



İstanbul  
**GEDİK University**

# UNDERWATER WELDER TRAINING PROGRAM



**T.C İSTANBUL GEDİK ÜNİVERSİTESİ**  
**SU ALTI TEKNOLOJİSİ PROGRAMI**

#### Contact Information

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## UNDERWATER WELDER TRAINING PROGRAM

### INTRODUCTION

Underwater industrial systems and structures require underwater assembly and repair operations where wet welding process is necessary to be utilised. The wet welding operation is not easy and can only be conducted by skilled divers who are trained as underwater welders.

This 5 Days course aims to educate and train the professional diver to be a skilled underwater welder to conduct underwater cutting and welding operations.

### CERTIFICATION

The course will be conducted according to both AWS D3.6 and EN ISO 15618-1 international standards. IMCA and ADC accept education and training of both standards.

### WHO SHOULD PARTICIPATE

Professional divers, industrial divers and divers having Class 2 certificates from harbour authorities can participate to this course.

Candidates should submit their certificates, CV, diver documents, health certificates (obtained within the last three months, clearly exhibits “no obstacle for diving”).

### COURSE FEE

The course fee is 4.500 USD per participant for 5 days of education and training. This fee includes; all education and training documents, all needed special cutting and welding electrodes and metallic materials. The successful participants will receive both International Certificate and Istanbul Gedik University Underwater Welder Certificate.

## UNDERWATER CUTTING AND WELDING EDUCATION AND TRAINING PROGRAM

	DAYS	SUBJECTS	TEORETICAL	PRACTICAL
ONE WEEK	Day 1 Morning	Underwater cutting / welding theory	4	-
	Day 1 Afternoon	Underwater cutting / welding theory	3	-
	Day 2 Morning	Underwater welding application, (metallic arc welding)*	-	3
	Day 2 Afternoon	Underwater welding application (metallic arc welding)	-	4
	Day 3 Morning	Underwater welding application (metallic arc welding)	-	3
	Day 3 Afternoon	Underwater welding application (metallic arc welding)	-	4
	Day 4 Morning	Underwater welding application (metallic arc welding)	-	3
	Day 4 Afternoon	Underwater welding application (metallic arc welding)	-	4
	Day 5 Morning	Underwater cutting with metallic arc technique)	-	3
	Day 5 Afternoon	Exam and Evaluation	-	4

\* If this program takes place in Istanbul, Istanbul Gedik University, Pendik Marine diving facilities will be used.

Participants should submit valid health report with photograph and diver certificate.

Education, training and exams will be conducted by using surface support system under monitoring. International Certificates will be according to EN ISO 15618-1 - AWS D3.6 for successful participants. If participant fails the exam, he /she can repeat the exam.

MODULE 1: Underwater cutting / welding theory (One Day)

MODULE 2: Underwater cutting / welding application (Four Day In Sea\*)

**NOTE:** If the course takes place outside of the Turkey, diving, practical training and safety conditions of the location need to be examined together with host organisation. The decision for course fee and other issues will be decided separately.



### MODULE-1 SUBJECT

- Explanation of underwater welding methods
- Explanation of underwater cutting methods
- Introduction of materials used in underwater welding and cutting
- Explanation of safety rules to be followed during welding and cutting

### MODULE-2 SUBJECT

- Utilize and maintain surface supplied diving equipment
- Implement emergency procedures for surface supplied diving
- Undertake underwater deployment in a surface supplied diving operation
- Understand surface cutting and welding procedures
- Underwater cutting and welding application





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