



# Level 2 Certificate and Level 2 Diploma in **Mechanical Engineering Technology (QCF)**

# ENGINEERING

## Qualification Specification

### Overview

These qualifications cover the intermediate knowledge and understanding of the principles, methods and technology involved in mechanical engineering.

### Typical Job

Trained operator/semi-skilled roles in the assembly, operation or maintenance of equipment for automotive, aerospace, marine, industrial manufactured products and processes.

Qualification codes: 501/1004/4 (Certificate)  
501/0979/0 (Diploma)

Level: 2

Total qualification time: TBC

Guided learning hours: 230 (Certificate), 330 (Diploma)

Credits: 25 (Certificate), 39 (Diploma)

Age range: Pre-16, 16-18, 19+

Issue 1.0

## Purpose of the qualifications

The qualifications cover the intermediate knowledge and understanding of the principles, methods and technology involved in mechanical engineering. The choice of qualification size means:

- the learning programme can be tailored to learners' and employers' needs the Certificate can be delivered as a short course or evening class
- the Diploma will help learners meet the knowledge requirements of the Semta Apprenticeship in Engineering Manufacture.

The qualifications share three mandatory units covering engineering principles, techniques and environment awareness. The Certificate requires learners to complete one optional unit while the Diploma requires three optional units from a wide choice.

They are suitable for:

- apprentices working towards a level 2 Apprenticeship (Diploma only)
- workers looking to achieve trained operator/semi-skilled status in mechanical engineering.

## What could it lead to?

A career in the engineering sector, further study and an apprenticeship.

## Entry Requirements

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

## How are the qualifications achieved?

This qualification will be achieved when the learner has successfully completed the common mandatory units followed by the required number of optional units.

## What will be assessed?

All evidence submitted by the learner against the assessment criteria.

## How is it assessed?

The mandatory units are assessed externally in a 1 hour onscreen exam. Internal assessments test practical skills and knowledge of the optional units.

## Structures

EAL Level 2 Certificate in Mechanical Engineering and Technology (QCF)

Qualification Code: 501/1004/4

The learner is required to complete the three mandatory units plus one optional unit from Group A.

Qualification Credit Value: 25

Qualification GLH (Guided Learning Hours): 230

### Mandatory Units

| EAL Code | Unit Title                        | Level | Credit Value | GLH | Ofqual Code |
|----------|-----------------------------------|-------|--------------|-----|-------------|
| QETI/001 | Engineering environment awareness | 2     | 6            | 60  | D/600/1847  |
| QETI/002 | Engineering techniques            | 2     | 6            | 60  | H/600/1848  |
| QETI/003 | Engineering principles            | 2     | 6            | 60  | K/600/1852  |

Plus one unit from Group A.

### Group A

| EAL Code | Unit Title                                    | Level | Credit Value | GLH | Ofqual Code |
|----------|---|-------|--------------|-----|-------------|
| QETI/016 | Engineering materials processes               | 2     | 7            | 50  | L/600/1875  |
| QETI/017 | Fitting and assembly techniques               | 2     | 7            | 50  | R/600/1876  |
| QETI/018 | Turning and milling techniques and technology | 2     | 7            | 50  | Y/600/1877  |
| QETI/019 | Turning techniques                            | 2     | 7            | 50  | H/600/1879  |
| QETI/020 | Milling techniques                            | 2     | 7            | 50  | L/600/1889  |
| QETI/021 | Grinding techniques                           | 2     | 7            | 50  | L/600/1892  |
| QETI/034 | Understanding Computer Aided Drawing (CAD)    | 2     | 7            | 50  | A/600/2374  |

# EAL Level 2 Diploma in Mechanical Engineering and Technology (QCF)

Qualification Code: 501/0979/0

The learner is required to complete the three mandatory units plus the unit in Group A and two optional units from Group B.

Qualification Credit Value: 39

Qualification GLH (Guided Learning Hours): 330

## Mandatory Units

| EAL Code | Unit Title                        | Level | Credit Value | GLH | Ofqual Code |
|----------|-----------------------------------|-------|--------------|-----|-------------|
| QETI/001 | Engineering environment awareness | 2     | 6            | 60  | D/600/1847  |
| QETI/002 | Engineering techniques            | 2     | 6            | 60  | H/600/1848  |
| QETI/003 | Engineering principles            | 2     | 6            | 60  | K/600/1852  |

Plus one unit from Group A.

## Group A

| EAL Code | Unit Title                      | Level | Credit Value | GLH | Ofqual Code |
|----------|---------------------------------|-------|--------------|-----|-------------|
| QETI/016 | Engineering materials processes | 2     | 7            | 50  | L/600/1875  |

Plus two units from Group B.

## Group B

| EAL Code | Unit Title                                    | Level | Credit Value | GLH | Ofqual Code |
|----------|---|-------|--------------|-----|-------------|
| QETI/017 | Fitting and assembly techniques               | 2     | 7            | 50  | R/600/1876  |
| QETI/018 | Turning and milling techniques and technology | 2     | 7            | 50  | Y/600/1877  |
| QETI/019 | Turning techniques                            | 2     | 7            | 50  | H/600/1879  |
| QETI/020 | Milling techniques                            | 2     | 7            | 50  | L/600/1889  |
| QETI/021 | Grinding techniques                           | 2     | 7            | 50  | L/600/1892  |
| QETI/034 | Understanding Computer Aided Drawing (CAD)    | 2     | 7            | 50  | A/600/2374  |

