

ENGINEERING OPERATIVE

Engineering Operatives are predominantly involved in engineering operations which are key to the success of the Manufacturing and Engineering sector allowing employers to grow their business while developing a work force with the relevant skills and knowledge to enhance the sustain the sector.

The role covers a wide range of common and job specific skills sets that can be transferred across the manufacturing engineering industry sectors during their careers.

Course Overview

An Engineering Operative must have the core requirements below and demonstrate the specialist requirements in ONE job specific role.

Core Knowledge:

- How to obtain the necessary job instructions, engineering drawings and specifications and how to interpret them
- Relevant statutory, quality, environmental compliance procedures/systems, organisational and health and safety regulations relating to engineering operations
- Their individual roles and responsibilities within the organisation and the flexibility required to support the achievement of company targets
- Engineering operational practices, processes and procedures
- Potential problems that can occur within the engineering operations and how they can be avoided

Course code
AS2 Eng Op

Award on successful completion
Apprenticeship Standard
Engineering Operative
Level 2

Study type
Day Release

Block Release for Maths
& English if required

Level
2

Start date
October

Duration
18 months

Fees
£6000 (16-18 years old = fully funded by government. 19+ years old 5% (£300) employer contribution to training)

Location
Worcester or Bromsgrove campus

Core Skills:

- Work safely at all times, complying with health and safety legislation, regulations, environmental compliance procedures and systems and other relevant guidelines
- Identify and deal appropriately with any risks, hazards, hazardous situations and problems that may occur within the engineering environment within the limits of their responsibility
- Demonstrate effective communication skills which include oral, written, electronic
- Complete appropriate documentation accurately, efficiently and legibly using the correct terminology where required
- Obtain and follow the correct documentation, specifications and work instructions in accordance with time constraints and the roles and responsibilities identified for the engineering activities, extracting the necessary data/information from specification and related documentation
- Select and use appropriate tools, equipment and materials to carry out the engineering operation
- Deal appropriately with any problems that may occur within the manufacturing environment within the limits of their responsibility
- Work efficiently and effectively at all times maintaining workplace organisation and minimising waste

Specialist job roles

In addition to the core knowledge and skills, all Engineering Operatives must complete ONE of the following job role options:

Option 1 - Maintenance Operative: Engineering Operatives working within a maintenance role (this role can cover either mechanical, electrical, electronic or fluid power work or a combination of them) will have:

Knowledge of:

- Maintenance planning
- Diagnostic and fault finding techniques
- Specific safe working practices, maintenance procedures and environmental regulations that need to be observed

Skills:

- Carryout fault location on appropriate equipment using suitable maintenance diagnostic techniques
- Carryout maintenance activities in line with work instructions
- Carryout tests on the maintained equipment in accordance with test schedule/defined test procedures
- Follow appropriate completion activities and restore equipment to service by replacing or repairing components

Option 2 - Mechanical Engineering Operative: Engineering Operatives working within a mechanical manufacturing engineering role will have:

Knowledge of:

- Specific equipment operating parameters
- Mechanical manufacturing techniques
- Specific quality specifications for mechanical manufacturing operations

Skills:

- Plan the mechanical manufacturing operation before they start
- Mount and set the required work holding devices
- Produce individual components, sub-assemblies or completed assemblies using mechanical manufacturing techniques
- Carryout quality checks during and after mechanical manufacturing operations

Entry requirements

Maths & English GCSE Grade 3 or above are required for this apprenticeship.

Methods of assessment

Practical Observation

The Practical Observation will be carried out at the apprentice's place of work or an in-centre practical and last approximately 2 hours.

Apprentices will be observed and will be assessed against both the core and their chosen specific job role option knowledge, skills and behaviours as identified within the standard. Typically, this will be covered within one task but may be covered over two separate tasks if required with questions and answers throughout.

Professional discussion

40 minutes professional discussion based on your portfolio of evidence which is developed over the duration of the apprenticeship.

The purpose of the professional discussion is to:

- Demonstrate the apprentice can apply the broad range of knowledge, skills and behaviours in the Standard
- Clarify any questions the independent assessor has from their review of the reflective portfolio submitted
- Explore aspects of the apprentice's work, including how it was carried out, in more detail