

Engineering (Mechatronics pathway)

Course	Qualification	Type	Level	Length
Engineering (Mechatronics pathway)	Level 3 Diploma in Advanced Manufacturing Engineering (Development Competence)	ST ND	L3	48 months



Receive a real qualification

Earn while you learn

Career progression opportunities

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.

ST ND APPRENTICESHIP STANDARD

An Apprenticeship Standard programme is occupation-focused and concentrates on the relevant knowledge, skills and behaviours required to complete the programme successfully.

PROGRESSION OPPORTUNITIES

Completion of this Apprenticeship is designed to be recognised by relevant Professional Engineering Institutions at the appropriate level of professional registration (EngTech).

ASSESSMENT METHODS

- On-programme
- End Point Assessment

ENTRY REQUIREMENTS

- A-C/9-4 GCSE in English & maths OR Level 2 functional Skills in English and maths
- Employers may request additional entry criteria

Programme timeline - Apprenticeship Standard 48 Months



INDUCTION: First 6 weeks	ON-PROGRAMME PHASE: Month 01-45	GATEWAY: Month 46-48	END-POINT ASSESSMENT: 1 day during final 3 months	CERTIFICATION: Final 4-6 weeks
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- Programme overview/unit selection
- English and maths diagnostic
- Functional Skills support (where appropriate)
- Health and Safety, Equality and Diversity, Prevent and British Values
- Expectations and induction targets
- End-Point Assessment requirements
- Full time College based for Year 1
- Day release delivery for year 2 & 3
- Work based year 4
- Work based assessment visits every 4 – 6 weeks from year 2 to the end of the programme
- Development of an e-portfolio of evidence Progress
- Reviews every 10 weeks
- Completion of the following qualifications:
 - Level 2 Advanced Diploma in Advanced Engineering
 - Level 2 Award for foundation phase Gateway Assessment
 - BTEC Level 3 Diploma in Advanced Manufacturing Engineering (Development Technical Knowledge)
 - Level 3 Diploma in Advanced Manufacturing Engineering (Development Competence)
- All Skills, Knowledge & Behaviours achieved and evidenced
- Confirmation of completion of mandatory qualifications
- Submit Portfolio of evidence
- Preparation for Employer Occupational Validation Interview (Viva)
- Gateway confirmation declaration
- Employer Occupational Validation Interview (Viva)
- Professional Engineering Institute (PEI) or Military Independent Assessment Authority (MIAA) carries out an independent assessment of Skills, Knowledge & behaviours
- PEI/MIAA quality assure the viva interview and ensure qualifications have been completed
- Apprenticeship with certification from the Institute of Apprenticeships.
- Certification for:
 - Level 2 Advanced Diploma in Advanced Engineering
 - Level 2 Award for foundation phase Gateway Assessment
 - BTEC Level 3 Diploma in Advanced Manufacturing Engineering (Development Technical Knowledge)
 - Level 3 Diploma in Advanced Manufacturing Engineering (Development Competence)

EPA (End Point Assessment). All apprentices must undertake an independent End-point Assessment at the end of the on-programme phase of training, when their employer (supported by the College) is satisfied they have met the Gateway* criteria to undertake the assessment.

End-point Assessments are graded and an apprenticeship certificate is only awarded after the assessment is successfully completed.

* Gateway

When an apprentice reaches the end of their training, the employer (supported by the College) will make the decision on whether the apprentice is ready to progress towards the End-point Assessment. This process or stage is known as the gateway.

