

KS4 Engineering Curriculum Plan 2019 - 2021

BTEC Tech Award in Engineering

Key Stage 4

BTEC Tech Award in Engineering

Exam Board – Pearson

QAN Code – 603/0829/1

Method of Assessment – 40% Exam 60% Coursework

The BTEC Tech Award in Engineering covers a large range of topics through a portfolio of work that is added to throughout the two-year course. Learners who choose this course will study different areas of engineering, engineering design and look at depth into engineered products. Pupils will apply knowledge and technical skills to a range of tasks in order to develop their confidence in an engineering environment. Pupils will be assessed in through two elements of coursework both worth 30% of the final grade and two exams. One of the exams focusses on re-engineering a product and the other has a focus on investigating an experiment which links to an engineering problem. These two exams make up the remaining 40% of the qualification.

AIMS OF THE COURSE:

The BTEC Tech Award in Engineering has been designed to develop the knowledge, skills and understanding required in the engineering sector and to focus on providing opportunities for engineering employees to achieve a nationally recognised level 2 vocationally specific qualification. This will give learners opportunities to enter employment in the engineering sector or to progress to further education vocational qualifications such as the AQA Level 3 in Engineering.

COURSE CONTENT and ASSESSMENT:

The Technical Award in Engineering consists of three components which focus on:

- Exploring engineering sectors and design applications
Weighting 30% internally assessed assignments
- Investigating an engineering project
Weighting 30% internally assessed assignments
- Responding to an engineering brief
Weighting 40% externally assessed task pupils create and engineered product from a given brief

HOMELEARNING:

This will be an essential aspect of this course and will include a wide variety of tasks and activities, including Mathematics and Science by exploring engineering principles and completing practical work and experimentation.

WHERE WILL THIS LEAD?

The engineering sector continues to suffer from a skills gap and needs to keep up with rapidly developing technologies. New entrants to the engineering sector need to build the underpinning knowledge and specific skills required to meet the needs of modern engineering industries. The BTEC Tech Award in Engineering has been designed with flexible qualification structures and a wide range of units to provide opportunities for learners who intend progressing to technician roles or for those who wish to gain an understanding of engineering and intend to develop further in that area.