

ENGINEERING TECHNICIAN

MECHATRONICS MAINTENANCE TECHNICIAN APPRENTICESHIP - LEVEL 3

WHY YOU?

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.

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)

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

Year 3-4 - assessment in your workplace

TRAINING LOCATION: 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.

JOB ROLES INCLUDE: Plant and Systems Maintenance Technician, Mechatronics Engineer, Multi-skilled Maintenance Engineer

OUR OFFER INCLUDES:

- Training 2000 registration and pass
- Structured delivery programme
- Assessor visits and reviews in your workplace
- Synoptic / end point assessment
- Accredited Health and Safety training
- Awareness training in drugs, financial and driver safety

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.



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COURSE DETAILS

SPECIFIC SPECIALIST 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

MANDATORY QUALIFICATIONS

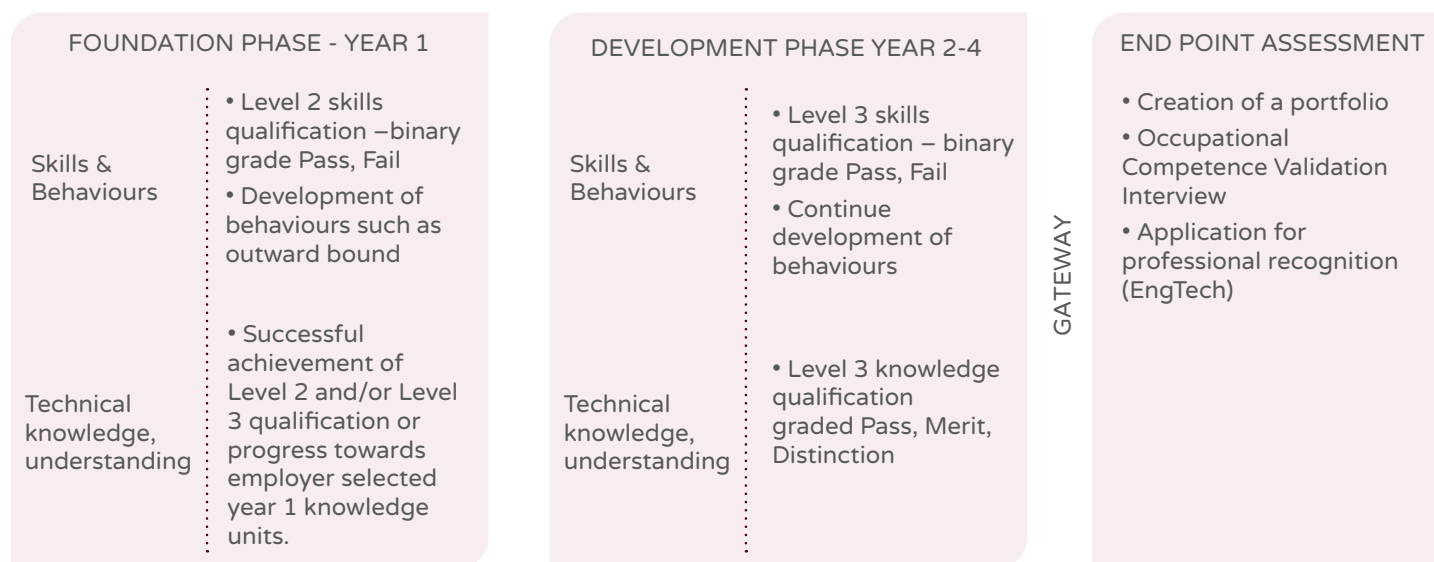
AFTER A PERIOD OF FOUNDATION SKILLS AND TECHNICAL KNOWLEDGE DEVELOPMENT ALL APPRENTICES WILL BE REQUIRED TO ACHIEVE THE FOLLOWING QUALIFICATIONS

- 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)

END POINT ASSESSMENT



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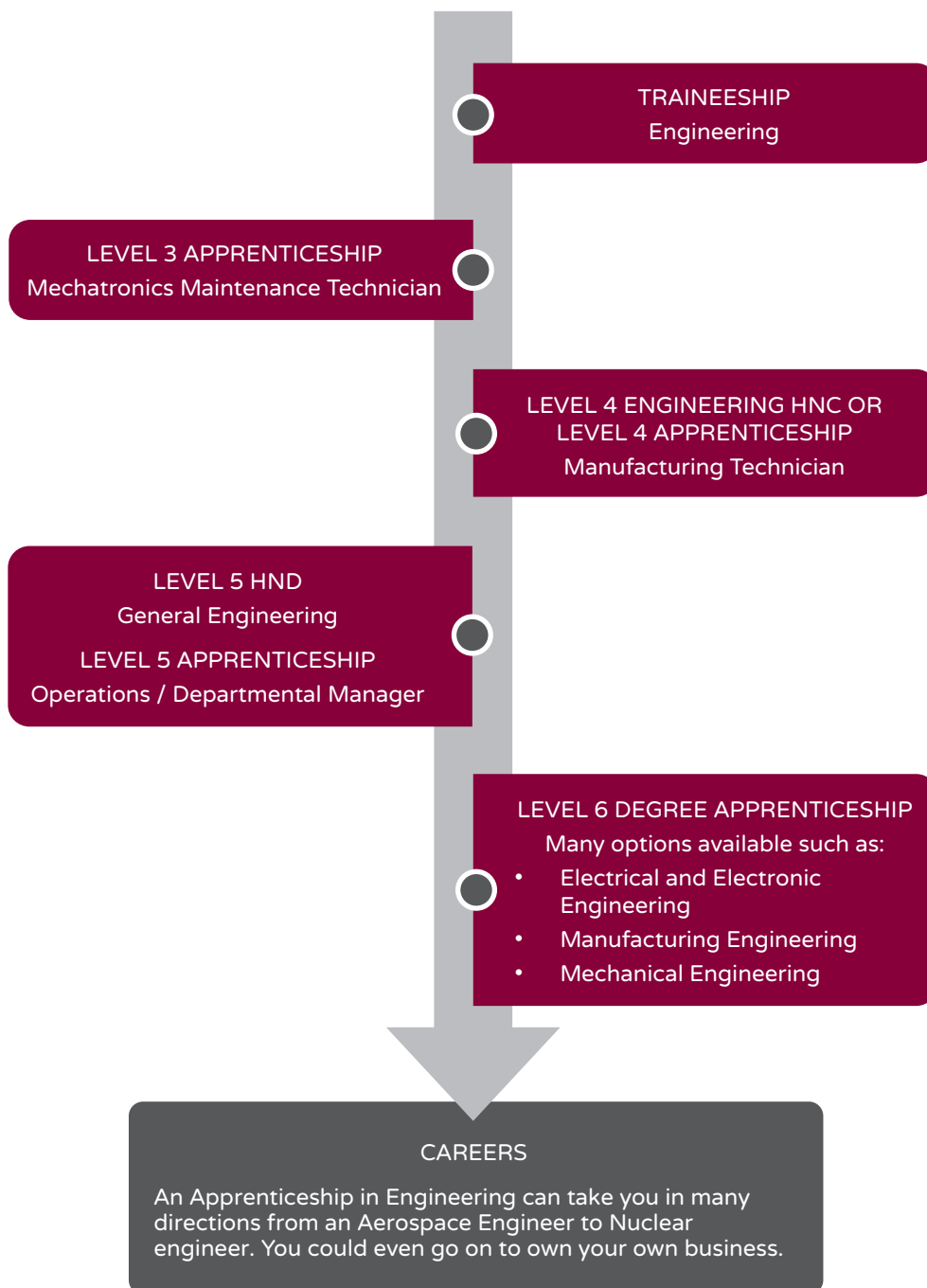


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YOUR APPRENTICESHIP CAREER PATH

Below is an example career path showing how you can progress up to a Level 6 qualification. At the end of every qualification you have the option to leave your education and progress with your career - you don't need to study up to level 6.



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