



# SHIELDED METAL ARC WELDING (SMAW) - 1G/3G/6G

## OBJECTIVES

The course is carefully designed to offer necessary theoretical and practical exposure on the Shielded Metal Arc Welding process. The lessons are planned to enable the participants to easily graduate as confident SMAW welders. Certificate will be awarded to the welders after witnessing & evaluation of Qualification test coupon prepared as per the requirement of AWS D1.1, ASME IX, BS EN 287, and DIN.



## GENERAL OVERVIEW

**Fundamentals Practical Applications and Best Practices in SMAW.** This course is designed to answer these and other basic questions so that students can go back to their work place and immediately improve the quality of their welds.

**CERTIFICATION WILL BE CONDUCTED IN ACCORDANCE TO APPROPRIATE CODES AS PER:  
AWS D 1.1, ASME IX, BS EN 287**

**CERTIFICATION BODY  
ABS / TUV**

## COURSE OUTLINE

### Theory

- Safety essentials in welding
- Introduction and principles of SMAW
- Welding defects and solutions
- Proper metal filler selection for all applications
- Welding Procedure Specification (WPS )

### Practical

- Welding Techniques
- Preparation of weld joints
- Butt joint, fillet, and lap joint
- Cutting Processes
- Practice welding in 1G/3G/6G
- Final qualification in SMAW



## DURATION

4 Days

**100 % HRDF CLAIMABLE  
UNDER SBL SCHEME**

## REQUIREMENT

Welders with minimum 1 year welding experience