



Advance your career

Join the Dudley College of Technology
Engineering & Manufacturing Academy

Engineering & Manufacturing Academy

Duration: 4 weeks

Level 1 Certificate in Engineering

This level is ideal for those considering a career in engineering and will provide a basic understanding of engineering principles.

To earn this qualification, you must complete a range of mandatory and optional units, including:

- Working in engineering
- Carrying out basic fitting techniques
- Carrying out mechanical assembly
- Producing engineering drawings.

- Functional skills
- Employability Skills
 - CV Writing
 - Interview Skills

Passport of achievement

Start Apprenticeship

Engineering Operative Level 2

Duration: 12 months

Engineering Operative

The Apprenticeship will include a range of engineering operations covering ensuring machines and equipment used are maintained and serviceable, dealing with breakdowns, restoring components and systems to serviceable condition by repair and replacement; operating a variety of machines (CNC or Conventional); assembling and repairing machine and press tools, dies, jigs, fixtures and other tools; fabrication/installation of a wide variety of other sheet fabrications and equipment and; fabrication and assembly of metal parts joining techniques; preparing materials and equipment for engineering processes, providing technical support including communications software, test tools, performance, capacity planning, and e-commerce technology as required.

Engineering Technician Apprenticeship Standard Level 3

You will study one of the following 5 pathways

Duration: 3 ½ years

Machinist

Machinists in the Advanced Manufacturing Engineering sector are predominantly involved in highly skilled, complex and precision work, machining components from specialist materials using conventional and/or CNC machine tools such as centre lathes, vertical and horizontal milling machines, horizontal and cylindrical grinding machines, electro discharge machines, single and multi-axis CNC machine tools centres.

Mechatronics Maintenance Technician

Mechatronics Maintenance Technicians ensure that plant and equipment perform to the required standard to facilitate production targets regarding Safety, Quality, Delivery and Cost within High Value Manufacturing environments. Typically the work would cover a broad range of activities include installation, testing, fault finding and the on-going planned maintenance of complex automated equipment. This requires the application of a complex blend of skills, knowledge and occupational behaviours across the electrical, electronic, mechanical, fluid power and control systems disciplines.

Toolmaker & Tool & Die Maintenance Technician

Toolmakers and Tool & Die Maintenance Technicians are predominantly involved in the highly skilled, complex and specialist detailed work of manufacturing and maintaining the engineering tooling used to produce components, products and assemblies. These products, assemblies and systems affect all of our daily lives, whether it be for travel such as (cars, planes, boats and rail) energy, defence, food, clothing, packaging and health including medical equipment, devices and implants such as joint replacements.

Product Design & Development Technician

Product Design & Development Technicians primarily work on all stages of product creation and modification. They support activities ranging from early concept feasibility, design and development stages right through to final preparation for launch and customers. This includes working in concept studios, rapid prototyping, assembly, testing, validating and analysing performance. Typically they work closely with engineers in bring new concepts to life or supporting redesigns of existing products.

Technical Support Technician

Technical Support Technicians, work as part of a team to provide technical support and expertise for all areas of the Engineering and Manufacturing function including communications software, test, analysis tools, measurement, off line programming, process control, performance and continuous improvement solutions, capacity planning, production scheduling/planning, product technical applications and capability, technical sales and marketing support, product development and innovation, engineering drawing, purchasing and/or supply of goods or services for engineering activities, quality control, inspection and e-commerce technologies as required.

On completion of the level 3 programme, you can progress to a degree level Apprenticeship.

Apply now!



Call us...
01384 363 808



Visit us online...
dudleycol.ac.uk



Email us...
employerservices@dudleycol.ac.uk



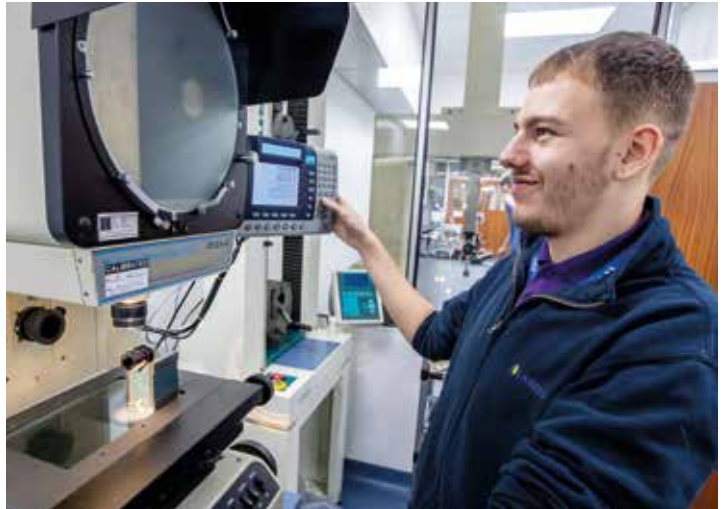
71%

apprentices stay with the same employer



83%

of employers who take on apprentices rely on them to become the skilled workers of tomorrow



90%

Apprentices stay in employment after completing their Apprenticeship



Dudley College of Technology – one of the top colleges nationally for the number of apprentices that successfully achieve their qualifications / Ofsted Outstanding



For more information, get in touch with the Employment Hub today.

Call **01384 363808** or email **employerservices@dudleycol.ac.uk**