

WHAT SKILLS DO WELDERS NEED?

Welding is a skill that is used in many industries and is especially important in Engineering Construction. Welders join plates of various metal compositions using heat causing the metals to flow together and become permanently joined.

ECITB HAVE TWO OPTIONS AVAILABLE TO TRAIN WELDER LEARNERS –

Option 1 Off the job training in an approved training centre using Off-the-Job Training Units and then returning to site for work experience using the On the Job Performance Units.

Option 2 You deliver on the job training at your site using On-the-Job Training Units and On-the-Job Performance Units to gain work experience.

OFF-THE-JOB TRAINING UNITS

CO1	Contribute to effective working relationships
CO2	Work safely, minimize and comply with emergency procedures
CO3	Identify and deal with hazards in the work environment
W1	Prepare work areas for welding activities
W2	Prepare materials required for welding activities
W3	Prepare equipment for welding activities
W4	Reinstate the work area after completing welding activities
W5	Store and control resources during welding
W6	Obtain and interpret welding specifications

Plus a minimum of 3 of the following optional units

Optional Units

Material	Process(es)				
	TIG	TIG root MMA fill	MMA	MIG/MAG	FCAW
Carbon & Low Alloy	W27	W31	W40	W38	W35
Stainless	W28	W34	W42	W39	W26
Nickel Alloys	W30	W32	W33	W36	W41
Aluminium Alloys	W29			W37	

OR

W43 Back gouge welded units

AND MAY INCLUDE ONE WELDING UNIT FROM WELDING PIPE N/SVQ (W9 TO W24)

ECITB recommend that a new Welder learner in the Off the Job Training Centre undertake CO 1, 2, 3, W 1, 2, 3, 4, 5, 6 units plus a minimum of 3 of the following optional units.

ON-THE-JOB TRAINING AND PERFORMANCE UNITS

TIG 01-04	TIG 05-08	TIG 19-22	TIG 23-26	MIG 01-04	MIG 05-08	MIG 19-22	MIG 23-26	FCAW 01-04
FCAW 05-08	FCAW 09-12	MMA 01-04	MMA 05-08	MMA 29-32	MMA 37-40	MMA 41-44	BGWJ 01-03	

The On-the-Job Units are shown overleaf mapped against the N/SVQ Units to outline which On-the-Job Units can contribute in the achievement of the Welder (Plate) N/SVQ Level 3.

FUNDING DETAILS (ECITB financial assistance to levy paying companies)

The following grants are available for learners who have not yet attained craft status (N/SVQ Level 3):

N/SVQ completion grant	£8,000
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EXISTING CRAFTSPERSONS

Any of the On-the-Job Performance units may be used for skill enhancement of existing craftspersons. Under such circumstances a grant of £200 per unit will be paid for up to any 5 satisfactorily completed units.

ON-THE-JOB PERFORMANCE UNITS WELDING (PLATE) UNITS TO SHOW WHICH WELDING UNITS CAN CONTRIBUTE EVIDENCE TO SUPPORT THE N/SVQ IN WELDING (PLATE)

N/SVQ Welding (Plate) Unit	1	2	3	4	5	6	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
TECSkills On-the-Job Unit																								
TIG 01-04 Butt Welds in Carbon and Low Alloy Steel plate	✓	✓	✓	✓	✓	✓		✓																
TIG 05-08 Butt Welds in Stainless Steel plate	✓	✓	✓	✓	✓	✓			✓															
TIG 19-22 Butt Welds in Aluminium Alloy plate	✓	✓	✓	✓	✓	✓				✓														
TIG 23-26 Butt Welds in Nickel and Nickel Alloy plate	✓	✓	✓	✓	✓	✓					✓													
MIG 01-04 Butt Welds in Carbon and low Alloy Steel plate	✓	✓	✓	✓	✓	✓													✓					
MIG 05-08 Butt Welds in Stainless Steel plate	✓	✓	✓	✓	✓	✓														✓				
MIG 19-22 Butt Welds in Nickel and Nickel Alloy plate	✓	✓	✓	✓	✓	✓											✓							
MIG 23-26 Butt Welds in Aluminium and Aluminium Alloy plate	✓	✓	✓	✓	✓	✓												✓						
FCAW 01-04 Butt Welds in Carbon and Low Alloy Steel plate	✓	✓	✓	✓	✓	✓										✓								
FCAW 05-08 Butt Welds in Stainless Steel plate	✓	✓	✓	✓	✓	✓	✓																	
FCAW 09-12 Butt Welds in Nickel and Nickel Alloy plate	✓	✓	✓	✓	✓	✓																	✓	
MMA 01-04 Butt Welds in Carbon and Low Alloy Steel plate	✓	✓	✓	✓	✓	✓															✓			
MMA 05-08 Butt Welds in Stainless Steel plate	✓	✓	✓	✓	✓	✓																		✓
MMA 29-32 Butt Welds in Nickel and Nickel Alloy plate	✓	✓	✓	✓	✓	✓								✓										
MMA 37-40 Butt Welds with TIG Root in Carbon and Low Alloy Steel plate	✓	✓	✓	✓	✓	✓		✓				✓												
MMA 41-44 Butt Welds with TIG Root in Nickel and Nickel alloy plate	✓	✓	✓	✓	✓	✓							✓	✓										
BGWJ 01-03 Prepare Welded joints for Repair	✓	✓	✓	✓	✓	✓																		✓

Common Units CO1, CO2 and CO3 only have Off-the-Job Units, which are mandatory units for the N/SVQ Welding (Plate) Level 3.

NVQ Level Requirements is made up of 12 NVQ Units (9 Mandatory Units and 3 Technical Option Units)

Mandatory Units CO1, 2, 3, W 1, 2, 3, 4, 5, 6,

Technical Option Units The learner must achieve **THREE** units. In total the learner must select units, which cover a minimum of **TWO** welding processes.