



University of Central Lancashire

Training 2000

Engineering Technician

Mechatronics

Maintenance Technician

Apprenticeship

Level 3

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.

INFORMATION FOR LEARNERS



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Mechatronics Maintenance Technician

Apprenticeship information

Duration

Up to 4 years

Year 1 - full time at Training 2000

OR x6 four week blocks and 1 day per week to complete the Technical Certificate (if required)

Plus one week Business Improvement Techniques (BIT)

Year 2 - 1 day per week to complete the Technical Certificate (if required) / assessment in your workplace

Year 3/4 - assessment in your workplace

Where will I study?

Training 2000 Blackburn

Entry requirements

A minimum of four GCSEs at grade 4 (C) or above including English and Maths. Other equivalent qualifications are acceptable.

You may have to complete your English and Maths Functional Skills depending on your GCSE grades.

Our Apprenticeship includes:

- Training 2000 registration and pass
- Structured delivery programme
- Assessor visits and reviews in your workplace
- Synoptic / end point assessment



Approved Scheme

The Institution of
Engineering and Technology

Successful completion of this Apprenticeship provides you with professional status (EngTech) which will be understood and sought after by your peers, employers, suppliers, customers and your wider professional network.

What you'll learn

Key knowledge and skills

- understand mathematical techniques, formula and calculations in a mechatronics maintenance environment and the type of equipment being maintained
- understand mechanical, electrical, electronic, fluid power and process control principles in a mechatronics maintenance environment
- understand how equipment being maintained functions and operating parameters in individual components and how they interact
- understand fault diagnostic methods, techniques and equipment used when maintaining equipment and systems
- understand condition monitoring methods and equipment used and understand how the information gained supports the planning of maintenance activities
- understand how to minimise machinery downtime by implementing planned preventative maintenance programmes
- read and interpret relevant data and documentation used to maintain components, equipment and systems
- carry out condition monitoring of plant and equipment
- carry out planned maintenance activities on plant and equipment
- carrying out complex fault diagnosis and repair activities on high technology engineered systems such as:
 - Maintaining mechanical equipment
 - Maintaining fluid & pneumatic power equipment
 - Maintaining electrical & electronic equipment
 - Maintaining process control equipment
- carrying out confirmation testing and subsequent smooth hand over of equipment & plant support the installation, testing and commissioning of equipment (where applicable).contribute to the business by identifying possible opportunities for improving working practices, processes and/or procedures

After a period of foundation skills and technical knowledge development all apprentices will be required to achieve the following qualifications:

- Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence)
- Level 2 Award for Foundation Phase Gateway Assessment

After a further period of skills and technical knowledge development all apprentices will be required to achieve the following qualifications:

- Level 3 Diploma in Advanced Manufacturing Engineering (Development Competence) - Mechatronics Maintenance Technician
- Level 3 Diploma or Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge)

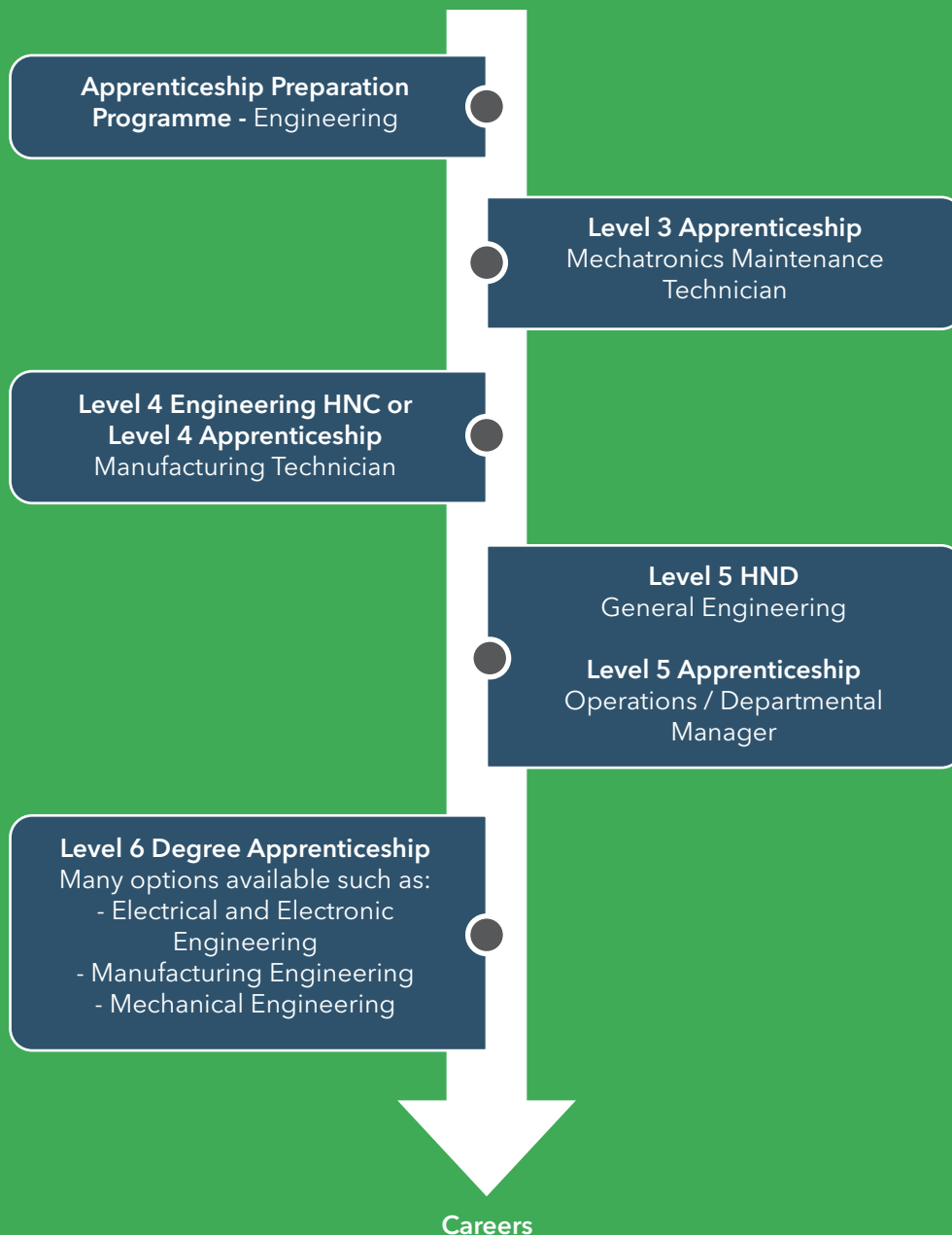
How you'll be assessed?

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

1. Creation of a portfolio
2. Occupational Competence Validation Interview
3. Application for professional recognition (EngTech)

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 Central Lancashire which makes it easier than ever to progress on to a Degree Apprenticeship.



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? Apply now

www.training2000.co.uk

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Proud to be part of the

