

ETCAL Level 1 Certificate of Introduction to Welding
603/4456/8
Assessment

Entering Work Suite - Assessment Principles

Introduction

ETA qualifications are developed in conjunction with the industries and employers they service. They are designed to add value and deliver multidimensional outputs that provide impact for both learners and employers.

It is therefore important that the assessment requirements of ETA qualifications are robust whilst not containing unnecessary and over-burdensome challenges that detract from the intended outcomes and impact. These assessment principles are prepared with that in mind and are applicable to the *Entering Work Suite* of qualifications detailed below:

Level 1 Certificate - Securing Employment

Level 1 Certification - Introduction to Construction Level 1 Certificate – Introduction to Lean Techniques Level 2 Certificate - Preparation for Military Service

Principles

There are four key principles to underpin assessment delivery:

1. Assessment should contribute to developing a learners' knowledge and/or skills and provide relevant and current development the related industry requires.
2. Systems for capturing evidence of competence should be integrated and efficient. Assessment practices for both competence-based and knowledge- based aspects of qualifications should, where possible, be integrated with industry driven standards and requirements.
3. Assessment methods must be appropriate for the level and nature of the qualification units to be assessed. Methods of assessing achievement against learning outcomes and assessment principles must be accommodating and flexible, whilst remaining appropriate for both the level being assessed and industry expectations of learners at that level.

4. Evidence of knowledge and understanding must be recorded and be clearly attributable to the learner. This can be delivered using task based activity with questions and answer sessions, supported by assessor observation.

The choice and application of assessment methods must be consistent with these principles and will generally include:

- Direct Observation
- Written evidence (portfolio/workbook)
- Centre set assignment
- Centre set coursework
- Oral examination
- Professional/open discussion

Delivery Team Requirements

Tutors / Assessors

- Tutors / Assessors should have a detailed knowledge of, and be competent in, the occupational requirements of the units
- Tutors / Assessors should hold or be working towards the related professional qualifications for delivery and assessment as required
- This competence will have been acquired either in direct employment in the occupational role to which the unit relates, or in employment as a manager, supervisor or in-house trainer of employees carrying out the role
- It is unlikely that occupational competence will have been achieved in less than twelve months of employment but individuals with less experience could be considered as assessors if sufficiently occupationally competent

Internal Quality Assurers (IQAs)

- IQAs must have a thorough understanding of the structure, content and occupational requirements of the units that they are internally quality assuring. This understanding will have been acquired while either working directly within or delivering within the relevant occupational area in either an operational or a support function
- The level of understanding must be sufficient to allow the IQA to judge whether the assessor has fully assessed learners against all the principles within the unit
- It is unlikely that a person could have gained this level of understanding in less than twelve months of being employed but individuals with less experience could be considered as IQAs if they have the required level of experience, knowledge and understanding

Technical / Expert Witness

Expert witnesses can be drawn from a wide range of people who can observe, 'measure and examine performance against the industry and qualification principles. These can include line managers and experienced individuals within a related sector-based organisation. The Technical Expert Witnesses should have proven practical experience and knowledge relating to the content of the principles being assessed.

It is unlikely that someone could become an expert in their entire job role in less than twelve months of being employed in their industry. They could, however, very quickly become an expert in the content of a single unit if this was the focus of their job role. The assessor should make a judgement as to the level of expertise held by a potential Technical Expert Witness and, where necessary, this should be confirmed with the awarding organisation.

Assessment Materials

ETC Awards Ltd. (ETA) Assessment Materials are protected by copyright and are supplied only to Approved Centres for use solely for the purpose of the assessment of ETA learners.

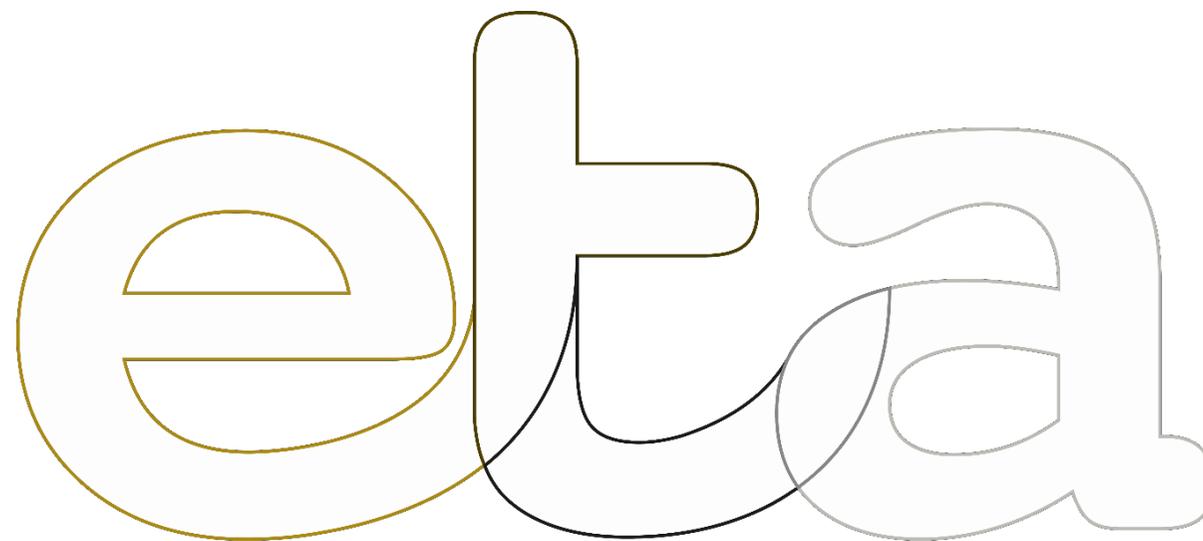
Instructions for Conducting Assessment

The Approved Centre must either:

- Secure approval of in-house assessment material by ETA's External Quality Assurance team prior to use
- Use ETA Assessment Materials
- We recognise that reasonable adjustments may be considered at the time of assessment, please refer to the ETA Reasonable adjustments and considerations policy

All approved centres must then handle and store securely all Assessment Materials in accordance with the following:

- Assessment Material must be accessible to learners only during their programme
- The Approved Centre must not make public in any format the contents of any materials either in part or in full.
- Materials must be securely handled and under no circumstances shared with third party organisations or individuals
- The Approved Centre must seek permission from ETA through the External Quality Assurance team if they want to convert Material for alternative storage, retrieval and delivery in electronic formats.

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Level 1 Unit – Understanding the industry

Unit aim

This unit introduces learners to the various job roles and the skills required for employment in the learner's particular sector. The unit will enable learners to produce a personal career plan for their chosen sector.

Unit introduction

Learners will develop an understanding of the skills required to work within their chosen sector, related skills, the skills required to work sustainably, and the transferable skills valued by employers, for example, having the right attitude and demonstrating appropriate behaviour in line with the legal and ethical issues. Learners will produce an outline career plan that will help them to make decisions on career choices, they will also reflect on the effect of these choices on their lifestyle.

Assessment

To achieve this unit, the learner needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit through a variety of assessment methods appropriate to the delivery environment.

Unit Reference Number		M/617/1565
Qualification Framework		RQF
Title		Understanding the Industry
Unit Level		Level 1
Guided Learning Hours		30 GLH
Total Qualification Time		30 TQT
Unit Credit Value		3 Credits
Unit Grading Structure		Pass / Fail

	Learning Outcome		Assessment Criteria - The learner can	Criteria expansion
1	Understand the identified industry / sector	1.1	Describe potential levels and job roles within a chosen industry / sector	This must include examples of both levels and roles
		1.2	Describe types of business that offer employment opportunities within it	This must include at least three examples
2	Understand the different types of career opportunities available in the sector	2.1	Identify the possible status of job roles within a chosen sector	This must include full time, part time, contracted and agency
		2.2	Identify the common skills required for employment within a chosen sector	A minimum of three skills must be identified
		2.3	Evaluate these requirements against personal circumstances	
		2.4	Describe different types of career progression opportunities	

3	Know about different types of organisations offering career opportunities	3.1	Describe different types of organisations that offer career opportunities in terms of their size and the nature of the work they undertake	This must include at least three examples
4	Understand how career choices can impact upon an individual's lifestyle	4.1	Explain how an individual's lifestyle may be influenced by the career choices they make	
		4.2	Describe how realistic career choices can be made that support individuals circumstances	
5	Be able to work in a sustainable manner within the chosen sector Be able to seek and respond to guidance when working as part of a team	5.1	Describe the behaviours required to work in a sustainable manner	This must include at least three positive and three negative behaviours
		5.2	Work effectively as a team member	
6	Be able to make informed career choices	6.1	Produce an outline career objective	
		6.2	Explain the opportunities to progress their career	

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Level 1 Unit – Health and Safety

Unit aim

This unit introduces learners to health and safety in a workplace relating to themselves and others. It aims to develop learners' awareness of potential hazards to which they may be exposed, how to identify and assess risk, along with how risks may be managed and controlled.

Unit introduction

This unit develops learners understanding of health and safety considerations in the workplace. The unit also develops learner understanding of the causes of accidents and hazards in the workplace. They will know how to identify risk and competently undertake risk assessments. Learners will also develop the skills to suggest measures to minimise the identified risk.

Assessment

To achieve this unit, the learner needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit through a variety of assessment methods appropriate to the delivery environment.

Unit Reference Number		K/617/1564
Qualification Framework		RQF
Title		Health and Safety
Unit Level		Level 1
Guided Learning Hours		40 GLH
Total Qualification Time		40 TQT
Unit Credit Value		4 Credits
Unit Grading Structure		Pass / Fail

	Learning Outcome		Assessment Criteria - The learner can	Criteria expansion
1	Understand the responsibilities for health and safety at work	1.1	Describe the responsibilities in a working environment	This should include, employer, others and self
		1.2	State the importance of reporting accidents and near misses	
		1.3	Understand a typical accident reporting procedure	
		1.4	State who is responsible for making accident reports.	
		1.5	Identify safety and warning signs	
2	Understand the causes of accidents at work	2.1	Describe the causes of accidents in the workplace	This should include at least four potential accidents in the chosen work area
		2.2	Associate potential causes of accidents at work	List one possible reason for each the above causes
		2.3	Describe the safety triangle and its importance	
3	Be able to identify and select personal protective equipment (PPE) required to complete task in the workplace	3.1	Identify the correct PPE for tasks within the workplace	This must include at least four items of PPE

		3.2	Examine PPE to confirm its integrity for continued use	
		3.3	Explain the reasons why the identified PPE is required	
4	Know the importance of working safely at height in the workplace	4.1	Define the term “working at height”	List at least four examples of working at height
		4.2	State the employee’s responsibility under current legislation and official guidance whilst working at height	
		4.3	List hazards/ risks in the workplace associated with working at height	
		4.4	State how hazards/ risks associated with working at height can be controlled	
		4.5	State the regulation that controls the use of suitable equipment for working at height	
5	Know the principles of risk assessment and their importance to health and safety at work	5.1	State the purpose of Risk Assessments and Method Statements	
		5.2	Be able to read, understand and follow a risk assessment	
		5.3	State the legal requirements for Risk Assessments and Method Statements	
		5.4	State common causes of work-related fatalities and injuries	
		5.5	State the implications of not preventing accidents and ill health at work	
6	Understand causes of fire and when fire extinguishers should be used	6.1	List the major causes of fires in the workplace	This must include the fire triangle
		6.2	Identify the different types of fire extinguishers	

		6.3	Describe when the different types of fire extinguisher should be used and by whom	
7	Know the potential risks to health of substances in the working environment	7.1	List the main points of the Control of Substances Hazardous to Health (COSHH) Regulations and why is it important to correctly store them	
		7.2	List possible substances hazardous to health under current legislation.	This must include at least four substances
		7.3	List common risks to health that these substances could affect	
		7.4	State the type of hazards/ risks that may occur in the workplace linked with the use of drugs and alcohol	
		7.5	State the important of hygiene at work both the environment and personal	



Level 1 Unit – Basic Welding Techniques

Unit aim

This unit introduces learners to the knowledge and basic skills required to understand and apply simple welding techniques.

Unit introduction

The unit is designed to enable learners to demonstrate welding skills typically found in industry and associated underpinning knowledge to a level that will enable them to complete welded joints in simple welding positions and prepare them for undertaking other qualifications at level 1 and progressing to related qualifications at level 2.

Assessment

To achieve this unit, the learner needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit through a variety of assessment methods appropriate to the delivery environment.

Unit Reference Number		Y/617/5853
Qualification Framework		RQF
Title		Basic Welding Techniques
Unit Level		Level 1
Guided Learning Hours		60
Total Qualification Time		60
Unit Credit Value		6
Unit Grading Structure		Pass / Fail

	Learning Outcome		Assessment Criteria - The learner can	Criteria expansion
1	Understand and be able to produce beads on plate in the flat position	1.1	Describe how to produce beads on a flat plate	This should include: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		1.2	Use a welding technique safely to produce beads on a plate in simple welding positions	Using any one of these methods: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		1.3	Check the joints are aligned and welds are sound	Visual check
		1.4	Identify any defects in the weld	List as appropriate
2	Understand and be able to produce a lap fillet weld in the horizontal position	2.1	Describe how to produce a lap fillet weld in the horizontal position	This should include: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		2.2	Use a welding technique to safely produce a lap fillet weld in simple welding positions	Using any one of these methods: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		2.3	Check joints and welds are sound	Visual check
		2.4	Identify defects in the weld	List as appropriate

3	Understand and be able to produce a tee fillet weld in the flat and horizontal position	3.1	Describe how to produce a tee fillet weld in the flat position	This should include: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		3.2	Describe how to produce a tee fillet weld in the horizontal position	This should include: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		3.3	Use a welding technique to safely produce a tee fillet weld in simple welding positions	Using any one of these methods: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		3.4	Check joints and welds are sound	Visual check
		3.5	Identify defects in the weld	List as appropriate
4	Understand and be able to produce a corner weld in the flat position	4.1	Describe how to produce a corner weld in the flat position	This should include: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		4.2	Use a welding technique to safely produce a corner weld in simple welding positions	Using any one of these methods: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		4.3	Check joints and welds are sound	Visual check
		4.4	Identify defects in the weld	List as appropriate
5	Understand any specific health & safety requirements for a welding environment	5.1	List health and safety hazards associated with a variety of welding techniques	This should include: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		5.2	List the effects of exposure to the electric arc	At least two effects must be identified
		5.3	List the types of fire extinguisher which may be used in a welding environment	At least two types must be identified

4	Understand and be able to produce a corner weld in the flat position	4.1	Describe how to produce a corner weld in the flat position	This should include: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		4.2	Use a welding technique to safely produce a corner weld in simple welding positions	Using any one of these methods: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		4.3	Check joints and welds are sound	Visual check
		4.4	Identify defects in the weld	List as appropriate
5	Understand any specific health & safety requirements for a welding environment	5.1	List health and safety hazards associated with a variety of welding techniques	This should include: <ul style="list-style-type: none"> • Manual Metal Arc Welding Techniques (MMA) • MIG Welding • TIG Welding
		5.2	List the effects of exposure to the electric arc	At least two effects must be identified
		5.3	List the types of fire extinguisher which may be used in a welding environment	At least two types must be identified
		5.4	Describe to the effects from exposure to welding fumes	
		5.5	List the personal protective equipment (PPE) and clothing appropriate to MMA welding	At least three types must be identified