

BTEC LEVEL 3 NATIONAL DIPLOMA IN ENGINEERING



TRINITY SIXTH FORM
@ MIDDLESBROUGH

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 covers all aspects of the wider engineering industry as 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.

COURSE CONTENT

Year 12 & Year 13 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 5 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. Unit 1 is examined through a 2 hour examination consisting of 80 marks. Unit 3 is assessed by a set task consisting of 2 parts; A and B and is marked out of 60. Students are given 8 hours over a 2 week period to complete the task under supervised controlled conditions.

The units which are internally assessed assess students using a variety of styles to help them develop a broad range of transferable skills.

SUBJECT COMBINATIONS

Engineering can be combined with many other subjects. The main subject combination students look to pair Engineering with is Mathematics but others include Chemistry, Physics and Business.

ENTRY REQUIREMENTS

At least 5 GCSEs at grade 5 or above including English, Science & Maths (minimum grade 6 required in Maths).

PROGRESSION

The 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.

FUTURES

Learners can progress directly to technician roles and many others within this growing sector. It 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. Ultimately, a BTEC Level 3 National Diploma in Engineering is an important qualification for anyone looking to work in one of the fastest growing labour markets in the world.



COURSE CONTACT

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