

ENGINEERING

Type of Qualification: Level 2 Engineering

How it is assessed: Coursework assessment and examination

Course Overview:

Engineering sectors are consistently amongst the fastest growing industries around the globe. The engineering 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 21st 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.

Areas of study include:

- The variety of sectors within engineering and their applications, including traditional engineering practices as well as current and future technologies.
- Design, communication, materials and working practices used to manufacture engineered products.
- Engineered product investigation; sourcing an engineered product and carrying out a disassembly 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 findings, which will include their view of the design engineer's role.
- Workshop and machining techniques, allowing students to produce an engineered product using the 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.

Post 16 and Career opportunities:

Engineering provides excellent prospects for apprenticeships and further study. Students can select from a wide range of academic and vocational qualifications in multiple engineering disciplines.

Key attributes for success on this course are:

- An understanding and interest in how things function and how they fit together
- A passion for working in an engineering sector
- The desire to problem solve
- The ability to work as part of a team

