

Engineering BTEC

Who is the course for?

Engineering offers a wide range of fantastic and exciting opportunities. Engineers work in an exciting environment that encompasses the use of cutting edge technologies and innovative solutions. Engineers design and build the world, from smart phones to fighter jets and bridges and are at the forefront of designing a sustainable future.

Highly skilled engineers are very much in demand. Study engineering and you be on the road to becoming a highly skilled professional and you could work within a variety of engineering disciplines such as, product design, aerospace, manufacturing, electrical & electronics, communications, mechanical, nuclear & energy, environment or transport. The Level 3 Extended Certificate, Diploma or Extended Diploma in Engineering will give you the experience and recognised qualifications to pursue one of these career routes and will appeal to those who have a keen interest in Engineering.

What does the course involve?

You will combine theory, applied theory and practical learning across a broad range of subjects including:

- Engineering Principles
- Engineering product Design and manufacture
- Engineering Processes and Manufacturing
- CAD and Engineering Drawing
- Microcontroller systems
- Engineering Materials
- Electronic Printed Circuit Board Design & Manufacture
- Additive Manufacturing Processes (3D printing)
- CNC Machine Programming
- Engineering Design
- A Specialist Engineering Project

The course has been supported by a wide range of employers and universities so students can be confident that it will open up a host of progression routes. Students will use equipment such as CAD/CAM, CNC, Material testing, Programmable Logic Control, Electronics and Process Control Technology giving students unrivalled access to the latest industry standard training and education. This course allows students to sample the various aspects of Engineering Technology and enables them to make a reasoned choice for their future career based on their experience across a broad range of engineering subjects

Assessment Methods

Some units are assessed through examinations and the others through assignments

Progression Options

The qualification is intended to carry UCAS points and is recognised by HE providers as contributing to the admission requirements to many relevant courses. When studied with other qualifications, such as two A-Levels in a different or complementary subject area, such as mathematics, science or technology, the qualification provides an opportunity for you to progress into Higher Education on a BTEC Higher National, Foundation or Honours Degree course. This qualification is also aimed at students wanting to progress to employment or onto an apprenticeship. Former students have become Design Engineers, Aerospace Engineers, Marine Engineers and now working for organisations that include; Airbus, Rolls-Royce, GKN Aerospace, Dyson and the Royal Navy

Awarding Body

Pearson