MECHANICAL ENGINEERING

Level 1 City & Guilds Certificate in Engineering
Level 2 T Level Foundation Year Engineering & Manufacturing
Level 3 City & Guilds Diploma in Engineering
Level 3 BTEC National Extended Diploma in Mechanical Engineering
Level 3 T Level Mechanical Engineering

COURSE FEATURES

100% PASS RATE

- £1.8 million expanded Centre of Excellence in Engineering at Pagefield.
- Cutting-edge machinery and workshops.
- Additive Manufacturing Lab.
- Students compete in UK squad at World Skills.
- High quality work experience opportunities.
- Extensive links with employers including: Sellafield Ltd, HUSCO, ISG and Kraft Heinz.

If you are technically minded, good at maths and science, and like solving problems, a professional career in engineering could be for you.

Mechanical Engineers apply science and technology to solve real world problems through the manipulation of moving parts. They also manage teams of technicians and craftspeople, who carry out installation and maintenance work.

Our courses are designed to develop the practical skills and knowledge required to enter employment in this diverse sector, or progress to university level study.

CAREER PROSPECTS

- Aerospace Engineer £28k - £50k
- CAD Design Engineer £28k - £50k
- Design Engineer £24k - £50k
- Mechanical Engineers £20k - £60k
- Mechanical Engineers £20k - £60k
- Production Engineer £22k- £69k

WHAT WILL I STUDY?

A wide range of engineering subjects and activities, including workshop skills such as using hand tools and machines, making and testing electronic circuits, engineering materials, engineering mathematics and science.

The **Level 2** course provides the practical skills to begin a rewarding career in the dynamic engineering industry. There are two pathways: Welding and Machining. These pathways closely align with the apprenticeship standards allowing for a seamless transition into an apprenticeship programme. On the welding pathway you will study MIG welding and sheet metal and on the machining pathway you will study turning and CNC. Both pathways offer units including maintenance, hand fitting and CAD, to equip you with multiple and sought after skills to prepare you for the industry.

LEVEL 3 BTEC COURSE UNITS INCLUDE:
Mandatory units: Engineering Principles; Delivery of Engineering Processes Safely as a Team; Engineering Product Design and Manufacture; Applied Commercial and Quality Principles in Engineering; A Specialist Engineering Project; Microcontroller Systems for Engineers; Calculus to Solve Engineering Problems.

Optional units: Further Engineering Mathematics; Programmable Logic Controllers; Additive Manufacturing

Processes; Electronic Printed Circuit Board Design and Manufacture; Computer Aided Design; Computer Numerical Control; Maintenance of Mechanical Systems; Mechanical Behaviour or Metallic Materials.

COURSE LENGTH

Levels 1 and 2 are full-time for one academic year.

Level 3 is full-time for two academic years.

T Level is full-time for two academic years.

HOW WILL I BE ASSESSED?

Through practical tests, assignments and coursework.

Level 3 BTEC has three external exams.

WHAT CAN I PROGRESS TO?

From Level 1 to Level 3. You could enjoy a great career through an apprenticeship. Many students choose to continue to study at the University Centre Wigan & Leigh College on an HND Engineering courses, or continue their studies at university on one of a range of engineering degrees.

If you have any queries please contact our Admissions Team: **01942 761 111**
or email: **applications@wigan-leigh.ac.uk**

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