**Role Description & Person Profile**

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| Job title: | Apprentice Mechatronics Maintenance Technician (Level 3) |
| Reports to: | Maintenance Lead |
| Location: | Rugeley & Fradley Park |
| Direct & Indirect Reports: | No reports |
| Role Overview | Maintenance is the use of different systems and processes to ensure that facilities, layout and machinery used to produce new and existing materials and goods run to their maximum efficiency and output. This includes total preventative maintenance, managing breakdowns and repair. This is an apprenticeship program which includes a programme of training to gain full working knowledge in all aspects of Maintenance including learning to diagnose faults leading to repair, as well as maintaining facilities process equipment. To assist and support with planned and reactive maintenance as well as liaise with internal stakeholders and subcontractors.Typically, the duration of the apprenticeship is 36 – 48 months. This duration may be reduced for a candidate with previous relevant experience and or / someone already part qualified. A Level 3 engineering qualification will be achieved. The training provider will be local to the Rugeley / Fradley Park sites.  |
| Key Responsibilities:  | * Use different systems and processes to ensure that facilities, layout and machinery used to produce new and existing materials and goods run to their maximum efficiency and output.
* 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.
* Work on a broad range of activities including installation, testing, fault finding and the on-going planned maintenance of complex automated equipment.
* Apply of a complex blend of skills, knowledge, and occupational behaviours across the electrical, electronic, mechanical, fluid power and control systems disciplines
* Use and interpret a range of engineering data sources and supporting documentation.
* Utilise lean techniques to improve efficiency & effectiveness.
* Where appropriate, support installation, testing and commissioning of a wide range of equipment.
* Carry out complex fault diagnosis and repair on high technology engineered systems.
* Maintain mechanical equipment.
* Maintain fluid & pneumatic power equipment.
* Maintain electrical & electronic equipment.
* Maintain process control equipment.
* Minimise machinery downtime by carrying out preventative planned maintenance.
* Confirm testing and subsequent smooth hand over of equipment & plant.

The apprentice will need to develop a solid grasp of the core job skills and then apply them in the workplace in a logical and systematic approach. These skills will not only allow the apprentice to demonstrate that they have the required manual dexterity to do their current role, but their competencies are transferable and can be built upon over time, as the technology involved continues to rapidly advance. As a core the technician needs to have a solid grasp of:* Statutory regulations and how to comply with stringent organisational safety requirements.
* How to use and interpret a range of engineering data sources and supporting documentation
* Key Performance Indicators, utilising lean techniques to improve efficiency and effectiveness.
* Where appropriate, how to support installation, testing and commissioning a wide range of equipment.
* How to carry out complex fault diagnosis and repair on high technology engineered systems:
	+ Maintaining mechanical equipment
	+ Maintaining fluid and pneumatic power equipment
	+ Maintaining electrical and electronic equipment
	+ Maintaining process control equipment
* How to minimise machinery downtime by carrying out preventative planned maintenance
* Confirmation testing and subsequent smooth hand over of equipment and plant.

The academic learning that is required to underpin the above vocational skills will allow the apprentice to demonstrate a thorough breadth and depth of understanding of relevant maintenance principles, appropriate to and in the context of their company’s needs. As a core the technician needs to cover the required academic Guided Learning Hours in order to have a solid grasp of:* Analytical and Scientific Methods for Engineers
* Project Design, Implementation and Evaluation
* Instrumentation and Control Principles & Applications
* Mathematics for Technicians
* Mechanical, Electrical, Electronic and Digital Principles & Applications
* Quality Assurance Principles Within Mechatronic Systems
* Applications of Pneumatics and Hydraulics
* Health, Safety and Risk Assessment in Engineering
* Plant and Process Principles & Applications
* Condition Monitoring and Fault Diagnosis
* Business Improvement Techniques
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| Budget Responsibility: | No budget responsibility |

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| **Person Profile/Knowledge** Experience, any formal qualifications and necessary keys areas of knowledge or experience. |
| **Essential** | **Desirable** |
| Possess 3 GCSEs or higher (grades 9-4 or A\*-C) including Maths, English and a science / technical qualification |  |
|  | Driving licence |
| **Key Behaviours** | We require our apprentice to have the following behaviours:* Safety Mindset: This occupation sits within an industry with a high level of safety critical activities. There must be strict compliance and a disciplined and responsible approach to manage, mitigate, and avoid risk.
* Strong work ethic: Positive attitude, motivated by engineering; dependable, ethical, responsible, and reliable.
* Respect for others: Acts always with consideration to others and actively promotes equality and diversity.
* Logical approach: Able to structure a plan and develop activities following a logical thought process, but also able to quickly “think on feet” when working through them.
* Problem solving orientation: Identifies issues quickly, enjoys solving complex problems and applies appropriate solutions. Has a strong desire to push to ensure the true root cause of any problem is found and a solution identified which prevents further recurrence.
* Quality focus: Follows rules, procedures, and principles in ensuring work completed is fit for purpose and pays attention to detail / error checks throughout activities.
* Personal responsibility and resilience: Motivated to succeed, accountable and persistent to complete task
* Clear communicator: Use a variety of appropriate communication methods to give/receive information accurately, and in a timely and positive manner.
* Team player: Not only plays own part but able to work and communicate clearly and effectively within a team and interacts/ helps others when required. In doing so applies these skills in a respectful professional manner
* Applies Lean Manufacturing Principles: Continuous Improvement in driving effectiveness and efficiency.
* Adaptability: Able to adjust to different conditions, technologies, situations, and environments
* Self-Motivation: A ‘self-starter’ who always wants to give their best, sets themselves challenging targets, can make their own decisions.
* Willingness to learn wants to drive their own continuous professional development.
* Commitment: Able to commit to the beliefs, goals, and standards of their own employer and to the wider industry and its professional standards
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| **Other Factors**Travel, shift pattern, working hours, Licence type etc. | You will be required to travel to college and travel between our Rugeley and Fradley Park Sites via your own means of transport.  |

