



# Level 2 NVO Diploma in Engineering Technical Support

# ENGINEERING

## Qualification Specification

### Overview

This level 2 qualification is a NVO. It involves the skills and knowledge needed for occupations in Engineering Technical Support including engineering drawing, inspection and testing and technical services.

### Typical Job

CAD Draughtsperson, Quality Control Inspector, Technical Support Person

Qualification code:	501/0372/6
Level:	2
Total qualification time:	510 Hours
Guided learning hours:	215
Credits:	51
Minimum age	16



## Purpose of the qualification

The primary purpose of this qualification is to confirm occupational competence in a specific job role. The achievement of NVQs will encourage an employee to value their contribution to the workplace, and it will develop skills and potential within the field of Engineering Technical Support.

The qualification has 3 pathways linked to typical job roles:

- Engineering Drawing
- Inspection and Testing
- Technical Services.

It is for:

- Individuals who need recognition of their competence in one or more of a variety of engineering technical support activities and also need a nationally recognised qualification at level two.
- Learner's undertaking Semta apprenticeship frameworks.

## What could this qualification lead to?

On completion of this qualification it can form part of an apprenticeship framework at Level 3, providing a base for other level 3 qualifications, and progression to a range of Level 4 qualifications and also career progression.

## Who supports this qualification?

This qualification is supported by The Society of Operations Engineers (SOE).

## Entry Requirements

Learners must have the potential to achieve the assessment criteria set out in the units.

## How is the qualification achieved?

The learner must present evidence (portfolio) which clearly shows they have met the assessment criteria and learning outcomes. The learner must achieve the mandatory and optional units relevant to their pathway (occupational role).

## What will be assessed?

All evidence submitted by the learner against the assessment criteria.

## How will it be assessed?

The qualification is assessed by:

- holistic assessment
- portfolio of evidence
- verbal questioning
- witness testimony
- knowledge and understanding.

Performance evidence must be the main form of evidence gathered. In order to demonstrate consistent competent performance for a unit. It is recommended that where possible evidence is gathered holistically and that the assessment evidence for the mandatory units is gathered during the performance of the optional units. Evidence should be obtained as a whole, where practically possible, since competent performance in the optional assessment routes is often dependent on competence in the mandatory assessment routes.

## Structure

This qualification can be obtained by following either one of the following pathways. The learner is required to complete the mandatory assessment routes, and may also be able to choose from a selection of optional assessment routes.

### Pathway TSA: Engineering Drawing

#### Mandatory assessment routes: All assessment routes must be completed:

EAL code	Assessment route title	Level	Credit value	Guided learning hours	Ofqual code
QETS2/001	Complying with Statutory Regulations and Organisational Safety Requirements	2	5	35	A/601/5013
QETS2/002	Using and Interpreting Engineering Data and Documents	2	5	25	Y/601/5102
QETS2/003	Working Efficiently and Effectively in Engineering	2	5	25	Y/601/5052

#### Optional assessment routes: One of the following assessment routes must be taken:

QETS2/004	Producing/Modifying Mechanical or Fabrication Engineering Drawings using a CAD System	2	48	174	F/600/5678
QETS2/005	Producing/Modifying Electrical or Electronic Engineering Drawings using a CAD System	2	48	174	K/600/5691
QETS2/006	Producing/Modifying Engineering Services or Fluid Power Drawings using a CAD System	2	48	174	J/600/5696
QETS2/007	Producing/Modifying Engineering CAD Models (Drawings) using a CAD System	2	48	174	J/600/5701

## 4 Pathway TSB: Inspection and Testing

### Mandatory assessment routes: All assessment routes must be completed:

EAL code	Assessment route title	Level	Credit value	Guided learning hours	Ofqual code
QETS2/001	Complying with Statutory Regulations and Organisational Safety Requirements	2	5	35	A/601/5013
QETS2/002	Using and Interpreting Engineering Data and Documents	2	5	25	Y/601/5102
QETS2/003	Working Efficiently and Effectively in Engineering	2	5	25	Y/601/5052

### Optional assessment routes: One of the following assessment routes must be taken:

QETS2/008	Checking Mechanical Components and Assemblies	2	55	167	K/600/5707
QETS2/009	Checking Components using Co-ordinate Measuring Machines (CMM)	2	55	167	J/600/5715
QETS2/010	Checking and Testing Electrical Products	2	55	174	D/600/5722
QETS2/011	Checking and Testing Electronic Products	2	55	174	F/600/5728
QETS2/012	Checking Fabricated Components and Structures	2	55	167	F/600/5731
QETS2/013	Checking Engineering Products using Penetrant Flaw Detection Methods	2	55	167	K/600/5738
QETS2/014	Checking Engineering Products using Magnetic Particle Testing Methods	2	55	167	M/600/5742

## Pathway TSC: Technical Services

### Mandatory assessment routes: All assessment routes must be completed:

EAL code	Assessment route title	Level	Credit value	Guided learning hours	Ofqual code
QETS2/001	Complying with Statutory Regulations and Organisational Safety Requirements	2	5	35	A/601/5013
QETS2/002	Using and Interpreting Engineering Data and Documents	2	5	25	Y/601/5102
QETS2/003	Working Efficiently and Effectively in Engineering	2	5	25	Y/601/5052

### Optional assessment routes: Two of the following assessment routes must be taken:

QETS2/015	Assisting in Producing or Modifying Operating Programs for Computer Controlled Machines	2	19	72	Y/600/5749
QETS2/016	Assisting in the Planning of Engineering Activities	2	19	72	D/600/5753
QETS2/017	Assisting in Producing Technical Information for Engineering Activities	2	19	72	M/600/5756
QETS2/018	Assisting in the Monitoring of Engineering Activities	2	18	65	A/600/5761
QETS2/019	Assisting in Obtaining Resources for Engineering Activities	2	18	65	L/600/5764
QETS2/020	Issuing and Controlling Materials for Engineering Activities	2	18	65	H/600/5768
QETS2/021	Assisting in Providing Technical Sales and Marketing Support for Engineering Activities	2	19	72	H/600/5771
QETS2/022	Assisting in the Scheduling of Engineering Activities	2	18	65	M/600/5773
QETS2/023	Assisting in Determining Engineering Requirements for the Supply of Products or Services	2	18	65	L/600/5778
QETS2/024	Assisting in Carrying Out Condition Monitoring of Engineering Plant and Equipment	2	19	72	Y/600/5783
QETS2/025	Assisting in Implementing Engineering Activities	2	18	65	M/600/5787
QETS2/026	Developing and Maintaining Effective Customer Relationships	2	18	65	A/600/5792

