Level 3 Maintenance Operations Engineering Technician

Apprenticeship overview

As a Maintenance Operations Engineering Technician, you will take responsibility for maintaining and ensuring the safe and efficient operation of plant machinery or equipment. Working as part of a team you will support with equipment and machinery breakdowns and planned preventative maintenance (PPM).

This role can be found in many industries throughout the engineering sector such as electricity generation, oil and gas refining, and pharmaceuticals and food manufacturing sites.

As you progress through this apprenticeship programme, you will choose a pathway to specialise in. At PETA, we offer the Electrical Technician, Mechanical Technician and Electromechanical Technician pathways.

Key programme facts

- **Qualification level:** Level 3
- **Total duration:** 48 Months
- **Practical period:** 45 Months
- **End point assessment:** 3 Months
- **Training Days:** 1 day per week
- **Awarding body:** EAL, Pearson and City & Guilds

Entry requirements

- Maths & English GCSE at Grade 4 or an equivalent qualification
- An active interest in engineering maintenance

Potential job roles

- Maintenance Technician
- Electrical Technician
- Mechanical Technician
- Electromechanical Technician
- Maintenance Support Engineer

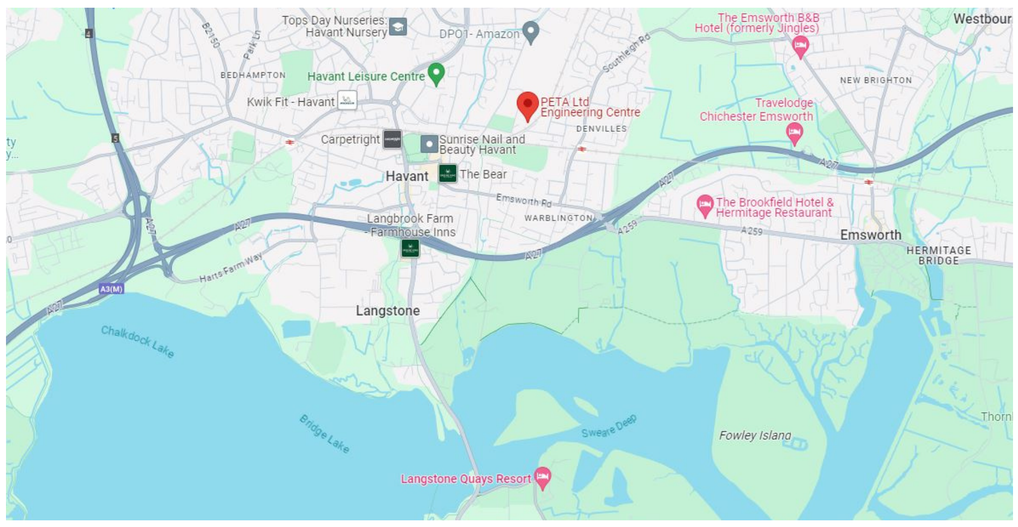
Qualifications to achieve

- Level 3 Maintenance Operations Engineering Technician Apprenticeship
- Level 3 Diploma in Advanced Manufacturing Engineering
- Level 3 Diploma in Engineering Maintenance

Training location

Transport links

- Warblington train station (15-minute walk)
- Havant train station (10-minute walk)
- Havant bus station (15-minute walk)
- Free onsite parking



PETA Engineering Training Centre

5 Kenwood Business Park, New Lane, Havant, PO9 2NT

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How you will learn

As a Maintenance Operations Engineering Technician Apprentice, you will attend PETA's training centre one day per week.

While at our training centre, you will cover a range of different units that will help to develop your knowledge of engineering theory and give you the chance to gain practical hands-on experience in our workshop.

These will include producing components using hand fitting techniques, maintaining electrical and mechanical equipment and carrying out engineering activities efficiently and effectively.

Throughout your apprenticeship, you will be supported by a learning and development coach who will visit you every 6-8 weeks in your workplace. They will work closely with you and your employer to set learning objectives, undertake practical observations, and provide you feedback on your apprenticeship progress.

Alongside the training delivered by PETA, your employer will be providing you with a rigorous training schedule to support you in the workplace.

How you will be assessed

Throughout your apprenticeship, you will be working towards your end point assessment (EPA). Your end point assessment will be conducted by an external examining body and will be made up of three key elements. For the Maintenance Operations Engineering Technician these are:

- Workplace observation including verbal questioning (Duration 4 hours)
- Online multiple choice knowledge test
- Professional interview based on showcase portfolio (3 reports)

These three key elements have been designed to enable you to demonstrate the key knowledge, skills and behaviours you have developed during your training. The possible outcomes of your EPA are Pass, Merit and Distinction.

Progression routes

Upon completion of this apprenticeship you may be offered the chance for promotion within your current organisation. You could also progress via the apprenticeship route by completing:

- Level 4 Lead Engineering Maintenance Technician Apprenticeship

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Apprenticeships are all about developing new Knowledge, Skills and Behaviours (KSB). These KSBs form the foundation of the core competencies and attributes you need in order to be successful as a Maintenance Operations Engineering Technician

These KSBs are the basis for your end point assessment.

Core knowledge

K1 First principles relating to the operation and maintenance of appropriate plant and equipment
K2: Relevant industry health and safety standards, regulations, and environmental and regulatory requirements
K3: Maintenance and operational practices, processes and procedures covering a range of plant and equipment
K4: The relevant engineering theories and principles relative to their occupation

Core skills

S1: Comply with industry health, safety and environmental working practices and regulations
S2: Locate and rectify faults on plant and equipment
S3: Communicate with and provide information to stakeholders in line with personal role and responsibilities
S4: Read, understand and interpret information and work in compliance with technical specifications and supporting documentation
S5: Prepare work areas to undertake work related activities and reinstate those areas after the completion of the work related activities
S6: Inspect and maintain appropriate plant and equipment to meet operational requirements
S7: Assess and test the performance and condition of plant and equipment
S8: Communicate, handover and confirm that the appropriate engineering process has been completed to specification

Behaviours

B1: Health and Safety – follows health and safety policies and procedures and be prepared to challenge unsafe behaviour using appropriate techniques to ensure the protection of people and property when working alone or with appropriate supervision
B2: Quality focused – ensures that work achieves quality standard both occupationally and personally
B3: Working with others – works well with people from different disciplines, backgrounds and expertise to accomplish an activity safely and on time
B4: Interpersonal skills – gets along well with others and takes into account their needs and concerns
B5: Critical reasoning – uses resources, techniques and obtained facts to develop sound solutions while recognising and defining problems
B6: Sustainability and ethical behaviour – behaves ethically and undertakes work in a way that contributes to sustainable development
B7: Risk awareness – demonstrates high concentration, the desire to reduce risks, ability to be compliant and awareness of change, through regular monitoring and checking of information

Electrical Technician

Choosing to specialise as an Electrical Technician, you will also learn how to:

- Position, assemble, install and dismantle electrical plant and equipment, which may include motors, switchgear, cables and conductors, to agreed specifications
- Carry out planned, unplanned and preventative maintenance procedures on electrical plant and equipment
- Replace, repair or remove components in electrical plant and equipment and ensure its return to operational condition
- Diagnose and determine the cause of faults in electrical plant and equipment

Mechanical Technician

Choosing to specialise as a Mechanical Technician, you will also learn how to:

- Position, assemble, install and dismantle mechanical plant and equipment which may include pumps, valves, gearboxes, pipework, to agreed specifications
- Carry out planned, unplanned and preventative maintenance procedures on mechanical plant and equipment
- Replace, repair or remove components in mechanical plant and equipment and ensure its return to operational condition
- Diagnose and determine the cause of faults in mechanical plant and equipment

Electromechanical Technician

Choosing to specialise as a Electromechanical Technician, you will also learn how to:

- Position, assemble, install and dismantle integrated electromechanical power and control systems
- Carry out planned, unplanned and preventative maintenance procedures on integrated plant and equipment
- Replace, repair or remove components within integrated plant and equipment and ensure its return to operational condition.
- Diagnose and determine the cause of faults within integrated electromechanical power and control systems

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