ICTQual AB

Qualification Specification

ICTQual AB Level 3 Certificate in Quality Control Construction

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ICTQual AB's

Level 3 Certificate in Quality Control Construction

Contents

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

In the contemporary construction landscape, the demand for rigorous quality control has never been more critical. The ICTQual AB Level 3 Certificate in Quality Control Construction is a professionally designed qualification that addresses this need head-on. It serves as a vital entry point for individuals seeking to build or advance their careers in the construction industry by specializing in quality assurance. This course is not merely a theoretical exercise; it is a blend of foundational knowledge and practical application. Learners are introduced to the core principles of quality management, from understanding and interpreting complex project documentation to the hands-on inspection of materials and on-site work. The curriculum is structured to empower you with the essential skills to identify potential defects, document non-conformities, and support corrective actions, ensuring that projects meet specified quality benchmarks and regulatory standards.

Objectives

Upon completion of this qualification, learners will be able to:

- Understand and interpret quality management systems and their application in construction.
- Apply the principles of quality control to various stages of a construction project.
- Identify potential quality issues and implement effective corrective actions.
- Interpret and evaluate relevant project information, such as blueprints, specifications, and quality plans.
- Use and maintain quality assurance documentation, including inspection reports and test records.

Aims

The aims of this qualification are to:

- Equip learners with the factual, procedural, and theoretical knowledge required to perform quality control tasks in a construction environment.
- Develop learners' ability to address problems that are well-defined but may be complex and non-routine, such as resolving on-site quality discrepancies.
- Foster an awareness of the nature of quality control within the construction industry and its critical role in project success.
- Encourage an understanding of different perspectives and approaches to quality management within the area of work, such as lean construction or ISO 9001 standards.

Targeted Audience

This qualification is suitable for:

- Construction professionals already working in roles such as site supervisors, quality assurance technicians, or project coordinators who need to formalize their skills.
- Individuals entering the construction sector who wish to specialize in quality control and gain a foundational understanding of the field.
- Apprentices or trainees on a construction-related programme.
- Anyone seeking to demonstrate a solid understanding of quality management principles in a construction context for career advancement.

Certification Framework

Qualification title	ICTQual AB Level 3 Certificate in Quality Control Construction
Course ID	QC0043
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

To enrol in ICTQual AB Level 3 Certificate in Quality Control Construction, learner must meet the following entry requirements:

- **Age Requirement:** Learners must be 18 years of age or older.
- **Educational Background:** A basic understanding of construction processes and terminology is recommended.
- **Work Experience:** Completion of a Level 2 qualification in a related field (such as construction, engineering, or quality control) is preferred but not mandatory.
- **English Proficiency:** Good written and verbal communication skills in English are required.

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**
QC0043-01	Fundamentals of Quality Control in Construction Projects
QC0043-02	Construction Materials Testing and Inspection Techniques
QC0043-03	Safety Standards and Compliance in Construction Quality Management

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:** hold a minimum of a Level 5 qualification (or its equivalent) in a relevant construction field, or have demonstrable industry experience in a role such as a construction assistant, site labourer, or tradesperson.
- ✓ **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

QC0043-01- Fundamentals of Quality Control in Construction Projects

This unit provides a foundational understanding of quality control (QC) in construction. It covers the principles of quality management systems, the roles and responsibilities of personnel, and the interpretation of project documentation. Learners will grasp the importance of QC for project success and learn to identify how poor-quality impacts schedules and costs.

Learning Outcome:	Assessment Criteria:
1. **Understand the principles and importance of quality control in construction.**	1.1 Explain the main reasons why quality control is important for a construction project. 1.2 Describe the basic principles of quality control in construction. 1.3 Explain the difference between quality control and quality assurance. 1.4 Describe how poor quality can affect a construction project.
2. **Identify common quality issues and methods to prevent construction defects.**	2.1 Identify at least four common quality issues that can happen in construction projects. 2.2 Describe how each of these issues can be prevented. 2.3 Explain how to inspect a site to find potential problems early. 2.4 Recognise the importance of using the right tools and materials to avoid defects. 2.5 List three ways that teamwork helps to prevent quality issues.
3. **Apply basic quality assurance techniques within construction project workflows.**	3.1 Use a project plan to identify key stages for quality checks. 3.2 Create a simple checklist to check the quality of a specific task. 3.3 Explain how to use a basic quality assurance document. 3.4 Describe the process for reporting a quality issue on a site.
4. **Recognise the roles and responsibilities involved in construction quality management.**	4.1 Identify the main roles and responsibilities of a quality control inspector. 4.2 Describe how the project manager and the quality control team work together. 4.3 Explain the responsibilities of a site worker in maintaining quality. 4.4 Discuss the importance of clear communication between all people on a project.

4.5 Recognise the role of the client in defining quality standards.

QC0043-02- Construction Materials Testing and Inspection Techniques

This unit focuses on the practical testing and inspection of construction materials like concrete, steel, and timber. It covers both on-site and lab methods, emphasizing accurate data collection, visual inspection, and the interpretation of results. The unit teaches how to identify non-compliant materials and ensure they meet project specifications.

Learning Outcome:	Assessment Criteria:
1. Demonstrate knowledge of standard material testing procedures used in construction.	1.1 Describe the purpose of material testing in construction. 1.2 Explain two common tests for concrete strength. 1.3 Identify the equipment needed to perform a basic soil compaction test. 1.4 Explain how a material test can confirm if a material is suitable for use.
2. Conduct basic inspections to evaluate the quality of construction materials.	2.1 Perform a visual inspection of a delivery of steel bars. 2.2 Check a batch of concrete for correct slump and consistency. 2.3 Use basic tools to measure the dimensions of a timber beam to see if it meets standards. 2.4 Identify signs of damage or incorrect storage on building materials. 2.5 Explain how to correctly label and store a material sample.
3. Interpret test results to determine compliance with relevant specifications and standards.	3.1 Read a simple test report to find the key results. 3.2 Compare the test results to the required project standards. 3.3 Explain what a "pass" or "fail" result means for a material. 3.4 Discuss what to do when a material fails a test.
4. Understand the importance of documentation and traceability in material testing.	4.1 Create a simple record of a material inspection, including date and time. 4.2 Explain why it is important to track where materials come from. 4.3 Describe how proper documentation helps to prevent future problems. 4.4 Identify the key information that should be included on a material's test report. 4.5 Explain the process of signing off on a material test report.

QC0043-03- Safety Standards and Compliance in Construction Quality Management

This unit explores the essential link between safety and quality control. It provides an overview of key health and safety regulations (e.g., CDM Regulations) and how to integrate them into quality management. Learners will understand how to identify and mitigate safety risks related to substandard work, promoting a safe working environment.

Learning Outcome:	Assessment Criteria:
1. Understand the relationship between safety and quality in construction operations.	1.1 Explain why a safe construction site often has high quality work. 1.2 Describe how an unsafe site can lead to defects and poor quality. 1.3 Identify three examples where a safety issue is also a quality issue. 1.4 Explain how a focus on quality can make a site safer.
2. Identify key safety regulations and their role in quality control processes.	2.1 Identify at least three important safety regulations for a construction site. 2.2 Describe the purpose of each of these regulations. 2.3 Explain how following these regulations helps to maintain quality. 2.4 Describe the role of a safety officer in checking for both safety and quality. 2.5 Discuss the consequences of not following safety regulations.
3. Apply compliance measures to ensure adherence to safety and quality standards.	3.1 Use a safety checklist to inspect a work area for hazards. 3.2 Explain how to properly use personal protective equipment (PPE). 3.3 Describe the steps to take when a safety hazard is found. 3.4 Demonstrate correct handling and storage of materials to meet both safety and quality standards.
4. Recognise the importance of risk assessment in maintaining site safety and quality assurance.	4.1 Define what a risk assessment is. 4.2 Explain why a risk assessment is needed before starting a new task. 4.3 Describe the basic steps of a risk assessment. 4.4 Identify potential risks on a construction site. 4.5 Explain how a risk assessment can prevent both accidents and quality problems.

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