

*Apprenticeship*  
**MAINTENANCE & OPERATIONS  
ENGINEERING TECHNICIANS**  
*Level 3*



*train | grow | succeed*

## Apprenticeship MAINTENANCE & OPERATIONS ENGINEERING TECHNICIANS Level 3

### Why study this course?

The Level 3 maintenance and operations technician's apprenticeship is for individuals who enjoy being stretched, challenged and have an inquisitive mind.

It allows learners to develop the knowledge and practise the skills required for employment in the maintenance and operating industry.

### Who is the course aimed at?

The course is aimed at anyone who is willing to gain knowledge and skills and be responsible for the quality of their own work, possibly others' and ensuring the work is completed safely and meets all requirements. An inquisitive mind is an advantage as a maintenance and operation technician role could include plant commissioning, isolation and testing, plant preparation, plant start-up and shut down, monitoring and controlling plant and dealing with critical operational problems.

### What will you study

You will study a range of subject areas, including but not limited to:

- ▶ *Complying with statutory regulations and organisational safety requirements*
- ▶ *Principles of engineering maintenance*
- ▶ *Using and interpreting engineering data and documentation*
- ▶ *Maintenance of mechanical, electrical and control systems*
- ▶ *Bench fitting, machining processes, basic welding techniques*

### Qualification gained

- ▶ *Level 3 Maintenance & Operations Engineering Mechanical Technical Apprenticeship.*

### Knowledge and skills you will develop

- ▶ *Relevant industry health and safety standards, regulations, and environmental and regulatory requirements*
- ▶ *First principles relating to the operation and maintenance of appropriate plant and equipment*
- ▶ *The relevant engineering theories and principles relative to their occupation*
- ▶ *Communicate with and provide information to stakeholders in line with personal role and responsibilities*
- ▶ *Position, assemble, install and dismantle mechanical/electrical plant and equipment to agreed specifications*
- ▶ *Carry out planned, unplanned and preventative maintenance procedures*
- ▶ *Replace, repair and/or remove components in mechanical/electrical plant and equipment and ensure its return to operational condition*
- ▶ *Locate, diagnose and determine the cause of faults in mechanical/electrical plant and equipment and rectify them.*

### Behaviours you will develop

- ▶ *Personal responsibility*
- ▶ *Effective teamwork, communication and interpersonal skills*
- ▶ *Focus on quality and problem solving*
- ▶ *Continuous personal development*
- ▶ *Sustainability and ethical behaviour*
- ▶ *Risk awareness*
- ▶ *Critical reasoning*

### Progression to further study

Successful apprentices can progress, if opportunity allows, onto:

- ▶ *HNC in Engineering*
- ▶ *HND in Engineering*
- ▶ *Maintenance Engineering Degree*

### Entry requirements

Individual employers will set the recruitment and selection criteria for their Apprenticeships. In order to optimise success, candidates will typically have a minimum 3 GCSEs at Grade C/4 including mathematics, English and science, or equivalent and/or relevant experience.

### How long will it last?

42 months (this does not include EPA period).

### How will it be delivered?

Attend college 1 day a week to produce sufficient evidence in the form of a portfolio to allow the apprentice to consistently demonstrate knowledge, skills and behaviours as described in the standard. The professional interview is based on the contents of the evidence portfolio.

There is no mandated qualification in this standard, however Level 3 Diploma in Engineering (Maintenance, Installation and Commissioning) (2850-33) and Level 3 NVQ Diploma in Engineering Maintenance (Mechanical) (1788-30) support the on programme element.

Competence will be constantly assessed in the workplace in preparation for the EPA.

### How will it be assessed?

Independent End-Point Assessment. Three stage skills assessment:

- ▶ *Stage 1: Online knowledge test*
- ▶ *Stage 2: Practical observation*
- ▶ *Stage 3: Professional interview*

### Further details

Further details on this Standard can be found at:  
[www.instituteforapprenticeships.org](http://www.instituteforapprenticeships.org)

### Who to contact

- ▶ *For more information please contact our Workforce Development Team on 01704 392874*