601/5709/4 - ETCAL Level 2 NVQ Diploma in Engineering Technical Support (QCF)

1 Introduction to the Qualification

1.1 Who is the qualification for?

- This qualification has been designed to cover those learners who are:
  - employed but require additional engineering competencies as part of an existing job role or to enable career progression.

1.2 Learner entry requirements

There are no formal entry requirements for learners undertaking this qualification. However, centres must ensure that learners have the potential and opportunity to gain the qualification successfully.

1.3 Age restrictions

This qualification is not approved for use by learners under the age of 16, and ETA cannot accept any registrations for learners in this age group.

1.4 What does the qualification cover?

- Mandatory units cover those areas which have a common approach such as organisational safety requirements, team working and using technical information
- There are 3 optional pathways, Engineering Drawing, Inspection and Testing and Technical Services offering a choice of units applicable to individual workplaces and working environments

2 Qualification Structure

Learners must achieve a minimum of 51 credits to gain the qualification. 15 credits must be achieved by completing the 3 mandatory units and the remaining credits can be achieved by completing the unit requirements from the selected pathway.

Mandatory Units – all units must be completed

Ofqual code	Unit Title	Level	CV	GLH
A/601/5013	Complying with Statutory Regulations and Organisational Safety Requirements	2	5	35
Y/601/5102	Using and Interpreting Engineering Data and Documentation	2	5	25
Y/601/5052	Carrying Out Engineering Activities Efficiently and Effectively	2	5	25

Engineering Drawing Optional Pathway – 1 unit must be selected from the following.				
Ofqual code	**Unit Title**	**Level**	**CV**	**GLH**
F/600/5678	Producing/Modifying Mechanical or Fabrication Engineering Drawings using a CAD System	2	48	174
K/600/5691	Producing/Modifying Electrical or Electronic Engineering Drawings using a CAD System	2	48	174
J/600/5696	Producing/Modifying Engineering Services or Fluid Power Drawings using a CAD System	2	48	174
J/600/5701	Producing/Modifying Engineering CAD Models (Drawings) using a CAD System	2	48	174
Inspection and Testing Optional Pathway – 1 unit must be selected from the following.				
K/600/5707	Checking Mechanical Components and Assemblies	2	55	167
J/600/5715	Checking Components using Co-ordinate Measuring Machines (CMM)	2	55	167
D/600/5722	Checking and Testing Electrical Products	2	55	174
F/600/5728	Checking and Testing Electronic Products	2	55	174
F/600/5731	Checking Fabricated Components and Structures	2	55	167
K/600/5738	Checking Engineering Products using Penetrant Flaw Detection Methods	2	55	167
M/600/5742	Checking Engineering Products using Magnetic Particle Testing Methods	2	55	167
Technical Services Optional Pathway – 2 units must be selected from the following.				
Y/600/5749	Assisting in Producing or Modifying Operating Programs for Computer Controlled Machines	2	19	72
D/600/5753	Assisting in the Planning of Engineering Activities	2	19	72
M/600/5756	Assisting in Producing Technical Information for Engineering Activities	2	19	72
A/600/5761	Assisting in the Monitoring of Engineering Activities	2	18	65

L/600/5764	Assisting in Obtaining Resources for Engineering Activities	2	18	65
H/600/5768	Issuing and Controlling Materials for Engineering Activities	2	18	65
H/600/5771	Assisting in Providing Technical Sales and Marketing Support for Engineering Activities	2	19	72
M/600/5773	Assisting in the Scheduling of Engineering Activities	2	18	65
L/600/5778	Assisting in Determining Engineering Requirements for the Supply of Products or Services	2	18	65
Y/600/5783	Assisting in Carrying Out Condition Monitoring of Engineering Plant and Equipment	2	19	72
M/600/5787	Assisting in Implementing Engineering Activities	2	18	65
A/600/5792	Developing and Maintaining Effective Customer Relationships	2	18	65

2.1 Unit requirements are available as a separate document

2.2 Unit Endorsement

These units are endorsed by the Sector Skills Council for Science, Engineering and Manufacturing Technologies (SEMTA).

3 Centre & Qualification Approval

Centres wishing to offer the qualification will need to gain ETA's approval to do so. Current ETA centres can do this via Quartz Web. For non ETA Centres to gain approval to run the qualification please provide your details via **http://quartz.etawards/quartz-system.com** and the ETA team will start the process of approval.

4 Resource Requirements

4.1 Assessors

Assessment must be carried out by competent assessors who hold, or are working towards, a current assessor qualification. They will be expected to regularly review their skills, knowledge and understanding and, where applicable, undertake continuing professional development to ensure that they are carrying out workplace assessment to the most up to date national occupational standards.

Assessors must be able to demonstrate that they have relevant and sufficient technical competence to evaluate and judge performance and knowledge evidence of this qualification, the units being taken and the associated assessment criteria. This will be demonstrated either by holding a relevant technical qualification or by proven experience in the learner's industry. The assessor's competence must, at the very least, be at the same level as that required of the learner in the assessment so that they are able to demonstrate the skills needed.

4.2 Internal Quality Assurance Advisors

Internal quality assurance (IQA) must be carried out by competent quality assurers who should hold or be working towards, a current internal quality assurance qualification. They will be expected to regularly review their skills, knowledge and understanding and, where applicable, undertake continuing professional development to ensure that they are carrying out workplace assessment to the most up to date national occupational standards.

Persons carrying out the role of internal quality assurance will also be expected to be fully conversant with the ETA requirements for IQA in centres. These are detailed in the centre manual.

IQAAs must be able to demonstrate that they have relevant and sufficient technical competence to understand performance and knowledge evidence of this qualification, the units being taken and the associated assessment criteria. This will be demonstrated either by holding a relevant technical qualification or by proven experience in the learner's industry.

The IQAA's competence must be sufficient to recognise what constitutes acceptable performance, knowledge and understanding as required by this qualification.

4.3 External Quality Assurance Advisors

ETA will appoint an appropriately qualified person to provide advice and guidance to the centre team and act as their external quality assurance advisor (EQAA).

External quality assurance (EQA) must be carried out by competent quality assurers who should hold, or be working towards, a current external quality assurance qualification. They will be expected to regularly review their skills, knowledge and understanding and where applicable undertake continuing professional development to ensure that they are carrying out workplace assessment to the most up to date national occupational standards.

EQAAs must be able to demonstrate that they have relevant and sufficient technical competence to recognise performance and knowledge evidence of this qualification as required by the units being taken and the associated assessment criteria.

4.4 Assessment environment

The evidence of a learner's competence, knowledge and understanding for this qualification can only be regarded as valid, reliable, sufficient and authentic if demonstrated in a real working environment.