

ENGINEERING

The AAQ in Engineering develops learners' knowledge and understanding of the mathematical and physical concepts which underpin the skills needed to solve a range of engineering problems. This course is ideal for students interested in going on to study degrees within the many fields of Engineering at University, and completion of this course supports applications to higher apprenticeships with an engineering company, should you choose a more vocational progression after college. This course also complements A Levels such as Maths and Physics, supporting study in these fields.

Specific course entry requirements

College entry, including GCSE Mathematics at a minimum of Grade 6, and either GCSE Combined Science at 6,6 or GCSE Physics at Grade 6 or above.

Engineering Design: Three-dimensional (3D) models and two-dimensional (2D) detailed drawings using a computer-aided design (CAD) system.

Engineering Project: Project management processes in Engineering products from concept to solution.

How will I be assessed?

- Coursework 50%
- Examination 50%

The course includes two exams and two vocational-style coursework units.

The first two units on this list are externally assessed through examination, and the final two units are internally assessed through coursework. The coursework element will enable you to develop other skills desired by both universities and employers including critical thinking, problem solving and creative thinking.

What will I study?

The qualification has been developed in consultation with higher education representatives and professional bodies to ensure students have the knowledge, understanding and skills they need to progress to, and thrive in, higher education.

This qualification has four mandatory units covering the following topics:

Engineering Principals: Engineering data and applying mathematical procedures in mechanical and electrical contexts.

Engineering Applications: Advances in modern technology and how they are reshaping the engineering sector's function; materials and processes to devise sustainable solutions to engineering problems.