



Level 2 Certificate and Level 2 Diploma in **Fabrication and Welding Engineering Technology (QCF)**

ENGINEERING

Qualification Specification

Overview

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

Typical Job

Fabricator and welder of thick plate, thin plate and sheet metal, covering manufacturing and assembly from car assembly to marine shipbuilding and production of heavy equipment.

Qualification codes: 501/1076/7 (Certificate)
501/1058/5 (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 fabrication and welding.

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 fabrication and welding 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 Fabrication and Welding Engineering Technology (QCF) 501/1076/7

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

Mandatory Units: *All units must be completed:*

EAL Code	Unit Title	Level	Credit	Guided Learning Hours	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

Optional Units: *Select one of the following units:*

QETI/007	Fabrication and welding principles	2	7	50	D/600/1864
QETI/008	Manual welding techniques	2	7	50	H/600/1865
QETI/009	Producing components from metal plate	2	7	50	K/600/1866
QETI/010	Producing components from sheet metal	2	7	50	M/600/1867
QETI/011	Non-fusion thermal joining methods	2	7	50	T/600/1868
QETI/012	Thermal cutting techniques	2	7	50	A/600/1869
QETI/034	Understanding Computer Aided Drawing (CAD)	2	7	50	A/600/2374

EAL Level 2 Diploma in Fabrication and Welding Engineering Technology (QCF) 501/1058/5

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

Mandatory Units: *All units must be completed:*

EAL Code	Unit Title	Level	Credit	Guided Learning Hours	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

Pathway Mandatory Unit: *Must be completed:*

QETI/007	Fabrication and Welding Principles	2	7	50	D/600/1864
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Optional Units: *Select two of the following units:*

QETI/008	Manual welding techniques	2	7	50	H/600/1865
QETI/009	Producing components from metal plate	2	7	50	K/600/1866
QETI/010	Producing components from sheet metal	2	7	50	M/600/1867
QETI/011	Non-fusion thermal joining methods	2	7	50	T/600/1868
QETI/012	Thermal cutting techniques	2	7	50	A/600/1869
QETI/034	Understanding Computer Aided Drawing (CAD)	2	7	50	A/600/2374

