



BTEC Level 3 Engineering

Engineering is about problem solving and using your science, maths and technological ability to apply innovations to the real world.

- The UK is an engineering powerhouse, with the profession generating up to an estimated £645bn to the UK's economy annually – equivalent to 32% of economic output.
- More than 8.1 million people – or over a quarter of all UK workers (26%) – are part of the UK's engineering economy
- The UK has 729,000 engineering businesses – equivalent to more than one in 10 (13%) of all UK businesses
- The yearly income of an Engineer tends to be 23% higher than the average job in the UK

Who is this qualification for?

The Pearson BTEC Level 3 National Extended Certificate in Engineering is designed for learners who are interested in a career in the engineering sector and want to progress to further study at university or for **those** planning to enter employment in the Engineering industry.

What does this qualification cover?

This qualification has a focus on a broad range of engineering specialist areas. Learners taking this qualification will study:

- engineering principles and mathematics
- health and safety, teamwork and interpreting and creating computer-aided engineering drawings
- design and manufacture of products

How will you be assessed?

You will be assessed by completing 4 Units:

Externally assessed units (Examinations)

Unit 1: 33% : Engineering Principles

Unit 3: 33% : Engineering Product Design and Manufacture

Internally assessed units (Coursework)

Unit 2: 17% : Delivery of Engineering Processes Safely as a Team

Unit 10: 17% : Computer Aided Design in Engineering

Entry requirements: 5 in a related technology subject and a grade 6 in maths. If not grade 6, you must have a grade 4 and take core maths as one of your 6th Form choices.

Types of engineering and manufacturing

- aerospace
- applications
- architecture
- automotive
- building services
- chemical
- civil
- commercial
- commissioning
- computing and IT
- construction
- contracting
- defence
- design
- electrical
- electronics
- environmental
- estimator
- facilities management
- forensic
- geotechnical
- health and safety
- hydrology
- infrastructure
- instrumentation and control systems
- manufacturing
- marine
- materials
- mechanical
- petroleum, oil and gas
- planning
- plant
- power
- process
- production
- project management
- quality
- rail
- research and development
- site
- software
- surveying
- systems
- telecoms, digital communications and networks
- test
- transportation.