



# **GAS METAL ARC WELDING (GMAW) - 1G/3G/6G**

## **OBJECTIVES**

Advancements in engineering material and fabrication technology have increased the demand for welds with high quality requirements. The lessons are planned to enable the participants to easily graduate as confident 1G/3G/6G GMAW 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 GMAW.** 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.

## **COURSE OUTLINE**

### **Theory**

- Safety essentials in welding
- Introduction and principles of GMAW
- Different modes of metal transfer
- Welding equipment options & functions
- Shielding gases
- Welding defects and solutions
- Welding Procedure Specification (WPS )

### **Practical**

- Welding techniques
- Preparation of weld joints
- Metal & Filler selection
- Cutting processes
- Practice in welding Flat fillet (3F), flat butt, horizontal butt (1G/3G/6G)
- Final Qualification in GMAW, witnessed by 3rd party Welding Inspector



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

**AWS D 1.1, ASME IX, BS EN 287**

**CERTIFICATION BODY  
ABS , TUV**



## **DURATION**

**3 Days**

**100 % HRDF CLAIMABLE  
UNDER SBL SCHEME**

## **REQUIREMENT**

**Welders with minimum 1 year welding  
experience**

**ENHANCING HUMAN CAPITAL**