

Level 3

Maintenance and Operations Engineering Technician Apprenticeship

Maintenance & Operations Engineering Technicians covers 7 roles: Electrical Technicians; Mechanical Technicians; Control & Instrumentation Technicians; Wind Turbine Technicians Electrical System and Process Control Technicians; Electromechanical Technicians and Plant Operations Technicians.

Electrical/Mechanical/Control and Instrumentation/Wind Turbine Technicians will work on various types of plant and equipment commonly found throughout the Engineering Industry sectors and the Technicians can be expected to migrate through these sectors during the course of their careers. Dependent upon the sector that they are employed in there may be subtle differences in terms of the composition and application of the plant and equipment. However, the fundamental principles of operation will be the same regardless of the engineering sector.

To support the business and operational requirements of modern integrated engineered production plant and services, Electrical Systems and Process Control Technicians and Electromechanical Technicians will need to apply a range of conventional skills and knowledge to undertake engineering activities on a selection of electromechanical and process control plant, systems and equipment.

Plant Operation Technicians will undertake the safe and efficient operation of complex integrated energy conversion and production plant and systems. These activities could include plant commissioning, isolation and testing, plant

Who The Apprenticeship Is For

New entrants who want to work in an Engineering Environment and candidates who have already studied and obtained a Level 2 in Fabrication and Welding. All candidates must be keen and motivated to work in the engineering/manufacturing industry or be practically minded and want to work with their hands.

Entry Requirements

Five GCSEs at Grade 4(C) or above including English, Maths and Science.

Delivery Model

Work based training and assessments to complement the skills that are learnt, developed and used within the workplace

College based training currently one day per week day (term time only)

Day release to complete Functional Skills if required

Average duration is 36 months which includes an End Point Assessment

Programme Content

- 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
- 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 role 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

Contact Us

Apprenticeship Team

T: +44 (0)1509 515461

E: apprenticeships@loucoll.ac.uk

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preparation, plant start-up and shut down, monitoring and controlling plant and dealing with critical operational problems.

Development of assignments demonstrating learning from their job role or work place.

Practical observation to assess the application of skills within the workplace.

Professional discussion to holistically assess Knowledge, Skills and Behaviours across the standard and will be informed by reflective portfolio.

Maths & English

If an Apprentice has not already achieved Level 2 (GCSE C/4 or above) English & Maths they must study for and achieve Functional Skills Level 2 English & Maths.

This will be completed through a day release to attend Loughborough College.

these areas after the completion of the work related activities

Progression

Inspect and maintain appropriate plant and equipment to meet operational and Controls Engineering Technician Level 4

Assess and develop performance and condition of plant and equipment

Communicate, handover and confirm that the appropriate engineering process has been completed to specification

Position, assemble, install and dismantle specialist plant and equipment

which will include pumps, valves, gearboxes, pipework, to agreed specifications

Non Levy employers with 50+ staff or for an Apprentice aged 19+ - pay 5% of training costs.

Non Levy Employer with less than 50 staff and an Apprentice aged 18 or younger - fully funded

Replace, repair and/or remove components in specialist plant and equipment and ensure its return to operational condition

Disclaimer

Whilst every effort is made to ensure that the information contained on this website is correct, the College accepts no liability for any errors or omissions. Please note that details are subject to change without notice with regard to the provision of courses, course times and dates and the fees and charges levied.

Qualifications included in the Apprenticeship:

- Level 3 Apprenticeship Standard in Maintenance and Operations Engineering Technician
- Level 3 BTEC Diploma in Operations and Maintenance Engineering
- Level 2 NVQ Diploma in Performing Engineering Operations
- Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence)
- Level 3 BTEC Award in Advanced Manufacturing Engineering (Development Technical Knowledge)
- Level 2 NVQ in Performing Engineering Operations
- Level 2 Functional Skills English and maths (if required)

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