



Weldability **sif**

Level 1 Diploma in INTRODUCTORY WELDING, BRAZING, SOLDERING AND CUTTING SKILLS

Qualification Specification

Overview

This qualification has been developed to provide a broad based introduction to the practices and processes within welding. It also supports the development of personal skills and attributes that learners need in order to develop confidence in their ability to work, learn and achieve their full potential.

Typical job

Welder, Fabricator Welder, Pipe Fitter Welder

Qualification code:	601/4112/8
Level:	1
Credit value:	42
Guided learning hours:	Min 360 - Max 360
Minimum learning age:	16

Issue 2.0

Purpose of qualification

The EAL Level 1 Diploma in Introductory Welding, Brazing, Soldering and Cutting Skills is a Vocational Related Qualification (VRQ). The content and structure of the qualification has been developed to provide a broad based introduction to the practices and processes within welding, brazing, soldering and thermal cutting. It also supports the development of personal skills and attributes that learners need in order to develop confidence in their ability to work, learn and achieve their full potential.

The content and structure of the qualification have been developed to provide a broad based introduction to the practices and processes within welding, brazing, soldering and thermal cutting techniques. It also supports the development of personal skills and attributes that learners need in order to develop confidence in their ability to work, learn and achieve their full potential. Learners can progress to EAL's level 2 welding VRQ qualifications to further develop the skills they have learned at level 1.

What does this qualification cover?

This qualification comprises six core mandatory units. These include:

- Tungsten Inert Gas Welding
- Metal Inert Gas Welding
- Manual Metal Arc Welding
- Oxy-Acetylene Welding
- Brazing and Soldering
- Thermal Cutting Techniques

Who is this qualification for?

This qualification is for learners who:

- want to start a career in welding engineering
- are thinking about welding as a career but who would like some experience of the job role first
- are new to welding
- work in another aspect of welding engineering and require some practical training.

It is suitable for learners aged:

- 16-18
- 19+

Who supports this qualification?

This qualification has been developed in close consultation with colleges, training associations and industry to ensure that the qualification meets the needs of the engineering and education sectors. This qualification is:

- Accredited by Ofqual at Level 1 on Qualifications & Credit Framework (QCF)
- Endorsed by a number of post-16 providers
- Endorsed by Weldability SiF.

What could this qualification lead to?

Typical job roles include:

Welder, Fabricator Welder, Pipe Fitter Welder

This qualification relates to:

- EAL L1 Certificate in Performing Engineering Operations (QCF)
- EAL L1 Certificate in Arc Welding (QCF)
- EAL L2 Certificate in Positional Welding (QCF)
- EAL L3 Award in Pipe Welding (QCF)
- EAL L2 Diploma in Performing Engineering Operations (QCF)
- EAL L2 & L3 NVQ in Fabrication And Welding Engineering
- EAL L2 Diploma in Fabrication and Welding Engineering Technology (QCF)
- EAL L3 Diploma in Fabrication and Welding Engineering Technology (QCF)

Entry requirements

Learners must be at least 16 years old. There are no formal entry requirements for this qualification. However, learners must have the potential to achieve all aspects of the qualification. In particular, learners should be able to demonstrate that they have the minimum levels of literacy and numeracy required to comply with the health and safety aspects of the scheme, the completion of the learning outcomes, and the assessments.

How is the qualification achieved?

This qualification is gained when all the necessary units have been achieved. The centre will then be able to apply for the learner's certificate. The learner will also receive a certificate of unit credit, listing all the units they have achieved.

However, if they don't manage to complete the full qualification, learners can still claim a certificate of unit credit for the units achieved. Therefore, they still have proof of their ability and could complete the qualification at a later date.

What will be assessed?

- Assessment methods within this qualification include Centre marked practical and theory assessments, which have been designed to assess the knowledge, understanding and skills of learners for individual units.
- The internal assessment for each unit is set by EAL and marked by members of the delivery team at the Centre.
- All assessment decisions are then subject to internal and external quality assurance.
- All learning outcomes of the qualification must be assessed. In order to help meet this requirement it is advised that learners should produce a logbook/portfolio where they can file and make reference to evidence that shows their achievements against the learning outcomes.
- Centres should also maintain an assessment and feedback record for each learner, which details the evidence evaluated against the learning outcome and the feedback given to the learner. These records must be available to the External Quality Assurer.

Structure

This qualification has six mandatory units (42 credits, 360 GLHs, 420 TQT)

NOTE: GLH = Guided learning Hours, TQT = Total Qualification Time.

ALL mandatory units must be achieved:

Unit	Unit title	Credit	GLH	Ofqual Code
QIWS1-001	Tungsten Inert Gas Welding	7	60	M/501/9419
QIWS1-002	Metal Inert Gas Welding	7	60	H/501/9420
QIWS1-003	Manual Metal Arc Welding	7	60	H/501/9417
QIWS1-004	Oxy-Acetylene Welding	7	60	K/501/9418
QIWS1-005	Brazing and Soldering	7	60	L/504/0696
QIWS1-006	Thermal Cutting Techniques	7	60	D/504/0699

How will it be assessed?

- Internal assessments involve collecting and evaluating evidence that demonstrates achievement of the learning outcomes in each unit.
- The internal assessments are accompanied by marking criteria, checklists and other materials to ensure that the delivery team is consistent in their approach to internal assessments across learners.
- The internal assessments and the accompanying marking/assessment criteria can be found in the individual units within the Delivery Pack and Learner Pack.
- Centres are responsible for ensuring that internal assessment is suitably controlled to ensure that assessment decisions are valid and reliable, and that work submitted for assessment by learners is prepared and produced by them independently, without assistance from others, and free of plagiarism.
- Where the assessment takes the form of written/short answer or multiple choice question papers, these should be treated as controlled assessments therefore imposing the necessary restrictions on the learner, as necessary. Guidance sheets have also been created to hand out to the learners, to ensure they are aware how to complete the multiple choice and short answer questions papers, where appropriate.