective equipment, adherence to workplace procedures, and understanding key regulations. The unit supports safe working practices and promotes responsibility in maintaining a secure operational environment.

Learning Outcome:	Assessment Criteria:
1. Understand key health and safety legislation relevant to oil and gas operations.	<div>1.1 Name three key health and safety regulations for the oil and gas industry.</div> <div>1.2 Explain the main purpose of health and safety legislation.</div> <div>1.3 State the legal duties of an employee regarding health and safety.</div> <div>1.4 Describe the purpose of a risk assessment.</div>
2. Identify workplace hazards and implement basic safety control measures.	<div>2.1 Identify three common workplace hazards during quality control activities.</div> <div>2.2 Explain the risk associated with each identified hazard.</div> <div>2.3 State a control measure to reduce the risk of each hazard.</div> <div>2.4 Apply a basic control measure to make an activity safer.</div> <div>2.5 Explain the hierarchy of control measures for reducing risk.</div>
3. Apply safe working practices during inspection and quality control activities.	<div>3.1 Follow safe working practices for a given task.</div> <div>3.2 Correctly use all personal protective equipment (PPE) required for an activity.</div> <div>3.3 Keep the work area clean and tidy to prevent accidents.</div> <div>3.4 Report unsafe conditions or incidents to a supervisor.</div>
4. Ensure compliance with environmental and operational regulations in quality processes.	<div>4.1 Check that work activities follow environmental regulations.</div> <div>4.2 Explain the purpose of a specific environmental regulation.</div> <div>4.3 Follow procedures to dispose of waste materials correctly.</div> <div>4.4 State the importance of following operational regulations.</div> <div>4.5 Give an example of how quality control activities can impact the environment.</div>

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