



QualCert Level 1 Diploma in Civil Technology

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QualCert Qualification number: QC02001

Qualification Specification

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About QualCert

QualCert is a globally recognized awarding body based in the United Kingdom, renowned for its commitment to excellence in Quality Assurance (QA) and Quality Control (QC) education and training. Specializing in delivering high-quality qualifications, QualCert addresses the evolving needs of international learners, professionals, and industries seeking expertise in QA and QC.

Dedicated to fostering innovative and flexible learning pathways, QualCert provides learners with the skills, knowledge, and practical competencies required to excel in dynamic quality-focused professional environments. The organization adheres to international qualification frameworks and standards, ensuring its certifications are globally recognized and highly applicable across diverse sectors.

The vision of QualCert is to establish itself as a global benchmark in quality education and skills development within Quality Assurance and Quality Control. Its mission is to equip individuals and organizations with internationally recognized qualifications that enhance employability, professional productivity, and career progression in QA/QC disciplines.

Course Overview

The **QualCert Level 1 Diploma in Civil Technology** is an entry-level qualification designed to introduce learners to the fundamental principles, tools, and practices used in the civil engineering and construction industry.

This programme focuses on:

- Basic construction knowledge
- Essential technical skills
- Workplace awareness and safety

At Level 1, the emphasis is on **understanding, awareness, and simple application**, rather than complex analysis or design.

Learners will gain exposure to:

- Construction materials
- Basic drawing interpretation
- Site operations
- Health and safety practices

This qualification acts as a **foundation pathway** into:

- Civil engineering careers
- Construction trades
- Further technical education

Course Aims

The qualification aims to:

- Provide foundational knowledge of civil engineering and construction practices
- Develop basic technical and practical skills required in construction environments
- Promote safe working practices and awareness of hazards
- Introduce learners to construction tools, materials, and processes
- Prepare learners for further study at Level 2 and above

Learning Objectives

Upon completion, learners will be able to:

- Identify basic civil engineering concepts and terminology
- Recognize common construction materials and their uses
- Understand simple construction drawings and symbols
- Demonstrate awareness of health and safety practices on site
- Use basic tools and equipment safely

- Assist in simple construction-related tasks

Target Audience

This qualification is designed for:

- School leavers seeking entry into construction careers
- Beginners with no prior experience in civil engineering
- Individuals interested in vocational and technical education
- Entry-level workers in construction or related industries
- Learners preparing for apprenticeships

Qualification Framework

Qualification Title	QualCert Level 1 Diploma in Civil Technology
Qualification Duration	3 to 6 months
Grading Type	Pass / Fail
Competency Evaluation	Coursework / Assignments / Evidence Based

Assessment Processes

Stage	Details
Internal Assessment and Verification	• Conducted by staff at the Approved Training Centre (ATC) to ensure qualification standards are met. • Internal Quality Assurance (IQA) by designated centre staff to maintain assessment integrity.
External Quality Assurance	• Overseen by QualCert verifiers who periodically review assessment and IQA procedures. • Ensures adherence to standards and consistency across all ATCs.

Entry Requirements

Age: 16+

Education: Basic secondary education

English Competency: Basic Understanding

Qualification Structure

The QualCert Level 1 Diploma in Civil Technology comprises 30 credits, with a Total Qualification Time (TQT) of 180 hours, including 120 Guided Learning Hours (GLH).

Mandatory Units				
Unit Ref No	Unit Name	Credits	GLH	TQT
QC02001-1	Introduction to Civil Technology and Construction Industry	5	20	30
QC02001-2	Basic Construction Materials and Their Uses	5	20	30
QC02001-3	Site Safety and Health Awareness	5	20	30
QC02001-4	Tools, Equipment, and Basic Handling Techniques	5	20	30
QC02001-5	Fundamentals of Building Construction Processes	5	20	30
QC02001-6	Introduction to Site Practices and Work Procedures	5	20	30

Centre Requirements

Centres delivering the QualCert Level 1 Diploma in Civil Technology must uphold high standards to ensure quality learning, assessment integrity, and successful learner outcomes. Centres are required to provide qualified staff, appropriate facilities, and access to the necessary resources to deliver advanced pharmaceutical training. Meeting these requirements ensures learners receive a professional, engaging, and internationally recognised educational experience.

Qualified and Competent Teaching Staff

- Employ instructors with advanced qualifications and professional experience in pharmaceutical technology, quality assurance, or related fields
- Ensure staff maintain up-to-date knowledge of manufacturing practices, regulatory standards, and quality systems
- Provide ongoing professional development and training to teaching staff to maintain excellence in delivery

Adequate Learning Facilities and Resources

- Provide modern classrooms, laboratories, or online learning platforms to support interactive and practical learning
- Ensure access to up-to-date pharmaceutical reference materials, case studies, and digital tools
- Maintain safe and inclusive environments suitable for laboratory work, research, and practical exercises

Robust Assessment and Quality Assurance Systems

- Implement clear and consistent assessment policies aligned with qualification standards
- Maintain internal quality assurance processes to monitor teaching, assessment, and learner performance
- Regularly review assessment methods to ensure relevance and alignment with industry best practices

Comprehensive Learner Support

- Provide academic guidance, technical assistance, and pastoral care to support learner success
- Ensure accessibility for learners with disabilities or specific learning needs through reasonable adjustments

- Maintain effective communication channels for feedback, queries, and learner support

Compliance with Regulatory, Health, and Safety Standards

- Adhere to legal, ethical, and health and safety regulations in all teaching and practical activities
- Keep accurate learner records, attendance, and assessment documentation
- Follow data protection and confidentiality protocols to safeguard learner information

Support for Candidate

Supporting Materials for Candidates

- Enable tracking of learners' progress toward achieving specified learning outcomes and assessment criteria.
- Provide clear guidance on accessing QualCert policies and procedures.
- Establish robust mechanisms for Internal and External Quality Assurance personnel to verify and authenticate evidence efficiently.

Assessments Requirements

This qualification consists of 6 mandatory assignments designed to assess the learner's understanding and practical application of the required skills and knowledge. The key elements of the assessment framework include:

- **Comprehensive Assignment Structure:**
The assignments are designed to cover a range of topics within the qualification, ensuring that learners demonstrate their competence across all essential areas.
- **Pass Requirement:**
Learners must successfully complete all 6 assignments to meet the requirements for certification. Each assignment must meet the specified criteria and demonstrate sufficient understanding and application of the subject matter.
- **Assessment Process:**
Each assignment is reviewed and marked by a qualified assessor, with feedback provided to support learner development.
- **Final Completion Criteria:**
The successful completion of all assignments is necessary for certification. Only

learners who meet the required standards across all assignments will be awarded the qualification.

Quality Assurance & Verification:

QualCert applies a rigorous, multi-layered quality assurance system to ensure the reliability, consistency, and integrity of all assessments and results.

1. Internal Quality Assurance (IQA)

Conducted by the approved training centre:

- **Assignment Evaluation:**
Centre-approved Assessors and Internal Quality Assurers (IQAs) review the assignments to ensure they meet the assessment criteria and learning outcomes.
- **Standardisation:**
Regular standardisation sessions are held to maintain consistency in assessment and marking practices across all centre staff.
- **Feedback & Support:**
IQAs ensure that learners receive constructive feedback to aid their progress and improve future submissions.

2. External Quality Assurance (EQA)

Conducted by QualCert:

- **Independent Verification:**
QualCert's External Quality Assurers (EQAs) verify the completed assignments and assess the quality and fairness of the marking process.
- **Centre Audits:**
EQAs audit the centre's compliance with QualCert's quality assurance standards, reviewing assessment practices, learner records, and overall delivery.
- **Final Certification:**
After satisfying the EQA's verification process, QualCert will officially issue the certification to the learner.

Units – Learning Outcomes & Assessment Criteria

Unit 01 – Introduction to Civil Technology and Construction Industry

Learning outcome

The learner will:

Assessment criterion

The learner can:

01.Explain the fundamental purpose and scope of civil technology in construction industry.

1.1 Identify basic functions of civil technology within construction activities
1.2 Describe key areas of work within the construction industry
1.3 Outline importance of civil technology in infrastructure development
1.4 Recognize different types of construction projects and their purposes

02.Identify key roles and responsibilities of workers within construction industry environments.

2.1 List common job roles found on construction sites
2.2 Describe basic responsibilities of construction workers and supervisors
2.3 Recognize importance of teamwork within construction operations
2.4 Explain communication roles among different construction team members

03.Describe different sectors and types of construction industry activities and operations.

3.1 Identify residential, commercial, and infrastructure construction sectors
3.2 Describe characteristics of each construction sector type
3.3 Recognize examples of projects within each sector
3.4 Explain basic differences between small-scale and large-scale construction

04.Understand basic terminology commonly used within civil technology and construction fields.

4.1 Define common construction-related terms and vocabulary
4.2 Identify frequently used site terminology in practical situations
4.3 Use basic construction terms correctly in simple explanations

	4.4 Recognize importance of accurate terminology in communication
05. Recognize importance of civil technology in supporting sustainable and safe construction development.	5.1 Identify basic concepts of sustainability in construction 5.2 Describe importance of safety within civil technology practices 5.3 Recognize environmental considerations in construction activities 5.4 Explain role of civil technology in improving living conditions

Unit 02 – Basic Construction Materials and Their Uses

Learning outcome

The learner will:

Assessment criterion

The learner can:

01 Identify common construction materials and describe their basic characteristics and properties	1.1 List commonly used construction materials such as concrete, wood, and steel 1.2 Describe physical properties of basic construction materials 1.3 Identify uses of each material in simple construction tasks 1.4 Recognize differences between natural and manufactured materials
02 Understand appropriate uses of different materials in basic construction applications	2.1 Match materials with their suitable construction uses 2.2 Describe reasons for selecting specific materials for tasks 2.3 Identify limitations of commonly used materials 2.4 Recognize importance of material suitability in construction
03 Recognize methods of handling, storing, and maintaining construction materials safely	3.1 Describe safe handling techniques for basic materials 3.2 Identify correct storage practices for different materials 3.3 Recognize risks associated with improper material handling 3.4 Explain importance of protecting materials from damage
04 Identify environmental and safety considerations related to construction material usage	4.1 Recognize environmental impacts of material usage 4.2 Describe safe disposal methods for construction materials 4.3 Identify hazards associated with certain materials 4.4 Explain importance of reducing waste in construction

05 Understand basic material measurement concepts used in simple construction activities	5.1 Identify units used for measuring construction materials 5.2 Perform simple estimations of material quantities 5.3 Recognize importance of accurate measurements in construction 5.4 Describe consequences of incorrect material estimation
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Unit 03 – Site Safety and Health Awareness

Learning outcome

The learner will:

Assessment criterion

The learner can:

01 Understand importance of health and safety practices within construction site environments.	1.1 Define basic health and safety concepts 1.2 Describe importance of maintaining safety on construction sites 1.3 Identify common causes of accidents in construction 1.4 Recognize role of workers in ensuring site safety
02 Identify common hazards present on construction sites and their potential risks.	2.1 List typical hazards found on construction sites 2.2 Describe risks associated with identified hazards 2.3 Recognize warning signs and safety indicators 2.4 Explain importance of hazard awareness
03 Understand use of personal protective equipment in maintaining workplace safety standards.	3.1 Identify types of personal protective equipment (PPE) 3.2 Describe purpose of each PPE item 3.3 Demonstrate correct usage of basic PPE 3.4 Recognize importance of wearing PPE consistently
04 Recognize basic emergency procedures and responses within construction site situations.	4.1 Identify common emergency situations on construction sites 4.2 Describe basic emergency response procedures 4.3 Recognize evacuation routes and assembly points 4.4 Explain importance of reporting emergencies promptly
05 Understand importance of maintaining clean and organized work environments for safety.	5.1 Describe benefits of keeping work areas clean 5.2 Identify risks associated with poor housekeeping

	5.3 Demonstrate simple methods for maintaining cleanliness 5.4 Recognize impact of organization on safety and productivity
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Unit 04 – Tools, Equipment, and Basic Handling Techniques

Learning outcome

The learner will:

Assessment criterion

The learner can:

01 Identify common construction tools and describe their basic functions and uses.	1.1 List commonly used hand tools in construction 1.2 Describe functions of each identified tool 1.3 Recognize appropriate uses of tools for tasks 1.4 Identify risks associated with incorrect tool usage
02 Understand safe handling and operation of basic construction tools and equipment.	2.1 Describe safe handling procedures for tools 2.2 Demonstrate correct use of basic tools 2.3 Identify safety precautions during tool operation 2.4 Recognize consequences of improper tool handling
03 Recognize importance of tool maintenance and proper storage practices	3.1 Describe basic tool maintenance procedures 3.2 Identify correct storage methods for tools 3.3 Recognize impact of poor maintenance on performance 3.4 Explain importance of keeping tools in good condition
04 Identify different types of simple equipment used in construction activities.	4.1 List basic construction equipment types 4.2 Describe functions of simple equipment 4.3 Recognize differences between tools and equipment 4.4 Identify safety considerations when using equipment
05 Understand basic manual handling techniques to prevent injuries and accidents	5.1 Describe correct lifting techniques 5.2 Identify risks associated with improper lifting 5.3 Demonstrate safe carrying practices 5.4 Explain importance of posture during manual handling

Unit 05 – Fundamentals of Building Construction Processes

Learning outcome

The learner will:

Assessment criterion

The learner can:

01 Understand basic stages involved in simple building construction processes and activities.	1.1 Identify main stages of building construction 1.2 Describe sequence of construction activities 1.3 Recognize importance of planning in construction 1.4 Explain role of each stage in project completion
02 Identify basic construction methods used in simple building structures and projects.	2.1 Describe common construction methods 2.2 Identify materials used in each method 2.3 Recognize differences between construction techniques 2.4 Explain advantages of simple construction methods
03 Recognize role of foundations and structural elements in building construction.	3.1 Define purpose of building foundations 3.2 Identify basic structural elements such as walls and roofs 3.3 Describe functions of structural components 3.4 Recognize importance of strong foundations
04 Understand basic construction drawings and simple interpretation of building plans.	4.1 Identify basic elements of construction drawings 4.2 Recognize symbols used in simple plans 4.3 Describe purpose of construction drawings 4.4 Interpret simple layout drawings with guidance
05 Recognize importance of quality and accuracy in construction processes and activities	5.1 Define quality in construction context 5.2 Identify importance of accurate work 5.3 Recognize consequences of poor-quality construction 5.4 Explain need for following specifications

Unit 06 – Introduction to Site Practices and Work Procedures

Learning outcome

The learner will:

Assessment criterion

The learner can:

01 Understand basic site practices followed during construction work activities and operations.	1.1 Identify common site practices 1.2 Describe daily work routines on construction sites 1.3 Recognize importance of following site rules 1.4 Explain role of supervision in site practices
02 Recognize importance of following work procedures and instructions on construction sites.	2.1 Describe purpose of work procedures 2.2 Identify types of instructions given on site 2.3 Recognize risks of not following procedures 2.4 Explain importance of clear communication
03 Understand basic documentation used within construction site activities and reporting.	3.1 Identify common site documents 3.2 Describe purpose of basic reports 3.3 Recognize importance of record keeping 3.4 Explain role of documentation in construction
04 Identify roles of supervision and teamwork in maintaining efficient site operations.	4.1 Describe role of supervisors on site 4.2 Identify importance of teamwork 4.3 Recognize benefits of cooperation among workers 4.4 Explain impact of teamwork on productivity
05 Recognize importance of punctuality, discipline, and responsibility in construction work environments	5.1 Define punctuality and discipline in workplace 5.2 Describe importance of responsibility in tasks 5.3 Recognize impact of behavior on work quality 5.4 Explain importance of professional conduct on site



QualCert, the leading UK-based awarding body dedicated to providing a diverse range of technical and professional qualifications in the fields of occupational health and safety, quality control/quality assurance, civil/electrical/mechanical technology, ISO standards (Lead Auditors), and management courses.

At QualCert, we are committed to empowering individuals and organizations with the knowledge and skills necessary to excel in their respective industries. Whether you're looking to enhance your expertise in health and safety practices, quality management systems, or engineering technologies, our comprehensive suite of certifications caters to a wide spectrum of career paths and professional development goals.

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