

## Engineering BTEC NATIONAL CERTIFICATE IN ENGINEERING (Mechanical)

**Level** 3

**Length** 2 Years

**Location** HRC

### Entry Requirements

5 GCSEs at grade C or above (including Mathematics, English, IT and a Science, or BTEC First Diploma with two subjects at Merit Level (one of which to be Applied Maths and Science), plus key skills at level 2.

### Description

This course is for those who intend to follow a career in mechanical/manufacturing engineering. You will be using lathes, and milling machines and automated programmable controllers. You will study a wide range of subjects (units) as detailed below.

### About the Course

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| * The course consists of 6 Core Units: | * Mathematics for Technicians            |
| * Business Systems for Technicians     | * Electrical and Electronic Principles   |
| * Communications for Technicians       | * Mechanical Principles and Applications |
| * Engineering Project                  |  |

Plus 6 specialist units from the following:

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|--|---|
| * Engineering Design   | * Computer Aided Drafting   |
| * Commercial Aspects of Organisations<br>Employing Engineers | * Selection and Applications of Programmable<br>Logic Controllers |
| * Further Mechanical Principles and Applications             | * Computer Numerical Control of Machine<br>Tools                  |
| * Engineering Drawing for Technicians                        |   |

### How you are Assessed

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

### Progression Routes

You can move on to an HNC/HND, Degree course or Management programme.

### 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 an appropriate NVQ level 3 in Engineering**