

# Engineering

## Maintenance and Operations Engineering Technician Level 3 Apprenticeship

### In Brief

#### Start Date / Duration

This apprenticeship programme can be started at any time and will run for 36 months.

#### Entry Requirements

Typically 3 GCSEs at grade C or higher including mathematics, English and science, or equivalent and/or relevant experience.

#### You will achieve

Level 3 Maintenance and Operations Engineering Technicians Apprenticeship Standard

### Course Overview

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

They will maintain the safety, integrity and effective operation of plant and equipment in one or more of the following Industries that are part of or have activities that are part of the broader national infrastructure Engineering Sector:

The electricity generating environment, which may use a range of different fuels including coal, gas, nuclear, wind and other renewable sources; telecommunications power plants; oil and gas refining; nuclear waste reprocessing; processing and production of chemicals; pharmaceuticals; human and animal food; cosmetics; petrochemicals; sewerage and the exploration and exploitation of oil and gas.

This course is delivered as part of the South Yorkshire Institute of Technology (SYIoT).  
[<https://www.barnsley.ac.uk/syiot/>]

## Course Content

A Technician will understand

- 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

### Core Skills:

A Technician will apply their knowledge of plant and systems to safely perform maintenance and operational activities with minimum supervision. This will require them to:

- 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
- 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

### Core Units

- Health & Safety – follows health & 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 and/or with appropriate supervision
- Quality focused – ensures that work achieves quality standard both occupationally and personally
- Working with others – works well with people from different disciplines, backgrounds and expertise to accomplish an activity safely and on time
- Interpersonal skills – gets along well with others and takes into account their needs and concerns
- Critical reasoning – uses resources, techniques and obtained facts to develop sound solutions while recognising and defining problems
- Sustainability and ethical behaviour – behaves ethically and undertakes work in a way that

contributes to sustainable development

- 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

For further information regarding this apprenticeship standard, please visit the Institute for Apprenticeships website. [<https://www.instituteforapprenticeships.org/apprenticeship-standards/maintenance-and-operations-engineering-technician/>]



## How will I be assessed?

You will be assessed by your assessor using a portfolio of evidence, practical demonstrations and assignments. You will be assessed both in College and in your place of work.

## What Equipment Will I Need?

You will be required to provide paper, writing materials, A4 ring binder file, extra wide dividers and clear plastic wallets.

## Where will I study?

You will study within the workplace and attend classes at Barnsley College's STEM Centre.

## What can I do next?

This standard will meet the professional standards of the Engineering Council for registration as Engineering Technician (Eng Tech) by an appropriate Professional Engineering Institution.

## How much does the course cost?

There is no cost to being an apprentice. All costs associated with your apprenticeship, including the cost of training and your salary, will be paid by your employer.

## Financial support

You may be eligible for assistance with expenses such as travel, books, equipment and childcare. For further information please contact the Student Services Team on +44 (0)1226 216 267.

## Extra information

### Contact the Apprenticeship Team

For further information please contact the team on 01226 216166 or email: [apprenticeships@barnsley.ac.uk](mailto:apprenticeships@barnsley.ac.uk) [<mailto:apprenticeships@barnsley.ac.uk>]

## Want to join Barnsley Sports Academy and the Sports Village?

Barnsley College has a range of sports opportunities for all students to take part in, gain professional training and compete nationally and internationally. We also have a state-of-the-art fitness village, Honeywell Sports Village [<https://www.barnsley.ac.uk/shops-services/honeywell-sports-village/>] where students can make use of our fitness suite, spinning studio and classes for competitive rates. You don't have to be studying sport to get involved in the Sports Academy [<https://www.barnsley.ac.uk/our-departments/sport/sports-academy/>] .

## Additional Learning Support

Our Additional Learning Support team can provide you with the support you need. Please contact them on +44 (0)1226 216 769.

## Disclaimer

Please note we reserve the right to change details without notice. We apologise for any inconvenience this may cause.

**Last updated:** 13th March 2024

### Want to apply?

Visit <https://www.barnsley.ac.uk/apply> to get started  
Call us on **01226 216 123**