

# MECHATRONICS MAINTENANCE TECHNICIAN ENGINEERING Apprenticeship

## EMPLOYER FACTSHEET

### GROW YOUR OWN TALENT

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.

## Key Information

Level	3
Duration	Typically 42-48 months
Entry requirements	- 16 years or over. - Please contact our Apprenticeship team for further entry requirements.
Delivery	A minimum of 30 hours of on the job training at work place, 2 days per week including a day to study theory at our Uxbridge campus
Key responsibilities	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.
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 Plus one of the following - Level 3 Diploma in Engineering Technology (QCF) - Level 3 Extended Diploma in Engineering Technologies (QCF) - Level 3 Diploma or Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge)
Professional Recognition	Completion of the Apprenticeship is designed to be recognised by relevant Professional Engineering Institutions at the appropriate level of professional registration (EngTech).

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We are the largest college provider of apprenticeships in west London



We work with major companies including British Airways  
Brunel University London & Menzies etc.



Government funding may be available. Eligibility and criteria apply

## Employers involved in creating this standard:

BAE Systems plc, Semta Limited, Airbus Group, The Institution of Engineering and Technology, Gama Aviation Ltd, Harrods Aviation Ltd, British Airways, Marshall Aerospace and Defence Group, UTC Aerospace Systems, Resource Group, MBDA (UK) Ltd, GTA England Ltd, Rolls-Royce plc, NFEC Ltd, GKN Aerospace, Royal Aeronautical Society, Royal Air Force Cosford, Royal Navy, Cooper & Turner, Nikken Kosakusho Europe Ltd, Edward Pryor & Son Ltd, Newburgh Precision, Institution of Mechanical Engineers, Siemens plc, Jaguar Land Rover, Toyota Motor Manufacturing (UK) Ltd, BMW, The Engineering Employer Federation, Leonardo Helicopters UK, Babcock International Group, Mersey Maritime Group

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## Apprenticeships & Skills

Harrow, Richmond & Uxbridge Colleges

## Modules and Content

### 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 (where applicable)

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