



BTEC Tech Award in Engineering

COURSE OUTLINE:

The award gives learners the opportunity to develop sector-specific knowledge and skills in a practical learning environment. The main focus is on four areas of equal importance, which cover the:

- development of key engineering practical and technical skills, such as research, observation, measurement, making, using computer-aided design (CAD) and disassembly
- knowledge of key engineering sectors (mechanical, electrical/electronic and engineering design) and the interrelation of each in industry
- knowledge of the stages involved in planning and implementing an engineering project
- knowledge and skills involved in the investigation of solutions to engineering problems in response to a given brief.

This award complements the learning in GCSE programmes such as GCSE Design and Technology by broadening the application of design and make tasks, working with an engineering brief, testing and evaluation.

COURSE ASSESSMENT:

Component 1 Exploring engineering sectors and design applications – centre assessed (30 % of course)

Students will explore the links between the various engineering sectors and the role of design in the production of engineered products.

Component 2 Investigating an engineering project – centre assessed (30% of course)

Students will investigate the selection of materials, proprietary components, making processes and disassembly of a given engineered product. They will plan, reproduce, inspect and test a single component.

Component 3 Responding to an engineering brief – written exam - (40% of course)

Students will investigate and create solutions to problems in response to given engineering briefs.

COURSE QUALIFICATION:

Pearson BTEC Tech Award in Engineering is a GCSE equivalent and is graded: L1 Pass, L1 Merit, L2 Pass, L2 Merit or L2 Distinction

TEACHER TO SEE FOR GUIDANCE:

MISS M. SUMMERLEY Classroom D3

Group