

## Engineering

### BTEC FIRST DIPLOMA IN MANUFACTURING / MECHANICAL AND ELECTRICAL ENGINEERING

**Level 2**

**Length** 1 Year

**Location** HRC

#### **Entry Requirements**

4 GCSEs at Grade C or above to include Maths, English and IT.

#### **Description**

This course would be the first step for those who would like to have a career in Electrical, Mechanical or Manufacturing Engineering. It will give you a broad background and will cover such areas as electronics, robotics, circuit board construction and design, Computer Aided Drafting and operation lathes and milling machines. Once you have gained this qualification you would be in a good position to find an Apprenticeship or study at an advanced level.

#### **About the Course**

Compulsory Units

- \* Engineering Processes and Techniques
- \* Applied Science and Mathematics
- \* Working Practices
- \* Key Skills

Optional 3 units from the following:

- \* CNC
- \* CAD Fundamentals
- \* Electronic Fundamentals
- \* Robot Technology and Programme Controllers
- \* Electronic Circuit Construction and Testing
- \* Circuit Building

#### **How you are Assessed**

Continuous throughout the course in the form of projects, assignments, case studies and coursework and written tests for each unit.

#### **Progression Routes**

On successful completion of this qualification you would then be able to choose a specialist area to continue with your studies as an Advanced Apprentice.

#### **Additional Information**

Additional information can be obtained at interview.

Key Skills/Functional Skills – you will be expected to achieve these at the appropriate level if you do not have evidence of GCSE Grade C in relevant subjects, obtained within the last 5 years.

Employment rights and responsibilities (ERR): A short, separate assignment is required to evidence the apprentice's understanding of their employment rights and responsibilities.

Please note that students will need to supply their own overall (as required), safety boots (as required), pen, pencil, paper and scientific calculator

### **For a full Apprenticeship you are also required to undertake NVQ level 2 Performing Engineering Operations**