

Building Information Modelling (BIM)

(Design Engineer Construct [DEC] Award)

What will I learn about?

Design...Engineer...Construct!® (DEC) is a new qualification that offers learners the opportunity to develop a range of skills and knowledge fundamental to successful engagement in technical and professional aspects of the Construction and Built Environment sector of industry.

Supported by organisations such as the Royal Institution of Chartered Surveyors and the Chartered Institution of Civil Engineering Surveyors, students will experience genuine Project Based Learning and work with industry. They will develop core skills and activities of architects, engineers and construction specialists together with the relevant digital skills such as:

- Procedures and protocols in preparing a planning submission.
- Constructing a Building Information Model to support a planning proposal.

This includes the use of Building Information Modelling techniques – a technology based process which uses cutting edge, industry standard software and provides young learners with a range of progressive skills which are in high demand in a wide range of careers.

The Level 3 DEC award is the equivalent of 1 A Level and naturally compliments the Level 3 Civil Engineering Diploma.

How is the course structured?

Module content includes:

- UNIT 1: Defining a Sustainable Construction Project.
- UNIT 2: Developing a Sustainable Construction Project.
- UNIT 3: Investigate Design, Structural and Services Aspects of a Sustainable Construction Project.
- Unit 4: Deliver Design, Structural and Services Aspects of a Sustainable

Construction Project.

- UNIT 5: Lifecycle and Financial planning for a Sustainable Construction Project.
- UNIT 6: Evaluating and Documenting a Sustainable Construction Project

How will my work be assessed?

The Level 3 DEC award is assessed based on coursework and a graded exam at the end of the year.

A key outcome of the Design Engineer Construct!® curriculum is that learners undertake a project encompassing a wide range of skills, activities and experiences linked to the real world of work and the built environment. Students will produce comprehensive e-portfolios that will be ideal to showcase their skills and understanding to future employers or further and higher education.

Where will this course lead to?

As well as the career opportunities outlined in the Civil Engineering subject page, students who complete will acquire the knowledge and skills that will open many new opportunities for them to pursue a professional or technical career in the Built Environment sector. This includes aspirational and rewarding careers such as surveying, architecture, engineering, construction management, sustainability management, and many more.

As students are also awarded UCAS points through completion of this qualification, successful learners will have excellent opportunities to study at university or through a degree apprenticeship.

DEC can help you into these exciting professions and more...

Land Surveyor, Structural Engineer, Architect, Building Services Engineer, Civil Engineering Surveyor, Quantity Surveyor, Facilities Manager, Site Manager, Civil Engineer, Ecologist, Planner.