

# SHIELDED METAL ARC WELDING (SMAW) – 1G

## OBJECTIVES

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

## GENERAL OVERVIEW

**Fundamentals Practical Applications and Best Practices.** 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

## PREREQUISITE

Welders with 1 year welding experience

## PROGRAMME OUTLINE

- **The hazards associated with welding and how to prevent injury to self or others.**
- **Introduction and principle of SMAW**
- **Basic welding principle.**
- **Maintenance of welding equipment.**
- **Welding defects and solution**
- **Proper metal filler selection for all applications**
- **Records to keep for maintaining efficiency & reducing cost.**
- **Welding Procedure specification (WPS )**



## PROGRAMME OUTLINE

- Welding Techniques
- Preparation of weld joints.
- Cutting Processes
- Practice Flat fillet flat butt , with rutile E6013 and low hydrogen electrode E7018 for low and medium carbon materials
- Preparation in welding for 1G postion.
- Final Qualification for 1G postion.

**100 % HRDF CLAIMABLE**

## DURATION

**5 Days / 35 Hours**

**CERTIFICATION WILL BE CONDUCTED IN ACCORDANCE TO AN APPROPRIATE CODE AS PER:**

**AWS D 1.1, ASME IX, BSEN 287 etc**

**INTERNASIONAL  
CERTIFICATION BODY**