University of Lancashire
Training 2000

INFORMATION FOR STUDENTS

Apprenticeships

Mechatronics Maintenance Technician

Level 3 Apprenticeship

Mechatronics maintenance technicians carry out a broad range of activities which may include installation, testing, fault finding, rectification, modifications and the on-going planned maintenance of complex automated equipment. This requires the application of a blend of skills, knowledge and occupational behaviours across the electrical, electronic, mechanical, fluid power and control systems disciplines.

Duration: 3 - 4 years (depending on your employers needs)

Year 1* - full time at Training 2000

OR x4 five week blocks and 1 day per week to complete the Technical Certificate (if required)

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

Year 3/4 - assessment in the workplace

Where will I study:
Training 2000, Blackburn

Entry requirements:
A minimum of four GCSEs at grade 4 (C) or above including English, Maths, Science and Technology is desirable. Other equivalent qualifications are acceptable

*Year 1 full time at Training 2000 could be for a minimum of 6 months to a maximum of 12 months.
Year 1 blocks could take between 12 and 18 months to complete. Full time or block training to be decided by employer.

What you'll learn

Taking ownership and preparing for task completion
Accept responsibility for the task and complete any preparatory documentation or opening of electronic recording that may be required to commence the task.

Coordinate and communicate maintenance
Plan and prepare the maintenance activities to cause minimal disruption to normal working, agree planned actions and obtain any required permits or permissions required to carry out the task. Communicate and report issues affecting equipment availability that may impact on operations

Resource selection and preparation
Select, obtain and prepare all resources required to carry out the task for example: tools, materials, documentation, permits. Carry out pre-use checks of equipment, tools and other resources.

Safe systems of work
Set up safe systems of work ensuring that statutory regulations and organisational compliance requirements are met.

Component manufacture & repair
Manufacture, repair or refurbish components using a range of hand and machine tools.

Mechatronics maintenance compliance
Perform mechatronics maintenance activities ensuring all parts and consumables used in the maintenance activity comply with manufacturers specifications.

Documentation control & compliance
Revise, edit, update and store documentation. Comply with organisational policies and legislation regarding document and electronic storage.

Planned preventative maintenance
Carry out planned preventative maintenance including functional, static and operational checks on complex equipment and assets.

Condition monitoring techniques
Apply condition monitoring techniques or use condition monitoring results (for example oil, vibration, thermal, NDT) to determine equipment condition.

Testing, measurement & diagnosis
Use a range of test and measuring equipment (including both electrical and physical measures) and appropriate calculations required to carry out the task and to aid in fault diagnosis.

Equipment reinstatement & checks
Return equipment to operational condition, re-connect any ancillary equipment and services, and carry out required functional, static, quality and operational checks to confirm equipment serviceability and fitness for purpose.

Workplace restoration & handover
Restore workplace and leave in a safe condition. Hand over completed work to responsible parties confirming completion of maintenance activities.

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. Observation with questions
2. Interview based on a portfolio of evidence

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.

IET The Institution of Engineering and Technology

Accredited Scheme

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.

Level 3 Apprenticeship
Various available

Level 4 Higher National Certificate
Electrical and Electronic Engineering
Mechatronics
Manufacturing Engineering

Level 5 Higher National Diploma
General Engineering

Level 6 Degree Apprenticeship
Many options available such as:
- Electrical and Electronic Engineering
- Manufacturing Engineering
- Mechanical Engineering

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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