

## ENGINEERING

**Type of Qualification:** BTEC Level 2 Award in Engineering (Pearson)

**How it is assessed:** Coursework assessment (75%) and an online examination (25%)

### Course Overview:

Engineering sectors are consistently amongst the fastest growing industries around the globe. This course is designed to give students an insight into the wide and diverse range of careers available in the field of Engineering. Students will learn about opportunities in aerospace, automotive, communications, electrical/electronic, mechanical, biomedical and chemical engineering.

A balance of practical projects and classroom activities are used to develop skills and engage learners, whilst providing the knowledge to contextualise their learning for Engineering in the 21<sup>st</sup> Century. It is worth noting that we have support from a number of local engineering businesses who provide our learners with additional 'real-life' context and employment opportunities.

There are three units of study that students will follow:

- **The Engineered World:** Students will learn about different aspects of engineering and their applications. It includes traditional engineering practices as well as current and future technologies.
- **Investigating an Engineered Product:** Students will look at materials and working practices used to manufacture products. They will source an engineered product and then carry out a disassembly investigation to look at how the product has been produced and the materials, systems and processes used. Disassembly activities are photographed and presented with a report on their findings, which will include their view of the design engineer's role.
- **Machining Techniques:** This unit allows students to produce an engineered product using our workshop facilities. Students will use drilling, turning and milling machinery as well as a number of hand finishing skills to produce a high quality and accurately produced product. The skills for this work are learnt through a series of smaller, non-examined tasks that form part of the course.

### Beyond Year 11:

The Edexcel BTEC First Award in Engineering provides excellent prospects for apprenticeships and further study. Students can select from a wide range of qualifications in multiple engineering disciplines.

