



University of Lancashire

Training 2000

INFORMATION FOR STUDENTS



Engineering Manufacturing Technician

Level 4 Apprenticeship

Engineering Manufacturing Technicians play a key role in ensuring organisations can design, develop, produce, and test products and processes that meet customer requirements efficiently, cost-effectively, and to the highest standards.

Technicians gather and analyse data, solve problems, and produce technical documentation such as reports, specifications, and quality records. Their work guides colleagues and stakeholders on how products should be designed, manufactured, tested, or maintained.

Technicians collaborate with line managers, production teams, quality specialists, and design engineers, while also liaising with customers, suppliers, and regulatory bodies to ensure compliance.

Using their technical knowledge and judgement to tackle complex challenges and take responsibility for the safe, timely, and accurate delivery of products or services. They also contribute to process and business improvements, driving efficiency, quality, and compliance.

Duration:

Minimum 2 years / maximum 3 years
Year 1/2 - 1 day per week to complete a HNC in Manufacturing Engineering
Year 3/4 - assessment in the workplace

Where will I study:

Training 2000, Blackburn

Entry requirements:

Applicants must already be employed in a suitable engineering role.

In addition, you will need one of the following:

- A minimum of two A-Levels at grade C or above, including a mathematical-based subject and a science, technology, engineering or an additional mathematics-related subject
- An Engineering BTEC Level 3 with at least 120 credits at MM (Merit Merit) level
- An EAL Diploma in an Engineering-based subject at M (Merit) or above
- Equivalent qualifications such as Technical Levels at MM (Merit Merit) or above.

What you'll learn

Safety

Be able to ensure the safe and efficient performance of every production task in compliance with company procedures, approved engineering data and local Health and Safety requirements. Ensure Safe Systems of Work and risk assessments (assisting as necessary in the completion of risk assessments) are adhered to for engineering or manufacturing activities.

Data and Documentation

Produce and review engineering or manufacturing documentation such as, Build Manuals, Engineering drawing, Standard Operating Instructions and processes, Bill of Materials, to aid and ensure consistent, compliant and cost-effective manufacturing processes.

Continuous Improvement

Ensure processes and current methods of engineering and manufacturing are as efficient and cost effective, such as, utilising time and motion analysis, line balancing and flow to achieve the required level of production output, whilst maintaining quality standards.

Quality Testing

Carry out new product introduction or existing product modifications within engineering or manufacturing by contributing to activities such as facilitation of quality activities (including any testing or commissioning requirements), supplier approvals, gate reviews.

Communication

Liaise with appropriate internal and external stakeholders at all levels to ensure that engineering and manufacturing operations are completed in line with the agreed time scales. Examples of stakeholders could include production managers, production operatives, auditors, suppliers, customers.

Problem Solving

Be able to resolve identified engineering or manufacturing problems such as, contributing to the root cause analysis exercise applying appropriate levels of containment and corrective action.

How you'll be assessed?

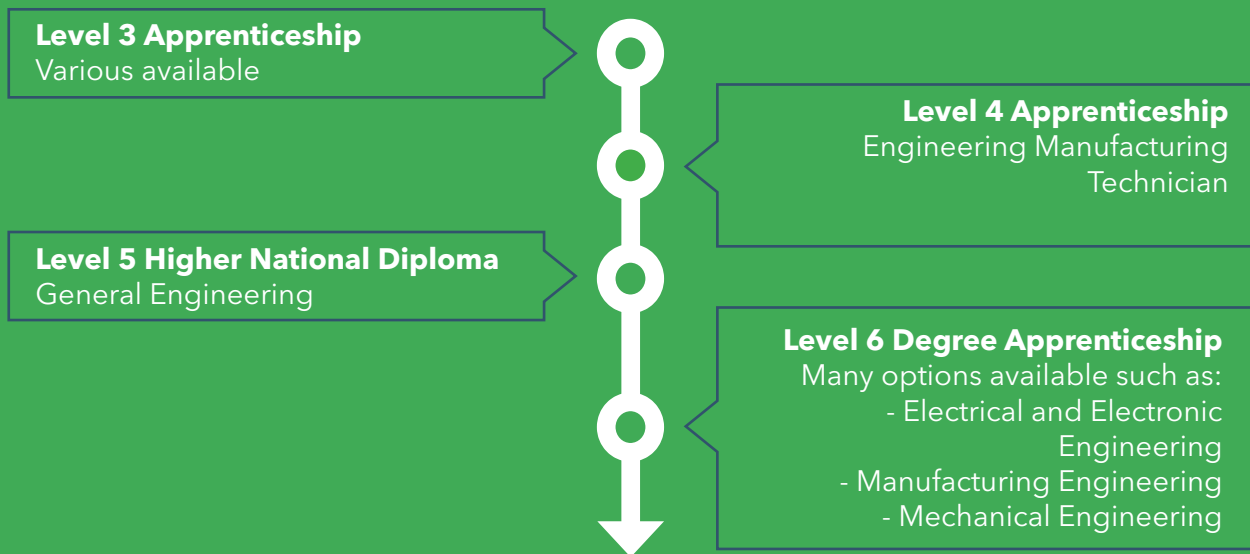
At the end of your Apprenticeship you'll go through an end-point assessment (EPA) and be graded a fail, pass or distinction based on a:

1. Practical observation

2. Professional discussion

Your Apprenticeship career path

Below is an example career path showing how you can earn, learn and study up to Degree level with an Apprenticeship. Training 2000 are part of the University of Lancashire which makes it easier than ever to progress on to a Degree Apprenticeship or Degree.



An Apprenticeship in Engineering can take you in many directions from an Aerospace Engineer to Nuclear engineer. You could even go on to own your own business.

Interested? Apprenticeships start throughout the year. Apply now!

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