



Industrial Applications - Performing Engineering Operations – Level 2

Apprenticeship Learning Programme

Organisation Responsible: SEMTA – The Sector Skills Council for Science, Engineering and Manufacturing Technologies

Apprenticeship framework requirements:

NVQ: <i>Awarding Body: EAL</i>	Performing Engineering Operations Level 2
VRQ: <i>Awarding Body: EAL</i>	Intermediate Certificate in Engineering and Technology
Key Skills <i>Awarding body: EAL</i>	Application of Number Level 1 Communication Level 1
Employment Responsibilities and Rights:	ERR is covered in the Induction.

Certification: On completion of the above programme the Learner will receive a nationally recognised Certificate for each of the above disciplines.

Apprenticeship:

Apprenticeships are nationally designed training programmes for those who have already left full time education or are already in employment. They provide a combination of on and off-the-job training whilst being paid.

They are intended to provide an integrated programme of learning leading to the acquisition and application of the skills, knowledge and understanding required by employers.

The completion of an Apprenticeship framework shows both current and potential employers that the holder has achieved competence in the skills covered by the Apprenticeship, has demonstrated the knowledge required by the Apprenticeship and has attained the level of transferable skills required by all Apprenticeships.

NVQ:

National Vocational Qualifications (NVQ's) are qualifications that reflect the skills, knowledge and understanding of individuals 'specific areas of work' – in this case Performing Engineering Operations. They are expressed in terms of competences and are assessed in the workplace.

This qualification covers the fundamentals common to all engineering practices, including health



and safety requirements and communicating engineering information, whilst offering extensive choice and flexibility for learners to demonstrate competence in one or more of a broad variety of engineering activities. The pathway structure also caters for those providing technical support, including project planning, contributing to business improvement, using CAD and software packages, and carrying out selected engineering applications.

To achieve the NVQ you will complete the three mandatory units and select, with the help of your assessor, either one from Group 'A' and two from Group 'B' or three from Group 'B'

Mandatory Units

- PEO2 / 001 - Working safely in an engineering environment
- PEO2 / 002 - Working efficiently and effectively in engineering
- PEO2 / 003 - Using and communicating technical information

Optional Units

- Group A

- PEO2 / 004 - Producing mechanical engineering drawings using a CAD system
- PEO2 / 032 - Producing electrical or electronic engineering drawings using a CAD system
- PEO2 / 061 - Producing CAD models (drawings) using a CAD system

- Group B

There are 55 units to choose from in Group B including:

- PEO2 / 006 - Producing mechanical assemblies
- PEO2 / 034 - Forming and assembling electrical cable enclosure and support systems
- PEO2 / 036 - Assembling and testing electronic circuits
- PEO2 / 053 - Finishing surfaces by applying treatments

VRQ:

This intermediate certificate is a Vocationally Related Qualification (VRQ) and focuses on performance using practical skills, knowledge and understanding. This ensures that on completion the learner has gained practical experience has some expectation for situations that they could face in a job role within the engineering sector. This VRQ is a recognised Technical Certificate.

To achieve the EAL VRQ the learner is required to complete the 3 common mandatory units, followed by the required number of units from their choice of pathway (A, B, C, D or E). The assessor will advise on the best route during the induction / initial assessment period.

Mandatory Units

- ETI / 001 - Engineering Environment Awareness
- ETI / 002 - Engineering Techniques
- ETI / 003 - Engineering Principles

Pathway A - Electrical/Electronic

Pathway B - Fabrication and Welding

Pathway C - Maintenance

Pathway D - Mechanical

Pathway E - Multi-Skill

Key Skills:

Mandatory

- Communication Level 1
- Application of Number Level 1

Optional (not required for the framework but will give additional certificates)

- Working with Others Level 2
- Improving own Learning and Performance Level 2

