

Why study this course?

AQA Level 3 Technical Engineering seeks to develop students' knowledge, understanding, skills and application of a wide range of engineering principals.

This qualification is designed for learners aged 16-19 wanting to gain an understanding of the engineering sector. This could lead to further study in engineering, or learners could proceed into an engineering-related apprenticeship or employment.

What will I learn on this course?

Through taking this course pupils will look at Engineering materials and their respective properties. They will look at Mechanical systems, and solve Engineering tasks through designing and manufacture of a solution.

What specific skills will I learn on this course?

Learners gain the core technical knowledge required to work in today's engineering industry and cover topics such as:

- The scientific principles used to identify the most suitable materials in a given engineering context.
- Mechanical engineering systems and components.
- The process of engineering design.

What career paths could this course lead to?

Successful completion of the course would provide students with a gateway to further their Engineering knowledge through apprenticeships and University qualifications. It would allow students to specialise in a more specific area of Engineering such as Electrical or Mechanical engineering.



Sandbach College

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How is the course structured?

The course requires the successful completion of 4 units.

- Materials Technology & Science – Externally examined
- Mechanical systems – Externally set and marked practical assignment
- Engineering Design – Internally centre assessed
- Production and manufacturing – Internally centre assessed

The units are assessed Distinction, Merit, Pass and fail. There are no specific entry requirements for the course but it is expected that students will have achieved a 4 or above in GCSE Maths and Science.

Extra opportunities

The course lends itself to working closely with Industrial / Engineering links which the school is fortunate to have. Engineering students will be encouraged to participate in some of the extra-curricular clubs, such as F1 in schools and Greenpower. There are also external events which students could attend, Big Bang Fair and Young Engineers for example. Sandbach High School also works alongside Smallpiece Engineering and has a history of successfully winning students a number of Arkwright foundation scholarships.

