



TQUK Level 3  
Certificate in Design,  
Engineer, Construct!  
The Digital Built  
Environment (RQF)

603/2052/7



# Qualification Summary

## Key Information

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**Level**

Level 3

**Sector**

Construction

**Internal/External**

External

**Qualification Type**

Vocationally-Related Qualification

**Operational Start Date**

01/09/2017

**Recommended Minimum Age**

16

**Total Credits**

30

**Qualification Status**

Available To Learners

**Assessment Methods**Portfolio of Evidence  
Written Examination**SSA**

05.2 Building and construction

**Overall Grading Type**

Graded

**Permitted Delivery Types**Blended  
Classroom  
Distance  
Online**Guided Learning Hours**

180

**Grading Scale**

A\*/A/B/C/D/E



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**Visit [www.tquk.org](http://www.tquk.org)  
in order to stay up to  
date with the latest  
qualification news.**





## Welcome to TQUK

TQUK is an Awarding Organisation recognised by the Office of Qualifications and Examinations Regulation (Ofqual) in England and CCEA Regulation in Northern Ireland.

TQUK offers qualifications which are regulated by Ofqual and, in some cases, by CCEA Regulation, sit on the Regulated Qualifications Framework (RQF) and are listed on the [Register of Regulated Qualifications](#) website.

Our qualifications are designed to support and encourage learners to develop their knowledge and skills. This development may result in progression into employment or career development in the workplace. Our qualifications also allow learners to progress onto further qualifications.

Please visit our website [www.tquk.org](http://www.tquk.org) for news of our latest developments.



## Qualification Specifications

Each qualification which TQUK offers is supported by a specification that includes all the information required by a centre to deliver a qualification. Information in the specification includes unit information, assessment and learning outcomes.

The aim of the Qualification Specification is to guide a centre through the process for delivering the qualification. Please read it alongside the TQUK Centre Handbook.

Details of TQUK's procedures and policies can be found on [www.tquk.org](http://www.tquk.org). Qualification specifications can be found also be found on [www.tquk.org](http://www.tquk.org). Please check the website regularly to ensure that you are using the most up to date version.

If you have any further questions, please contact [TQUK](#).



## Brand Guidelines

TQUK is a professional organisation and use of its name and logo is restricted. TQUK's name may only be used by recognised centres to promote TQUK qualifications. Recognised centres may use the logo for promotional materials such as on corporate/business letterheads, pages of a centre's website relating to TQUK qualifications, printed brochures, leaflets or exhibition stands.

When using TQUK's logo, there **must** be no changes or amendments made to it, in terms of colour, size, border and shading. The logo **must** only be used in a way that easily identifies it as TQUK's logo. Any representation of TQUK's logo **must** be done so as a representation of the true logo.

It is the responsibility of the centre to monitor the use and marketing of TQUK's logos and qualifications on their own materials as well as on those of any re-sellers or third parties that they may use. TQUK **should** be made aware of relationships with re-sellers or third parties including any additional websites that the centre will use in addition to their own website. If this information is changed TQUK **should** be notified. TQUK is required to monitor centre's websites and materials to ensure that learners are not being misled.

If a centre is no longer a TQUK recognised centre it **must** immediately discontinue the use of TQUK's logo, name and qualifications.



# Qualification Details

## The Qualification

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The TQUK Level 3 Certificate in Design, Engineer, Construct! The Digital Built Environment (RQF) is regulated by Ofqual.

## Qualification Purpose

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Design Engineer Construct! Level 3 is an advanced programme for learners looking to increase their knowledge of professional practice in the digital Built Environment and provides an excellent opportunity to advance knowledge gained at Level 2 and extend knowledge and practice required to progress to the professional workplace and/or university.

Learners develop, design, deliver and evaluate a fit for purpose, functional building and can be based on their own interpretation of a real project brief. Their building should be highly sustainable and inclusive and enable learners to demonstrate advanced knowledge and use a range of industry process and digital skills.

The qualification fosters the knowledge and skills required to define, develop, deliver and evaluate a digital construction project from concept to handover. It encourages learners to focus on the impact on the end user, the wider community and the environment, setting standards for resource efficiency, and committing to sustainable procurement. Learners will understand the need for accurate technical information regarding the proposed site, and the constraints and challenges a site can present.

Building types they might consider are:

- an office block
- a housing project e.g. for the elderly, sheltered accommodation
- an outdoor activity centre
- a mixed-use development e.g. apartments and integrated cafe
- a school for special educational needs e.g. Pictor schools

Learners can use an existing site as the building site location of their building and/or use web based mapping programmes and other technology platforms to access a range of industry specific site information.

Learners are empowered to take ownership of their own project, focusing on a justifiable need for the end users they have identified.

Where possible, we recommend learners are given access to professional volunteers e.g. through the Class Of Your Own Adopt A School scheme and Professional Body outreach programmes. The Design Engineer Construct! Learning Programme (now commonly known as DEC) has gained a solid reputation as "the most innovative, challenging and relevant secondary school curriculum development in recent years, championed by respected leaders, and referenced in numerous national reports.

## Entry Requirements

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The qualification is accessible to learners in secondary schools, University Technical Colleges, Further Education Colleges, International Schools and other educational institutions.

There are no specific entry requirements, however, learners should have a minimum of Level 2 literacy and numeracy skills. We recommend that learners have achieved a minimum GCSE Mathematics grade 5 (C). This qualification is suitable for learners aged 16 years and above.

Centres should ensure that any learner registered on a TQUK qualification undertakes an initial assessment to ensure they have the ability to complete the course in full. The outcomes of the process inform:

- Early judgements about the learner
- The focus and level of learning
- The skills and needs that will be developed and supported

A review of a learners prior achievements, well-managed interviews and diagnostic tests are all suitable forms of initial assessment.

The recognised centre is required to have one or more delivery sites which offer facilities to support the programme of learning and assessment. These must comply with health and safety regulations and have in place appropriate access arrangements. All training and/or assessment sites must include the following facilities:

- A practical space to be used for learning and assessment activities. This should offer multimedia facilities such as data projector and laptop, flipchart and pens.
- Architectural model-making facilities (card, foam board).
- A high specification IT suite and IT hardware (minimum requirements will be advised to each Centre)
- Industry standard design software (advised to each Centre)

## Progression

This qualification will provide opportunity for progress into higher education or employment in the Digital Built Environment. It provides entry to a wide range of career pathways, including Architecture and Architectural Technology, Geospatial and Property Surveying, Quantity Surveying and Cost Management, Civil, Structural and Building Services Engineering and Construction Project Management.

The qualification complements other subject areas at Level 3, such as mathematics, physics, engineering, computer science, art, geography, business studies and design technologies to broaden the curriculum. Past students have also combined with art and humanities subject we recommend consulting with employers and universities for specific progression requirements. With a range of transferable knowledge and skills, learners can also access wider industry opportunities, for example in the town planning, creative and digital, financial, and legal sectors.

## Structure

This qualification consists of six mandatory units. Learners must successfully complete all six mandatory units to achieve the qualification. Unit specifications are available upon request from TQUK

### Mandatory Units

Unit ref.	Title	Level	GLH	Credit Value
A/615/8835	Defining a sustainable construction project	3	60	10
F/615/8836	Developing a sustainable construction project	3	60	10
R/616/9176	Investigate design, structural and service aspects of a sustainable construction project	3	60	10

### Optional Units

*There are no optional units for this qualification.*

### Barred Units

There are no barred units.

## Duration

### Guided Learning Hours

These hours are made up of all contact time, guidance or supervision of a learner by a lecturer, supervisor, tutor, trainer or other appropriate provider of education or training. Guided Learning Hours for this qualification is 180.

## Directed Study

Learners are expected to study and complete aspects of their assessment portfolio in their own time. This additional time is expected to be approximately 120 hours over the cycle of the programme.

## Total Qualification Time

This is an estimate of the total length of time it is expected that a learner will typically take to achieve and demonstrate the level of attainment necessary for the award of the qualification i.e. to achieve all learning outcomes.

Total Qualification Time is comprised of GLH and an estimate of the number of hours a learner is likely to spend in preparation, study or any other learning including assessment, which takes place as directed by, but not under the supervision of a lecturer, supervisor or tutor. The credit value, where given, for a qualification is determined by TQT, as one credit corresponds to 10 hours of learning. Total Qualification Time for this qualification is 300 hours.

## Grading and Assessment

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Assessment details can be viewed in the full specification.

## Centre Recognition

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To offer any TQUK qualification, each centre must be recognised by TQUK and meet qualification approval criteria. Qualification approval must be confirmed prior to any assessment of learners taking place. It is essential that centres provide learners with access to appropriate support in the form of specialist resources.

The TQUK centre recognition process requires a centre to have in place a number of policies and procedures to protect the learners undertaking a TQUK qualification and the integrity of TQUKs qualifications. The policies and procedures will also support a recognised centres quality systems.

Recognised centres must seek approval for each qualification they wish to offer.

The approval process requires centres to demonstrate that they have the resources, including staff, to deliver and assess the qualification.

## Support from TQUK

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Recognised centres will be able to access support from TQUK whenever necessary. External Quality Assurance activities will be undertaken on a regular basis. TQUK also offers recognised centres the service of a Client Relationship Officer whose role is to support centres with any administration queries or qualification support.

## Qualification Delivery

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### Pre-Qualification Information

All learners should be given appropriate pre-course information regarding any TQUK qualifications. The information should explain about the qualification, the fee, the form of the assessment and any entry requirements or resources needed to undertake the qualification.

### Initial Assessment

Centres should ensure that any learner registered on a TQUK qualification undertakes some form of initial assessment. The initial assessment should be used to inform a teacher/trainer on the level of the learners current knowledge and/or skills. Initial assessment can be undertaken by a teacher/trainer in any form suitable for the qualification to be undertaken by the learner/s. It is the centres responsibility to make available forms of initial assessment that are valid, applicable and relevant to TQUK qualifications.

### Learner Registration

Once approved to offer a qualification the centre should register learners before any assessment can take place. Recognised centres

must follow TQUKs procedures for registering learners. For short courses, TQUK offer the option of registering a course and booking a number of places. Learners are then added once the course has taken place, thus acknowledging situations where substitutions are made at short notice to meet business needs.

## Requirements

### Trainer/Assessor

Tutors/trainers who deliver a TQUK qualification must possess a teaching qualification appropriate for the level of qualification they are delivering. This can include the below:

- Further and Adult Education Teachers Certificate
- Cert Ed/PGCE/B Ed/M Ed
- PTLLS/CTLLS/DTLLS
- Level 3 Award/4 Certificate/5 Diploma in Education and Training

Assessors who assess a TQUK qualification must possess an assessing qualification appropriate for the level of qualification they are delivering. This can include:

- Level 3 Award in Assessing Competence in the Work Environment
- Level 3 Award in Assessing Vocationally Related Achievement
- Level 3 Award in Understanding the Principles and Practices of Assessment
- Level 3 Certificate in Assessing Vocational Achievement
- A1 or D32/D33

Specific requirements for assessors may be indicated in the assessment strategy/principles identified in individual unit specifications.

### Internal Quality Assurer

Centre staff who undertake the role of an Internal Quality Assurer (IQA) for TQUK qualifications must possess or be working towards a relevant qualification. This could include:

- 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 Conduct internal quality assurance of the assessment process
- D34 Internally verify the assessment process

It is best practice that those who quality assure qualifications also hold one of the assessing qualifications outlined above. IQAs must follow the principles set out in Learning and Development NOS 11 Internally monitor and maintain the quality of assessment.

All staff members involved with the qualification (training, assessing or IQA) will also need to be occupationally competent in the subject area being delivered. This could be evidenced by a combination of the below:

- A higher level qualification in the same subject area as the qualification approval request.
- Experience of the delivery/assessment/IQA of the qualification/s requested.
- Work experience in the subject area of the qualifications.

Staff members will also be expected to have a working knowledge of the requirements of the qualification, and a thorough knowledge and understanding of the role of tutors/assessors and internal quality assurance. They are also expected to undertake continuous professional development (CPD) to ensure they are up to date with work practices and developments in the qualifications they are involved with.

## Centre Devised Assessment

We will work with you to develop your CDA, but please be aware that in some cases this can take time and learners are not permitted to sit their assessments until this process has been completed. With this in mind we encourage centres to talk to us about their CDAs as early on in the process as possible.

## Useful Resources

### Websites

Health and Safety Executive [www.hse.gov.uk](http://www.hse.gov.uk)

Office of Qualifications and Examinations Regulation [www.ofqual.gov.uk](http://www.ofqual.gov.uk)

Register of Regulated Qualifications [register.ofqual.gov.uk](http://register.ofqual.gov.uk)

Skills for Health [www.skillsforhealth.org.uk](http://www.skillsforhealth.org.uk)

Skills for Care [/www.skillsforcare.org.uk](http://www.skillsforcare.org.uk)

Education & Skills Funding Agency for public funding information for 14+ learners in England  
<https://www.gov.uk/government/organisations/education-and-skills-funding-agency>

Learning Aim Reference Service (LARS) [www.gov.uk/government/publications](http://www.gov.uk/government/publications)

DAQW Database of Approved Qualifications [www.daqw.org.uk](http://www.daqw.org.uk) for public funding in Wales

Department for the Economy [www.economy-ni.gov.uk](http://www.economy-ni.gov.uk)

Department of Education [www.deni.gov.uk](http://www.deni.gov.uk) for public funding in Northern Ireland.

