

Mechatronics Maintenance Technician (ST1326) 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. This requires the application of a blend of skills, knowledge and occupational behaviours across the electrical, electronic, mechanical, fluid power and control systems disciplines. They prepare for the maintenance activity and inform stakeholders of work status. They also complete documentation, handover work, set up their work area and are required to be competent in safe engineering practices for their own safety and those around them.

Apprentices will achieve a Level 3 BTEC Diploma in Advanced Manufacturing Engineering. They will also achieve in addition to this the Level 3 Extended Diploma in Engineering Maintenance as an additional qualification at no extra charge.

Expected course duration

4 years.

College attendance

Bedford – Year 1 – 2 days attendance, Year 2 – 1 day attendance, Year 3 – 1 day attendance, Year 4 – Workplace assessments.

Leighton Buzzard - Year 1 – 1 day attendance, Year 2 – 1 day attendance, Year 3 – 1 day attendance, Year 4 – Workplace assessments.

When do annual college day release intakes take place?

September 2025.

When can the apprentice start employment?

July/August.

When can the apprenticeship training start?

September.

Course content

Areas covered include:

Hand fitting, Welding (Bedford only) Mechanical Assemblies (Leighton Buzzard), Electrical installation and wiring and testing.

Knowledge, skills and behaviours developed:

- Health and safety
- Planning and scheduling work
- continual professional development
- continuous improvement techniques and problem solving
- environmental and sustainability
- information technology
- quality assurance and processes
- team working, equity, diversity and inclusion
- verbal communications
- Condition monitoring and testing
- Maintenance activities
- Fault diagnosis and rectification

Entry requirements

- Maths and English GCSE minimum Grade 4

Assessment methods

Observations, professional discussions, written job reports.

Qualification

Pearson BTEC Level 3 BTEC Diploma in Advanced Manufacturing Engineering
Level 3 Extended Diploma in Engineering Maintenance

What training is required in the workplace?

Employer to ensure workplace training is in line with the Standard's Knowledge, skills and behaviours.

Further study and career options

Level 4 Engineering Manufacturing Technician.

Additional information

Apprentices will need to ensure they have PPE for the practical workshop delivery this includes overalls, steel toecap boots, safety goggles and gloves.

Campuses

Study is available at the following campuses: Bedford College and Central Bedfordshire College, Leighton Buzzard Campuses.

For more information, please visit here:

[Mechatronics maintenance technician / Institute for Apprenticeships and Technical Education](#)

How to apply

Through the apprenticeship vacancy page of our website:

<https://bedfordcollegegroup.ac.uk/study/apprenticeships/apprenticeship-vacancies/>

and the national apprenticeship website:

<https://www.apprenticeships.gov.uk/>