



TQUK Level 1 Certificate in Design Engineer Construct! The Digital Built Environment (RQF)

Purpose Statement

Qualification Number: 603/1991/4

Qualification Purpose Statement

Qualification Regulation Details

Qualification regulator	<p>This qualification is regulated by Ofqual in England, sits on the Regulated Qualifications Framework (RQF) and is listed on the Register of Regulated Qualifications http://register.ofqual.gov.uk/</p> <p>This qualification is regulated by SQA in Scotland and sits on <u>Scottish Credit and Qualifications Framework (SCQF)</u>.</p> <p>This qualification is equivalent to Level 2 on the European Qualifications Framework (EQF). Further information about the EQF can be found at: http://ec.europa.eu/eqf/home_en.htm</p>			
Qualification type	<p>This qualification has been submitted for approval by the Department for Education as a Level 1 Technical Award for inclusion in the 2020 Performance Tables. Technical Awards are broad, high-quality level 1 and level 2 qualifications in non-English Baccalaureate (EBacc) subjects that equip students with applied knowledge not usually acquired through general education. They focus on applied study of a sector or occupational group, including the acquisition of associated practical or technical skills where appropriate.</p>			
Qualification Accreditation Number	603/1991/4	Qualification registration period	3 Years	
Qualification operational start date	01 September 2016	Qualification review date	30 September 2019	
Qualification size	Guided Learning Hours	120	Total Qualification Time/Notional Learning	160
	Directed Study Hours	40	RQF Credit Value/SCQF Credit Point ¹	16

¹ The credit value, where given, for the qualification is determined by TQT in England and Notional Learning Hours in Scotland. One credit corresponds to 10 hours of learning.

Awarding Organisation

The TQUK Level 1 Certificate in Design Engineer Construct! The Digital Built Environment (RQF) is awarded by TQUK. They are a regulated Awarding Organisation recognised by the Office of Qualifications and Examinations Regulation (Ofqual) in England. The purpose of the TQUK Level 1 Certificate in Design, Engineer Construct! The Digital Built Environment is to recognise learning at Level 1 relevant to building design, engineering and construction industry with an emphasis on environmental sustainability.

Qualification Industry Partner

TQUK are committed to ensuring fit for purpose qualifications and work with leading industry experts to secure the requirements of validity. Class Of Your Own Limited are the leading industry experts in education for the digital built environment. This qualification is integral to a suite of qualifications developed from the Design Engineer Construct! ® (DEC) Learning Programmes created by social enterprise Class Of Your Own® Limited (COYO). COYO has licensed the Intellectual Property Rights in the DEC Learning Programme to TQUK, on an exclusive basis for incorporation into the TQUK/COYO Qualifications frameworks, using approaches methods and formats agreed with COYO, for the exclusive purpose of the Parties collaborating in the provision of the TQUK/COYO Qualifications to Centres and learners in the UK.

Qualification Suite

The Design Engineer Construct! The Digital Built Environment suite of qualifications has been developed from the Design Engineer Construct! ® Learning Programme developed by Class Of Your Own Limited to support the Government's 'Building Schools for the Future' school building programme. The purpose of the programme is to develop awareness of the career opportunities for professionals who work behind the scenes in the Architecture, Engineering and Construction ('AEC') industries and bring real world applications to core subjects.

Design Engineer Construct! ® (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 (see Useful Websites and Resources). The suite is progressive and is comprised of the following four qualifications.

- TQUK Level 1 Certificate in Design, Engineer Construct! The Digital Built Environment
- TQUK Level 2 Certificate in Design, Engineer Construct! The Digital Built Environment
- TQUK Level 3 Certificate in Design, Engineer Construct! The Digital Built Environment
- TQUK Level 3 Diploma in Design, Engineer Construct! The Digital Built Environment

The technical awards at Level 1 and 2 give an insight into the industry for 14-16-year old learners. The TQUK Level 3 Diploma in Design, Engineer Construct! The Digital Built Environment is designed specifically to be delivered alongside an additional subject with 3 A Levels at lower 6th. The rationale for learners taking the diploma is to enable access to higher education institutes and higher and degree apprenticeships. TQUK Level 3 Certificate in Design, Engineer Construct! The Digital Built Environment is a shorter version of the diploma that requires completion of three out of the six available units and might be more relevant to learners who are working towards complementary A levels but who would still prefer to participate in an applied learning option.

Qualification Overview

The purpose of the TQUK Level 1 Certificate in Design Engineer Construct! is to recognise learning at Level 1 relevant to digital building design, engineering and construction, with an emphasis on social, economic and environmental sustainability. It is suitable for learners who are interested in pursuing technical and professional careers in the Built Environment, providing them with a solid understanding of the people and processes involved in the development and delivery of building projects.

Qualification Audience

Learners and entry requirements

This qualification is suitable for learners who are interested in pursuing technical and professional careers in the Digital Built Environment, providing them with a solid understanding of the people and processes involved in the development and delivery of building projects. The qualification is suitable for learners in secondary education and above and is accessible 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 literacy and numeracy at minimum of level one.

This qualification is suitable for learners aged 14 years and above.

Learner progression opportunities

Successful learners can progress through the DEC! suite, to Level 3 Design, Engineer Construct! The Digital Built Environment. These are often combined with traditional A levels due to the UCAS points status, or other vocational qualifications, advanced apprenticeships and then to Higher Education institutions to study Architecture, Engineering, Surveying and other Construction related Higher National Diploma and Degree level courses.

Qualification Objective

The qualification objective is to provide a benefit to learners by preparing learners to progress to a qualification in the Digital Built Environment but at a higher level. This qualification also serves as a benefit to learners as some learners may choose to use this to prepare them for employment in the Digital Built Environment.

DEC! qualifications integrate creativity and applied science, technology, engineering and maths to provide recognised qualifications across three levels. In conjunction with a dedicated learning and training programme, DEC! enables learners to develop the knowledge, skills and behaviours fundamental to successful engagement in the professional Built Environment, leading to a range of careers, for example in Architecture, Surveying, Engineering and Management. The TQUK Level 1 Certificate in Design Engineer Construct! The Digital Built Environment is appropriate to learners in secondary schools and offers the opportunity to develop a foundation in a range of skills, knowledge and behaviours which are required for successful engagement in the professional aspects of the digital built environment. This introduces learners to key professional roles and responsibilities in design, engineering and construction. Learners are required to demonstrate scientific and mathematical knowledge and understanding in the context of the built environment. The qualification includes a wide range of general knowledge, understanding and competences and supports progression routes to Level 2 and Level 3 that will benefit any young person aspiring to progress to a professional career.

Qualification structure

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

Unit Title	Unit ref.	GL ²	Directed ³ Study	Unit Credit
Defining a sustainable construction project	F/615/8822	20	10	3
Roles in construction project teams	L/615/8824	60	10	7
Producing a technical design and sharing information	R/615/8825	20	10	3
Planning permission, costing and presenting a sustainable building project	D/615/8830	20	10	3
Total Qualification Time	160			

² GL: Guided learning hours under the direct supervision of a teacher.

³ Directed study is defined as preparation, study or any other self-directed learning and the assessment portfolio.

Qualification Delivery Programme

The qualification is designed to ensure that all learning and assessment is completed within two years. It has been developed from the Design Engineer Construct! ® Learning Programme developed by Class Of Your Own® to support the Government's 'Building Schools for the Future' school building programme. The purpose of the programme is to develop awareness of the career opportunities for professionals who work behind the scenes in the Architecture, Engineering and Construction ('AEC') industries and bring real-world applications to core subjects. The learning programme is designed to encompass all learning outcomes and is designed to be delivered through a combination of innovative theory and practical workshops.

Qualification Assessment Framework

The qualification is assessed by a combination of externally set and internally marked assessments (40%) subject to external quality assurance and an externally set and externally marked examination (60%).

The externally set and marked exams will take place on a date published in advance by TQUK. Exam serves as the synoptic element of the assessment in accordance with DfE requirements.

The externally set and internally marked assessment will take the form of a portfolio and be assessed standardised internally by the recognised centre and externally moderated by TQUK. Dates for submission of work for standardisation and moderation will be published alongside dates for the exams. The portfolio will assess learners across all learning outcomes contained within the units of assessment as indicated in the unit tables contained within the qualification specification.

Learners will be required to sit the exam in conditions as set out in the TQUK Exam and Invigilation Procedure in the TQUK Centre Handbook.

The qualification is graded with grades P/M/D/D*

Qualification support

Industry Bodies	
<p>The qualification is formally supported by the following industry bodies; leaders in the Built Environment sector and represent some of the UK's most respected companies. These include:</p>	<p>Mott MacDonald Topcon Positioning Systems Laing O'Rourke Gardiner & Theobald Willmott Dixon Arup Happold Foundation BAM Balfour Beatty ICES Seddon The Survey Association</p>
Professional Bodies and Specialist Organisations	
<p>The qualification is formally supported by professional bodies and specialist organisations including:</p>	<ul style="list-style-type: none"> • Royal Institution of Chartered Surveyors • Chartered Institute of Building • Chartered Institution of Civil Engineering Surveyors • UK BIM Alliance
Further and Higher Educational Establishments	
<p>The qualification has specific support from the following further education providers:</p>	<ul style="list-style-type: none"> • Atrium Studio • Heathcote School and Science College • St Ambrose Barlow RC High School and Sixth Form College • Clacton Coastal Academy • Norbury Manor Business and Enterprise College for Girls