



## MECHATRONICS MAINTENANCE TECHNICIAN APPRENTICESHIP

**Level:**

3

**Duration:**

Up to 4 years

**Entry requirements:**

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

**Overview:**

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.





## Aim:

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

## Where Can I Study?

Training 2000 Blackburn

Year 1 – full time at Training 2000 OR x6 four week blocks

Year 2 – 1 day per week

Year 3-4 – assessment in your workplace

## Any other useful Information:

### Specific Specialist Knowledge:

- 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

### Specific Specialist Skills:

- 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
- contribute to the business by identifying possible opportunities for improving working practices, processes and/or procedures

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