

Civil Engineering

(BTEC Level 3)

What will I learn about?

A Level 3 BTEC in Civil Engineering will focus on developing skills in design, analysis and evaluation across a range of Civil Engineering topics. Modern infrastructure such as buildings, roads and bridges have all been designed, built and maintained by civil engineering professionals. This course will provide you with the skills and knowledge needed for an exciting career in the Construction industry, such as building surveying, site management, and architecture.

The course provides emerging civil engineers the opportunity to build a foundation of knowledge that will set them up for a career within the sector. Students will learn about structures, sustainability and the built environment and how to manage projects.

How is the course structured?

Module content includes:

- Construction Principles
- Construction Design
- Tendering & Estimating
- Construction Technology
- Health & Safety in Construction
- Graphical Detailing in Construction
- Building Regulations and Control in Construction
- Management of a Construction Project
- Site Engineering for Construction
- Measurement Techniques in Construction
- Further Mathematics for Construction
- Work Experience in the Construction Sector
- Construction in Civil Engineering
- Public Health Engineering
- Highway Construction and Maintenance in Civil Engineering

How will my work be assessed?

The 10 units of work mentioned above include 7 Mandatory Units, 2 of which are externally assessed with 1 examination and 1 controlled assessment. The remaining 3 units, along with the other 5 mandatory units, are optional and are internally assessed with a sample of work externally assessed via the standards verification process.

- The course is split into modules with each module being assessed upon completion.
- Therefore there will be multiple assessment points throughout the year.
- There are three external assessment modules and these will be assessed in either January or May of each year.
- The attained grades for each module will be combined to give an overall grade for the course.

Where will this course lead to?

After completing this course there are a number of options available for you; depending on your final grade you could move onto a higher education course including a HNC in Civil Engineering, a HND in Civil Engineering, a Higher Apprenticeship or progress to university. Employers seek graduates who are commercially aware and capable of working well within a team environment.

Students who choose to study BTEC Civil Engineering will also study an industry-standard qualification:

Building Information Modelling (BIM). Details of this course are on the next page.