

ENGINEERING OPERATIVE ST0537 STANDARD

Duration: Usually 18 months **Max Funding:** £6000

Entry requirements:

There are no formal entry requirements, although candidates would normally be expected to demonstrate some practical aptitude.

Apprentices without level 1 English and Maths will need to achieve this level and take the test for level 2 prior to taking their apprenticeship end point assessment.

How we deliver

depends on the program chosen, at Lincoln normally one day per week at Lincoln College for the duration. If the employer prefers, candidates can attend Gainsborough for four days per week for a year, where extra units are delivered to meet the needs of local employers, both programs contribute towards the mandated 20% Off-The-Job Training required. Programmes will include workshop practice, theory sessions, work based assignments, industry visits and onsite mentoring facilitated by our dedicated engineering team.

Standard Overview

Engineering Operatives are key to the success of the Manufacturing and Engineering sector allowing employers to grow their business while developing a workforce 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 the course of their careers. Dependent on the sector that they are employed in there may be subtle differences in terms of composition and application of the job role specific skills and knowledge they will require, however the core skills and knowledge will be the same regardless of the sector/area they work in.

They will work individually or as part of a team to carry out a range of engineering operations which could include: ensuring machines and equipment used are maintained and serviceable; dealing with breakdowns; restoring components and systems to serviceable condition by repair and replacement; operating a variety of machines (CNC or Conventional); assembling and repairing machine and press tools, dies, jigs, fixtures and other tools; fabrication/installation of a wide variety of other sheet fabrications and equipment; fabrication and assembly of metal parts joining techniques; preparing materials and equipment for engineering processes; providing technical support including communications software, test

tools, performance, capacity planning, and e-commerce technology as required.

Examples of the occupational roles from across the engineering and manufacturing sector that would be covered within this standard are: Servicing and Maintenance Operative; Machine Setter/Operative; Mechanical Engineering Operative; Fabricator; Engineering Fitter; Multi-disciplined Engineering Operative; Materials, Processing and Finishing Operative; Technical Support Operative and Founding/Casting Operative.

END POINT ASSESSMENT



On completion of the on-programme learning, the apprentice will undertake an End Point Assessment to confirm competency of knowledge, skills and behaviours embedded within this standard. This can only take place when all three parties; employer, provider and apprentice, confirm candidate readiness at a gateway meeting. The end point assessment is independent and can be carried out at a designated assessment centre or the employer's premises. The process comprises of a practical skills observation and a professional discussion, prior to this the apprentice's e-portfolio will have been reviewed. The purpose is to confirm that the apprentice is fully competent and can work safely as an Engineering Operative.

Qualifications

Level 2 Diploma in Engineering Operations (Skills)

Level 2 Certificate or Diploma in Engineering Operations (Knowledge)

The unit selection within these qualifications is tailored to the candidate's specific job role and can be found at Annex A. These units will develop Knowledge, Skills and Behaviours in addition to those core KSB detailed below.

An Engineering Operative will understand and demonstrate knowledge of:

- 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

An Engineering Operative will have the Skills to:

- 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 and 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

An Engineering Operative will demonstrate the following behaviours:

Manufacturing and Engineering organisations require their apprentices to have a set of behaviours that will ensure success both in their role and in the overall company objectives. The required behaviours are:

- Personal responsibility and resilience – Comply with the health and safety guidance and procedures, be disciplined and have a responsible approach to risk, work diligently regardless of how much they are being supervised, accept responsibility for managing time and workload and stay motivated and committed when facing challenges.
- Work effectively in teams – Integrate with the team, support other people, consider implications of their own actions on other people and the business whilst working effectively to get the task completed.
- Effective communication and interpersonal skills – An open and honest communicator, communicate clearly using appropriate methods, listen well to others and have a positive and respectful attitude.
- Focus on quality and problem solving – Follow instructions and guidance, demonstrate attention to detail, follow a logical approach to problem solving and seek opportunities to improve quality, speed and efficiency.
- Continuous personal development – Reflect on skills, knowledge and behaviours and seek opportunities to develop, adapt to different situations, environments or technologies and have a positive attitude to feedback and advice.

