

## Maintenance and Operations Engineering Apprenticeship Level 3

Study Mode: Full Time Programme Component | Course Level: 3

### Is this course right for me?

Maintenance & Operations Engineering 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.

### Entry Requirements

Entry requirement for this apprenticeship will be decided by the employer, however a minimum of a Grade C/4 is required in Maths prior to enrolment.

### What will I learn?

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 Behaviours

- 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

## What skills will I gain?

Knowledge and understanding of first principles relating to the operation and maintenance of appropriate plant and equipment, and relevant industry health and safety standards, regulations, and environmental and regulatory requirements. The apprentice will also learn about maintenance and operational practices, processes and procedures covering a range of plant and equipment, and the relevant engineering theories and principles relative to their occupation.

Through real-life experiences, the apprentice will build specific knowledge, skills and behaviours (KSBs) and learn how to:

- locate, and rectify faults on plant and equipment
- understand and interpret information and work in compliance with technical specifications
- prepare work areas to undertake work related activities and reinstate those areas after the completion
- inspect and maintain appropriate plant and equipment to meet operational requirements
- assess and test the performance and condition of plant and equipment

Summary

## Delivery

**Location:** Work-based & College

**Start Date:** 02/09/2024

**Day:**

**Time:**

**Course Fee:**

**Course Code:** X0017

**Study Mode:** Full Time Programme Component

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