



# MAINTENANCE AND OPERATIONS ENGINEERING TECHNICIAN

The Maintenance and Operations Engineering Technician apprenticeship equips individuals with essential skills in maintenance and operations engineering. Apprentices gain practical abilities and theoretical knowledge in various technical tasks, ensuring machinery efficiency. They develop a solid foundation in engineering principles, focusing on maintenance, diagnostics, and problem-solving. The programme covers electrical and electronic systems, mechanical systems, fluid power systems, and control systems. Apprentices gain hands-on experience in diagnosing faults, conducting repairs, and implementing preventive maintenance. Communication and teamwork skills are emphasized for collaboration with colleagues to optimize efficiency.

Continuous professional development is encouraged to stay updated with technology and industry practices. Completing the apprenticeship enables individuals to work effectively in maintenance and operations engineering roles, contributing to machinery reliability and organisational success.



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**Level 3**



**£0 to £1300**

*Maximum cost for non-levy employers and micro-businesses*



**36+ months**

*Approximate on-programme training (does not include EPA period)*



**£26,000**

*Maximum cost/funding for levy employers*



## Knowledge

- First principles relating to the operation and maintenance of appropriate plant and equipment
- Relevant industry health and safety standards, regulations, and environmental and regulatory requirements
- Maintenance and operational practices, processes and procedures covering a range of plant and equipment
- The relevant engineering theories and principles relative to their occupation



## Skills

- Comply with industry health, safety and environmental working practices and regulations
- Locate, and rectify, faults on plant and equipment
- Communicate with and provide information to stakeholders in line with personal roles and responsibilities
- Read, understand and interpret information and work in compliance with technical specifications and supporting documentation
- Prepare work areas to undertake work-related activities and reinstate those areas after the completion of the work-related activities
- Inspect and maintain appropriate plant and equipment to meet operational requirements
- Assess and test the performance and condition of plant and equipment
- Communicate, handover and confirm that the appropriate engineering process has been completed to specification



## Behaviours

- Health & Safety
- Quality focused
- Working with others
- Interpersonal skills
- Critical reasoning
- Sustainability and ethical behaviour
- Risk awareness

## ENROLMENT TIMELINE

- 01 Complete the online skills scan
- 02 Accept the Team's invitation to an induction session
- 03 Register in Bud (photo evidence of ID required)
- 04 Complete initial assessments (Functional Skills)
- 05 Attend enrolment session
- 06 Sign enrolment forms

CONGRATULATIONS YOU ARE NOW ON THE PROGRAMME



# MAINTENANCE AND OPERATIONS ENGINEERING TECHNICIAN ROADMAP

Modules are delivered holistically through-out the programme.

42+ months

36+ months

6+ months

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6	Module 7	Module 8	Module 9	End-Point Assessment	
Apprenticeship Induction	Engineering Health and Safety	Fundamental engineering principles and concepts	Fundamental principles in engineering, such as mechanics, thermodynamics, and materials science	Best practices for the maintenance of machinery and equipment	Knowledge of electrical systems and equipment commonly used in engineering	Identifying and diagnosing faults and issues in machinery and equipment	Maintenance techniques, including lubrication, cleaning, and adjustments	Preparation for Endpoint assessment – Mock Knowledge-based assessments		
<b>INDUCTION</b>	Online Masterclass	Online Masterclass	Online Masterclass	Online Masterclass	Online Masterclass	Online Masterclass	Online Masterclass	Online Masterclass		
Evidence Portfolio	Evidence Portfolio	Evidence Portfolio	Evidence Portfolio	Evidence Portfolio	Evidence Portfolio	Evidence Portfolio	Evidence Portfolio	Evidence Portfolio	<b>EPA GATEWAY</b>	
Preparing for your apprenticeship training Professional development and CPD	Understanding and following safety regulations and procedures in engineering environments Identifying potential hazards and taking necessary precautions to ensure a safe work environment Applying risk assessment techniques to mitigate potential risks and hazards Engineering theories	Studying theoretical frameworks and models that underpin engineering practices Applying engineering theories to practical scenarios and problem-solving First principles	Applying first principles to analyze and solve engineering problems Using mathematical and scientific principles to make accurate engineering calculations and predictions Maintenance practices	Understanding preventive maintenance strategies to minimize downtime and extend the lifespan of assets Implementing maintenance schedules and procedures to ensure efficient operation and reliability Electrical equipment	Understanding electrical circuits, components, and safety precautions Performing maintenance, troubleshooting, and repairs on electrical equipment Fault diagnosis	Using diagnostic tools and techniques to assess the root causes of malfunctions Analysing data and symptoms to determine appropriate corrective actions Maintenance techniques	Understanding predictive and condition-based maintenance approaches Applying appropriate techniques for different types of machinery and equipment to ensure optimal performance and reliability	Mock Practical Observations Mock Technical interview Completion & signoff of evidence portfolio		<b>REMOTE ASSESSMENT</b> Knowledge-based assessment
1-2-1 tutor review	1-2-1 tutor review	1-2-1 tutor review	1-2-1 tutor review	1-2-1 tutor review	1-2-1 tutor review	1-2-1 tutor review	1-2-1 tutor review	1-2-1 tutor review		<b>LIVE ASSESSMENT</b> Practical Observations Technical interview and evidence portfolio

Formal review every 8-12 weeks

0 - 6 months Functional Skills based on Prior Qualifications and Assessment results

3-day quarterly block release at Worcester Training Centre

City & Guilds  
AWARD OF EXCELLENCE



**APPROVED EPA PROVIDER**  
GLP Training has gained the recognition of excellence in apprenticeship delivery by City and Guilds.

