

# Underwater Wet Welder Training Courses

## Course Outline

This highly specialized training programme is designed for professional divers, serious about obtaining high quality SMAW skills, for both dry and underwater use. The course is designed for commercial divers to meet the requirements outlined in BSEN 15618-1 : 2002 'Qualification testing of welders for underwater welding' and or AWS D3.6-99, 'Spesifiacion for Underwater Welding'.

## Content

An intensive two week, closely supervised, training programme, which provides both theoretical and practical hands-on experience for both dry and underwater welding. The course consists of a series of lectures, together with written and practical assignments and ultimately, culminates in an end of course examination and practical welder qualification. The paractical exercises concentrate on developing the basic techniques necessary to produce sounds welds both above and below the waterline. This being achieved through the use of a number of well planned and proven training exercises. The formal lectures are designed to introduce you to the subject of welding in for more detail and are as outlined below.

- Safe Underwater welding
- Introduction to SMAW/MMA plant & equipment
- Underwater welding techniques
- Preparing to weld
- Electrode & weld terminology
- Basic weldability & common weld defects
- Monitor & record welding operations/write WPS
- Quality assurance & quality control



Diver practising drag technique



Example of a students work, before & after training

## Learning Outcome

A professional diver is competent to carry out SMAW to a given level of attainment, as described in BSEN 15618-1: 2002 and/or AWS D3.6-99.

On completion of training you shall be able to safety and competently carry out single and multi-pass fillet welds on plate, in at least two positions. You shall also understand the associated theory for the safe use of the SMAW process. Utilise at least three wet welding techniques, identify suitable welding plant and equipment, understand preparations techniques, identify welding electrodes and weld defects, cause and prevention, write a welding procedure, understand relevant welding standards and specifications.

## Who Should Attend

All certified commercial and professional divers working in the marine, shipping, and construction industries, with or without previous welding experience.

## Sales & Technical enquiries

### WELDING STUDY CENTER

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