

## Purpose Statement

### Name of Regulated Qualification

(including level and qualification accreditation number)

**QAN: 501/0659/4**

**Pearson Edexcel Level 2 NVQ Diploma in Performing Manufacturing Operations (QCF)**

### Overview

This qualification is designed to principally to prepare learners who are interested in a career in the Manufacturing sector and mainly intending to progress to employment within the sector. They have chosen this qualification as it has been identified as an appropriate entry point into the manufacturing sector for specific job roles or to meet the needs of the current job role they are undertaking within the sector that will enable them to progress within the organisation.

This qualification is designed for the Manufacturing sector and is aimed at learners who either work or wish to work in this sector. The qualification 601/2547/0 Pearson Edexcel Level 2 NVQ Diploma in Performing Engineering Operations is designed for learners who are employed or wish to work within an Engineering environment. Whilst the mandatory units of both qualifications are the same, the optional units reflect the different skills and knowledge required to work in the individual sectors. The Performing Engineering Operations qualification focuses on developing hand fitting and machining skills along with the fundamental engineering knowledge of electrical and electronic circuits and devices and mechanical properties of materials. The focus of the Performing Manufacturing Operations is outlined below.

The qualification takes a practical and applied approach to learning about manufacturing, and is designed so that it can be built upon further modules of learning for the learner who wishes to progress into employment in the sector and ultimately progress within the sector. It has three mandatory units, and then learners select an additional two optional units from a choice of four relating to the sector specialist areas, which allows for a broad knowledge and skills base.

All learners taking this qualification will study:

#### *Complying with statutory regulations and organisational safety requirements*

This unit covers the skills and knowledge needed to prove the competences required to deal with statutory regulations and organisational safety requirements. It does not deal with specific safety regulations or detailed requirements, it does, however, cover the more general health and safety requirements that apply to working in an industrial environment.

The learner will be expected to comply with all relevant regulations that apply to their area of work, as well as their general responsibilities as defined in the Health and Safety at Work Act. The learner will need to be able to identify the relevant qualified first aiders and know the location of the first aid facilities. The learner will have a knowledge and understanding of the procedures to be adopted in the case of accidents involving injury and in situations where there are dangerous occurrences or hazardous malfunctions of equipment, processes or machinery. The learner will also need to be fully conversant with their organisation's procedures for fire alerts and the evacuation of premises.

The learner will also be required to identify the hazards and risks that are associated with their job. Typically, these will focus on their working environment, the tools and equipment that they use, the materials and substances that they use, any working practices that do not follow

laidown procedures, and manual lifting and carrying techniques.

#### *Promoting effective working relationships*

This unit covers the skills and knowledge needed to prove the competences required to develop and maintain internal and external working relationships.

The learner will be required to promote working relationships with a range of people such as colleagues in their own group, people in other work groups, supervisors and managers and external contacts. They will be expected to deal with any disagreements in an amicable and constructive way. They will also be expected to contribute to work activities by providing ideas and solutions and to find ways of resolving issues that cause concern and/or disagreement.

#### *Contribute to team working*

This unit covers the skills and knowledge needed to prove the competences required to work effectively as a team member within a manufacturing environment.

The learner will be required to establish and maintain productive working relationships and deal with disagreements in an amicable and constructive way. They will also be expected to contribute to team activities by providing ideas and solutions and to find ways of resolving issues that cause concern and/or disagreement. As part of their team activities they will need to keep others informed about work plans or activities that affect them.

The mandatory units ensure that the learner will gain the appropriate understanding and skills expected in a level 2 manufacturing qualification of this size as defined by employers, and be useful for progression to additional job roles or to further and higher qualifications in this sector.

The learner then selects a minimum of 4 optional units from the group available. These units represent the breadth and range of specialist focus within the manufacturing sector, so provide a secure basis for progression either into an area of greater manufacturing specialism or into a general engineering route. Units include receiving and checking incoming materials, controlling manufacturing operations, producing products (shaped, joined and formed) and carrying out testing and inspections activities.

Job roles that relate to this qualification that learners may be employed in upon completion include

- Assembly Fitter, these individuals are employed in an assembly role manufacturing components to be used in final assembly or within the final assembly of a product
- Manufacturing Production Assistant, these individuals are employed within the manufacturing environment and may have responsibility for packing and processing of orders, maintaining quality standards and ensuring that stock levels remain constant to ensure high levels of productivity

Although this qualification is part of the Intermediate Apprenticeship for Improving Operational Performance (Pathway 2 – Performing Manufacturing Operations), some learners may need or wish to take the qualification on its own, for example, learners who work on a part-time or voluntary basis or those who are not yet employed in the industry but wish to develop their knowledge, understanding and skills in preparation for working as a manufacturing operative or assembly fitter. This qualification, although it is competency based, is also available to those studying in a simulated or classroom environment, making it ideal for individuals who are seeking work in this area and wish to have an appropriate, relevant and skills based qualification that employers recognise.

**WHAT COULD THIS QUALIFICATION LEAD TO?**

The Pearson Edexcel Level 2 NVQ Diploma in Performing Manufacturing Operations (QCF) can lead to employment within the sector as either an Assembly Fitter or a Manufacturing Production Assistant or via a period of further study (which can include Advanced Apprenticeships) to progress to job roles within the sector which can include Manufacturing Controller, Manufacturing Team/Cell leader or Supervisor or a specialist operator such as an Electrical Manufacturing Operator where you are responsible for advanced manufacturing operations with electrical and electronic goods.

Potential progression routes for further study include:

- Pearson BTEC Level 3 National Diploma in Engineering
- Pearson BTEC Level 3 National Extended Diploma in Engineering
- Level 3 Advanced Apprenticeship in Engineering

**WHO SUPPORTS THIS QUALIFICATION?**

This qualification is valued by the employers listed below as enabling learners to develop and demonstrate the manufacturing industry required skills and knowledge to progress within the workforce and to further education as required.

- Brightstar 20:20 Mobile
- NAC Group
- NSK
- Hoshizaki Europe Ltd
- Heraeus

**FURTHER INFORMATION**

Engineering is a dynamic sector which offers huge potential for learners. Engineering turnover was £1.1 trillion in the year ending March 2012, a rise of 3.5%. Engineering now accounts for 24.5% of the turnover of all enterprises in the UK. The UK is currently regarded as a world leader in engineering sectors including renewable energy, space, low carbon, aerospace, creative industries, utilities, automotive, agri-food and bioscience. Between 2010 and 2020 engineering enterprises are projected to have 2.74 million job openings, including over 400,000 technician roles where the predominantly ageing workforce is expected to retire over the next 10 years.