

Vocational



Level 3
National Extended
Diploma in
Engineering

**NELSON & COLNE
COLLEGE**

SIXTH FORM

DURATION

2 YEARS

STUDY TYPE

FULL-TIME

START DATE

SEPTEMBER 2020

**VOCATIONAL ENTRY
REQUIREMENTS**

5 GCSEs at grade 4 or above including Mathematics and Science, or a Level 2 equivalent in this area and GCSE Mathematics and Science at grade 4 or above.

Description

On this course you will study a variety of engineering topics such as engineering design, fabrication processes, CAD/CAM, CNC, engineering materials, fluid mechanics, secondary machining processes and mathematics for engineers.

Engineering is a fast moving, innovative industry and we have fantastic links with local businesses and the latest equipment, in line with the relevant industry standards.

Completion of this programme will enable you to progress onto an Apprenticeship, or an Engineering degree at the college, or university.

How you will be assessed:

A mixture of internally and externally assessed units. Some units will have examined parts. Each unit within the qualification has specified assessment and grading criteria and a summative unit grade is then awarded at pass, merit or distinction.

What you learn:

Year 1: All learners complete the same units to achieve the Foundation Diploma in Engineering.

- Engineering Principles
- Delivering Engineering Processes Safely
- Engineering Product Design and Manufacture
- Applied Commercial and Quality Principles in Engineering
- Mechanical Behaviour of Metallic Materials
- Manufacturing Secondary Machining Processes
- Manufacturing Computer Numerical Machining Processes

Year 2: Three specialisms are available:

1. Extended Diploma in Engineering
 2. Extended Diploma in Electrical/Electronic Engineering
 3. Extended Diploma in Aeronautical Engineering
- Specialist Engineering Project
 - Microcontroller Systems for Engineers
 - Calculus to Solve Engineering Problems
 - Further Engineering Maths
 - Welding Technology
 - Maintenance Mechanical Systems
 - Computer Aided Design in

- Engineering Principles and Applications of Fluid Mechanics
- Electrical Machines
- Electronic Devices and Circuits
- Electronic Measurement and Testing Circuits
- Aircraft Flight Principles and Practice