

Engineering Level 3 (BTEC)

Why study Engineering?

This course covers a variety of areas such as computer aided design, manufacturing processes, teamwork and much more. As an engineering student you will have access to a variety of equipment and technology as you develop your understanding and appreciation of engineering in the modern world. Engineering offers you a wide range of opportunities at post-18 with ex-students finding employment through apprenticeships and also degree level apprenticeships in both the private and public sector, including Rolls Royce, MoD and BMT and many student have gone direct to university. Subjects studied at University include Robotics, Aerospace engineering, product design, Maths and many others.

What will I study?

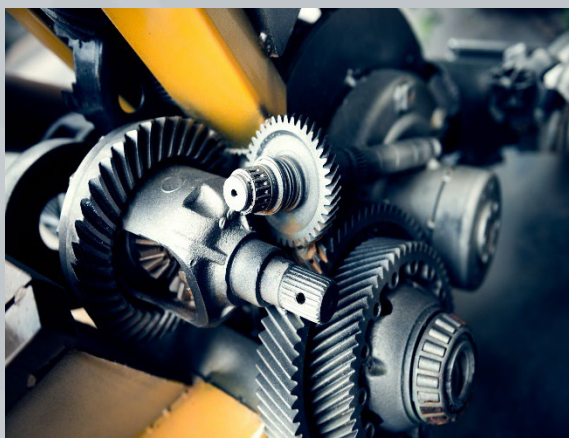
When you take the AAQ Engineering Level 3 BTEC, you will study a mix of theoretical knowledge and practical skills that prepare you for careers or further study in engineering. You will explore core areas such as mechanical, electrical, and electronic principles, as well as materials, design processes, and computer-aided engineering.

You will learn through real-world projects, problem-solving tasks, and hands-on workshops, applying concepts to practical scenarios. You will also develop key professional skills such as teamwork, technical communication, and project management, ensuring you are ready for apprenticeships, higher education, or direct entry into the engineering sector.

You will develop strong CAD skills in both 2D and 3D, so it is important to have your own laptop to work on this at home.

Assessment

Assessment is carried out through a mix of coursework, practical tasks, and exams that test both theoretical knowledge and hands-on engineering skills.



Student Perspective

"I'm really enjoying the course, It's a good change from most subjects, as it combines practical work, coursework and theory all into one subject. I aspire to being in an engineering role in the future and I can see this is a great qualification for me to achieve my goals. It's also helped me develop my organisation and communication skills"

Subject entry requirements

5 in at least one Science **plus** 5 in Maths.

Study trips, visits and events

Opportunities will include a visit to CERN to see large-scale computer controlled manufacturing processes. You may also have the opportunity to visit other local companies and the Design Museum in London.

Unit	Title	Assessment
1	Engineering Principles	Exam
2	Engineering Applications	Exam
3	Engineering Design	Coursework
4	Engineering Project	Coursework