

# Trinity 6<sup>th</sup> form Catholic College

## BTEC Level 3 National Diploma in Engineering

### Course Overview

This qualification is aimed at students with a keen interest in the engineering industry. Students will gain relevant skills and knowledge from studying a broad range of topics and content which cover all aspects of the wider engineering industry opposed to focusing on one specialist sector. The course is taught over 720 guided learning hours and is equivalent in size to two A Levels. The course consists of 10 units of which 5 are mandatory and 2 are externally assessed.

### Course Content

#### Year 12 & Y13 content

The course consists of 5 mandatory units delivered across 2 years which include:

- Engineering Principles (EXTERNALLY ASSESSED)
- Delivery of Engineering Processes Safely as a Team
- Engineering Product Design and Manufacture (EXTERNALLY ASSESSED)
- Applied Commercial and Quality Principles in Engineering
- A Specialist Engineering Project

The remainder of the course is made up of optional units from the selection below:

Calculus to Solve Engineering Problems, Computer Aided Design in Engineering, Mechanical Measurement and Inspection Technology, Manufacturing Secondary Machining Processes, Fabrication Manufacturing Processes, Work Experience in the Engineering Sector, Electronic Devices and Circuits, Mechanical Behaviour of Metallic Materials, Computer Aided Manufacturing and Planning.

### Assessment

The course consists of 10 units of which 5 are mandatory and 2 are externally assessed through exams.

### Entry Requirements

5 GCSEs at grades A\*-C (grade 5 or above) including English, Science & Maths (minimum grade 6 required in Maths)

### Progression

This qualification supports progression to job opportunities in the engineering sector at a wide variety of levels. After this qualification, learners can progress directly to technician roles, but it is likely that many will do so via higher education study. This qualification is recognised by higher education providers as contributing to meeting admission requirements for many relevant courses in a variety of areas of the engineering sector, for example: BEng (Hons) in Engineering BEng (Hons) in Electronics Engineering BEng (Hons) in Aerospace Engineering BSc (Hons) in Computer Science BSc (Hons) in Mathematics. This qualification also supports those following an apprenticeship in engineering who are looking to work and progress in the engineering sector as an Engineering Technician or as an Engineering Operative.

### Course Contact

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