

Design Engineer Construct! The Digital Built Environment

Level 3 Diploma

EXAM BOARD TQUK Code:
603/1993/8

COURSE CONTENT

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.

STRUCTURE

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

CAREER OPPORTUNITIES

This qualification leads to wide range of careers in the built environment, such as:

Architect, land surveyor, quantity surveyor, civil engineering surveyor, structural engineer, civil engineer, building services engineer, project manager, site manager, facilities manager, planner and ecologist.

Title	Unit ref.	Level	Guided learning hours	Credit value
Defining a sustainable construction project	F/615/8822	3	60	10
Developing a sustainable construction project	F/615/8836	3	60	10
Investigate design, structural and service aspects of a sustainable construction project	R/616/9176	3	60	10
Deliver design, structural and services aspects of a sustainable construction project	D/616/9178	3	60	10
Lifecycle and financial planning for a sustainable construction project	L/615/8838	3	60	10
Evaluating and documenting a sustainable construction project	R/615/8839	3	60	10

ASSESSMENT

The qualification is assessed by a combination of an:

- Internally assessed and externally moderated portfolio (50%)
- Externally set and externally marked examination (50%).

The qualification is graded with grades A*/A/B/C/D/E. The overall grade for the qualifications is calculated using a points-based system. A point score is awarded for each assessment component (exam and portfolio), before being weighted, combined and translated into a grade.

The unit points are then added together to create an overall grade for the portfolio for submission to the awarding organisation.

Portfolio marking scale							
Combined unit score	0-17	18-35	36-53	54-71	72-89	90-98	99-108
Portfolio Grade	Fail	E	D	C	B	A	A*

For a learner to gain an overall pass on the portfolio aspect, they must achieve a minimum pass on each unit of the portfolio.