

# 6 Month Intensive Welding & Fabrication Course



## Course Overview

### Who is the course for?

This course is designed for those who have an interest in joining the construction, welding or fabrication industries. You will study the basic principles of welding & fabrication technology and acquire and develop practical skills in different types of welding techniques and processes within our specialist and fully equipped welding workshop. You will also developing fabrication skills using a wide variety of hand and power tools, and stationary power equipment, such as press break, shear and rolls.

This course meets industry's demand for multi-skilled individuals, the programme lays a solid foundation with a focus on welding processes.

Designed for both those with with no experience at all this course will provide you with a recognized qualification and the skills to progress within the welding, fabrication and construction industries.

### What will I study on the course?

As far as possible the course is practically based and as an engineering student you will cover both the theory and practice of welding and fabrication, covering the following units;

- Working effectively and safely in an engineering environment
- Engineering principles and practice
- Principles of Welding and Fabrication
- Arc and Gas welding
- Metal Inert Gas welding (MIG)
- Tungsten Inert Gas welding (TIG)

### What makes this course special?

You will be taught in our dedicated welding and fabrication workshop, using high quality, industry standard welding and fabrication equipment. The course is designed to be highly practical with integrated practical tasks and HSSE courses.

### Further Information

If you would like to receive further information about these courses or any of WAZP Groups services please email to [courses@wazp-gr.com](mailto:courses@wazp-gr.com) or contact any of our regional offices



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### How will I be assessed?

Assessment of the course is a combination of practical assessment and written exams. For each unit or group of units there is one exam and one practical task. You do not need any specific qualifications to start this course, however any experience in the field of engineering, welding or fabrication would be a benefit.

### How long is the course?

This course is taken over a 6 month period



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Wazp Training & Competence offers the following courses in the field of WELDING & FABRICATION

MONTH	WEEK	DAY	<b>WELDING &amp; FABRICATION</b>			
			<b>6 Month Programme</b>			
			<b>Course Title</b>	<b>Course Code</b>	<b>Description</b>	
1	1	1	Induction	IND	Programmes, facilities, welding programme orientation and general safety awareness (IND)	
		2	<b>HSE1</b>	<b>HSE1</b>	<b>HSE 1 - Golden rules, Hazard identification, Risk Assessment, STOP (HSE 1)</b>	
		3				
		4				
		5				
		6	Welding Safety	W-WORK	Welding safety guidelines and safe working practices	
	2	7	Tools and equipment used in welding	W-HAND	Identification, safe use and storage of welding equipment and tools including SMAW - equipment and setup	
		9			GMAW & FCAW - equipment and setup	
		11			GTAW - equipment and setup	
		12	Fabrication Hand and Power Tools	F-HAND	Identification, safe use and storage of fabrication equipment and tools. Includes equipment setup	
		3	13	Power Tools	F-PT	Stationary power equipment, such as press break, shear and rolls.
	15					
	16		Fabrication Processes	F-PRO	Overview of the different fabrication processes	
	17		Fabrication Skills	F-SKILL	Demonstration of fabrication techniques	
	18					
	4	19	Plant Equipment Project - Workshop	W-PRACT1	Equipment setup system	
		20				
		21				
		22				
		23	Basic Materials used in welding	W-MET	Identification of Materials	
		24			Shielded Metal Arc Electrodes	
		25			Filler Rad Materials	
	2	5	Blueprint Reading	W-DRAW	Physical Characteristics and Mechanical Properties of Metals	
					26	Welding Symbols
					27	Reading Welding Detail Drawings
					28	reading and interpreting fabrication drawings
					29	
		6	Sheet metalwork (3 mm or less)	F-SHL3	Instruction of forming 3mm or less sheet metal	
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2	7	37	Oxy-Acetylene Cutting	W-OXY	Oxyfuel Cutting						
		38			HSE2	HSE2	Plasma Arc Cutting				
		39					HSE 2 - First Aid Basics, Lifting and Slings Awareness, COSHH and Hazardous Materials Awareness, Confined Space Entry Awareness, Hearing Conservation Awareness, Gas Testing Awareness and Firefighting Awareness				
		40									
	41										
	42										
	8	43	Oxy Cutting Project Workshop Practical-2	W-PRACT2	Plates and Pipes Cutting Project						
		44									
45											
46											
3	9	47	Oxy-Acetylene Pre-Heating	W-PRE	Pre heating and Post heating of Metals						
		49				SMAW - Welding-1	W-SMAW1	SMAW - Beads and Fillet Welds			
		50							HSE3	HSE3	HSE 3 - Electrical Safety Fundamentals, Energy Isolation LOTO, Environment Waste Management and Permit to Work Basics
		51									
	52										
	53										
	10	54	Plate worker (3 mm upwards)	F-SHM3	Forming instruction on 3mm metal plate						
		55									
		56									
		57									
	11	60	SMAW - Welding-1	W-SMAW1	SMAW - Groove Welds and Backing						
						Welding Project-1	W-PROJ1	Plate Welding Project			
SMAW - Welding-2									W-SMAW2	SMAW - Open V-Groove Welds	
										SMAW - Open V-Groove Welds	
		Welding Project-2	W-PROJ2	Pipe Welding Project							
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4	13	73	Pipework Fabrication	F-PIPE	Techniques to bend and cut pipework
		74			
		75	GMAW - Welding	W-GMAW	GMAW - Plate
	76	GMAW - Pipe			
	77	Welding Project-3	W-PRJ3	Plate and Pipe Welding Project	
	78				
	79				
	14	81	Structural steelwork	F-STUT	Cutting and forming structural steelwork
		82			
		83			
		84			
	15	85	FCAW - Welding	W-FCAW	FCAW - Plate
		86			FCAW - Pipe
		87	Welding Project-4	W-PRJ4	Plate and Pipe Welding Project
		88			
		89			
		90			
	91				
92					
16	93	Welding Project-4	W-PRJ4	Plate and Pipe Welding Project	
	94				
	95				
	96				
17	97	GTAW Welding-1	W-GTAW1	GTAW - Plate GTAW - Carbon Steel Pipe	
	98				
	99				
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	101				
5	18	Welding Project-5	W-PRJ5	Stainless Steel Plate and Pipe upto 2" Welding Project	
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	107				
108					



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5	19	109	HSE4	HSE4	HSE 4 - MME, Working at Heights, H2S Awareness, Breathing Apparatus Basics, N2 and NORM			
		110						
		111						
		112						
		113						
	20	114	Welding Project-5	W-PRJ5	Stainless Steel Plate and Pipe upto 2" Welding Project			
		115						
		116						
		117						
		118						
6	21	119	GTAW Welding-2	W-GTAW2	GTAW - Low Alloy and Stainless Steel Pipe SMAW - Stainless Steel Groove Welds			
		120						
		121						
		122						
		123						
	22	124	Welding Project 6	W-PRJ6	Stainless Steel Plate and Pipe upto 2" Welding Project			
		125						
		126						
		127				Arc Cutting and Gouging	W-GOUG	Air Carbon Arc cutting
		128						Gouging
129								
130								
131								
23	132	Gouging Project Workshop Practice-3	W-PRACT3	Arc Cutting and Gouging of Weld Metal				
	133							
	134							
	135							
	136							
24	137	Welding Inspection	W-INS	Weld Quality				
	138							
	139							
	140				Inspection Project Workshop Practice-5	W-PRACT5	Quality of Plate and Pipe welding Project	
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144								



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