



University of Lancashire

Training 2000

INFORMATION FOR STUDENTS



Lead Engineering Maintenance Technician

Level 4 Apprenticeship

This role is all about using your engineering skills to make things work and work better. You'll help design, upgrade, test, and maintain important systems, machinery, or equipment that keep industries moving. One day you might be planning a big overhaul or solving a tricky technical problem, and the next you could be out in the field making sure everything runs safely and smoothly.

You'll be part of projects that are complex, hands-on, and sometimes totally unique, where you'll plan, lead, and deliver work that really matters. You'll analyse data, schedule maintenance, and make sure everything meets high quality and safety standards. You'll also work closely with teams, customers, and specialists to find smart solutions when challenges pop up.

Whether you're in the office designing maintenance plans, in the workshop testing new systems, or on-site getting things up and running again, no two days are the same.

What you'll learn

Safety and Risk Management

Establish and implement appropriate safety control measures for each maintenance activity, ensuring that all relevant personnel are informed. Maintain a strong focus on completing every task safely, efficiently, and in full compliance with safety requirements.

Technical Analysis and Interpretation

Gather, interpret, and analyse technical information such as design briefs, maintenance manuals, operating specifications, calibration records, and asset performance data. Use this information to make informed engineering and maintenance decisions.

Maintenance Planning and Preparation

Plan maintenance activities to guide the maintenance team effectively. Ensure that work instructions, permits, safety briefings, and contact details are available in advance, alongside the necessary materials, tools, and resources.

Duration:

Minimum 2 years / maximum 3 years

Year 1/2 - 1 day per week to complete the HNC in Mechatronics

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.

Execution of Maintenance Activities

Lead or undertake maintenance, modifications, repairs, upgrades, and alterations to systems, plant, and equipment. Provide technical and team leadership where appropriate to ensure high-quality and timely completion of all activities.

Inspection and Performance Monitoring

Carry out inspection activities on systems and equipment, including checks on pressures, flows, temperatures, installation quality, and material condition. Conduct feasibility assessments to identify potential improvements or issues.

Communication and Technical Leadership

Communicate significant technical or maintenance issues promptly to relevant teams. Provide clear leadership, advice, and guidance to support effective problem-solving and continuous progress.

Stakeholder Coordination

Work collaboratively with internal and external stakeholders – such as asset managers, operators, suppliers, auditors, and customers – to ensure maintenance and engineering operations are completed within agreed timescales and standards.

Problem Solving and Issue Resolution

Address unexpected technical, process, or team-related issues using a structured and controlled approach. Escalate matters appropriately to maintain efficiency and safety.

Documentation and Reporting

Generate accurate and complete documentation upon the completion of maintenance work. Provide reports, test forms, defect logs, and handover records to support future maintenance planning and asset management.

Continuous Improvement

Review maintenance and engineering procedures regularly to identify opportunities for improvement in processes, materials, resource use, costs, efficiency, and quality. Contribute to the ongoing development of best practices.

How you'll be assessed?

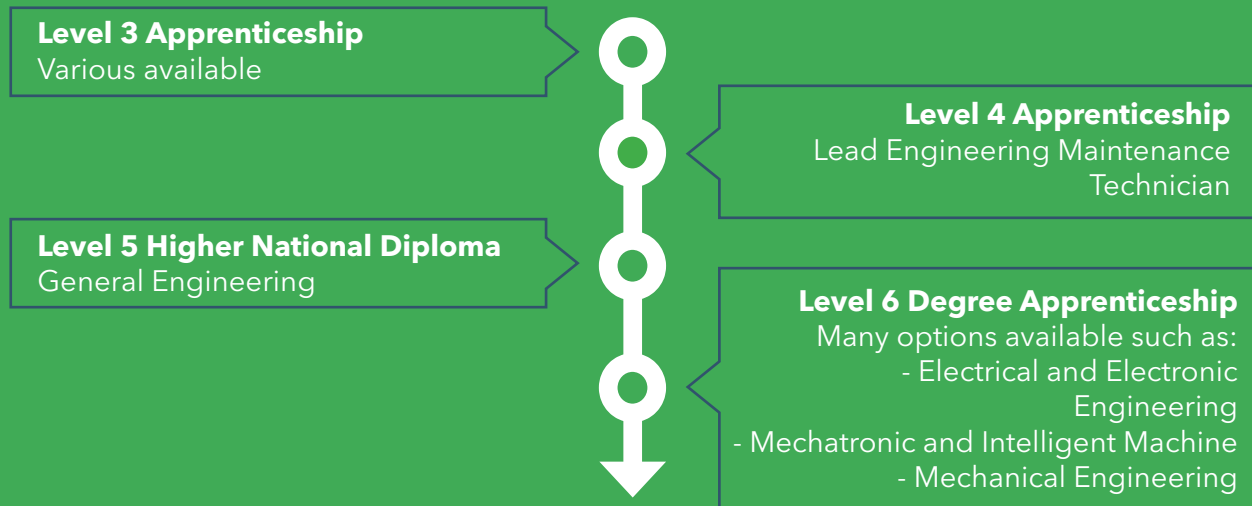
At the end of your Apprenticeship you'll go through an end-point assessment (EPA) and be graded a fail, pass or distinction based on a:

1. Project report and presentation with questions

2. Professional discussion underpinned by a portfolio of evidence

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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