

BTEC LEVEL 3 NATIONAL EXTENDED DIPLOMA IN MANUFACTURING ENGINEERING

A full-time programme of study designed to equip learners with the knowledge and understanding required for success in a range of mechanical and electrical/electronic engineering occupations. This course is equivalent to 3 A Levels.

Level 3 · Extended Diploma · STEM & Health Skills, Bodmin

TOP COURSE HIGHLIGHTS

STUDY PRACTICAL SKILLS **SIMULATED WORKING ENVIRONMENTS** **QUALITY CAREERS** **'WORK READY' QUALIFICATION**

LEARN FROM SECTOR EXPERTS

You will be taught by staff with extensive experience who will advance your knowledge and skills to meet the expectations of the engineering industry.

ENJOY PROFESSIONAL ENVIRONMENTS

Enjoy modern workshops that are second to none within a further education setting. With a wide range of different machine tools and equipment.

DEVELOP SKILLS IN LINE WITH INDUSTRY NEEDS

Learn skills that are required in industry, enhancing not only your knowledge and practical ability but also your future employability.

WHY CHOOSE THIS COURSE?

This advanced, two-year full-time course is designed for young people who have an interest in broad engineering disciplines and wish to gain a nationally recognised qualification at Level 3. It is ideal if you want to progress to university, an advanced Apprenticeship or employment. The qualification is also suitable for learners who have not yet decided on a particular engineering specialism and who wish to gain a broader understanding of engineering.

WHAT WILL I LEARN?

The programme is broken down into modules of delivery which are covered during your time at college with your tutor. You will be covering:

- Engineering Principles
- Delivering Engineering Processes
- Product Design & Manufacture
- Applied Commercial & Quality Principles
- Specialist Project
- Microcontroller Systems
- Calculus [Mathematics]

FOR THE LATEST COURSE INFORMATION

Scan for assessment arrangements, learner support, confirmed start dates and how to apply.
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- Further Engineering Mathematics
- Electronic Devices & Components
- Analogue Electronic Circuits
- Mechanical Behaviour of Metallic Materials
- Static Mechanical Principles

Behaviours Personal responsibility and resilience: Comply with the health and safety guidance and procedures, be disciplined and have a responsible approach to risk, work diligently regardless of how much they are being supervised, accept responsibility for managing time and workload and stay motivated and committed when facing challenges. Work effectively in teams: Integrate with the team, support other people, consider implications of their own actions on other people and the business whilst working effectively to get the task completed. Effective communication and interpersonal skills: An open and honest communicator, communicates clearly using appropriate methods, listen well to others and have a positive and respectful attitude. Focus on quality and problem solving: Follow instructions and guidance, demonstrate attention to detail, follow a logical approach to problem solving and seek opportunities to improve quality, speed and efficiency. Continuous personal development: Reflect on skills, knowledge and behaviours and seek opportunities to develop, adapt to different situations, environments or technologies and have a positive attitude to feedback and advice.

WHERE WILL IT TAKE ME?

The course gives learners specialist knowledge and technical skills, enabling entry to an Apprenticeship or other employment, or progression to related higher education (university) courses. Upon completion of the course, employment areas may include; Engineering Technician, Electrical Engineer, Mechanical Engineer, Rail Design Engineers, Manufacturing Engineer, Production Management.

ENTRY REQUIREMENTS

To enrol on the Pearson BTEC Level 3 Extended Diploma in Engineering you require successful completion of the Year 1 BTEC Level 2 in Engineering or GCSE Grade 4 in at least five subjects (which should include English, and a Science) and at least a Grade 5 in Maths.

IMPORTANT

Course information can change. Please use the QR code below for the current assessment arrangements, entry requirements and start dates.

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