

# Engineering: National Extended Diploma

BTEC Level 3 (Equivalent to three A-Levels)



Exam Board: **edexcel**

## ENTRY REQUIREMENTS

**4+**

In four GCSE subjects including science

**6+**

In GCSE Maths

**4+**

In a GCSE subject related to engineering e.g. IT/DT

## SUBJECT OVERVIEW

This qualification has been designed as a two-year, full-time course that meets entry requirements in its own right for learners wanting to progress to employment in engineering. Learners gain relevant skills and knowledge from studying a range of content focused on electrical and mechanical disciplines, for example electrical machines and maintenance of mechanical systems and product design.

Progression could be either directly to employment in Level 3 job roles, higher apprenticeship programmes or via higher education courses in engineering.

### TOPICS/UNITS/MODULES

The course consists of 15 separate units, 7 of which are compulsory. Of the 7 compulsory units, 3 are externally tested through a combination of external examinations and specific set tasks which are time constrained.

All externally assessed units must be passed and all 15 units must reach the minimum grade of "pass".

### Skills Learnt

- Technical and Practical engineering skills
- Mathematical and Analytical skills
- Project management
- Communication
- Health, Safety and Environmental Awareness
- Critical Thinking and innovation
- Computational and software skills
- Ethical and professional Responsibility
- Electrical and Mechanical engineering knowledge

## EXAMINATION/ASSESSMENT

**12 units**

**3 units**

Examined, externally marked units (2 hours each and only two attempts allowed by the examination board)

Coursework units marked by teachers and then checked by the exam board

## Careers

- Mechanical engineering
- Electrical engineering
- Civil engineering
- Project management
- Renewable energy careers
- Manufacturing and production
- Construction and building services
- Industrial engineering