



FLUX CORED ARC WELDING (FCAW) - 1G/3G

OBJECTIVES

Advancements in engineering material and fabrication technology have increased the demand for welds with high quality requirements. FCAW is the second largest welding process used by industries due to its ability to produce economical and acceptable quality of weld deposit with greater output confidence compared to conventional SMAW and GMAW process. Flux cored arc welding is normally performed with a CO₂ shield to protect the weld pool from atmospheric attack, thus it becomes a Gas-Shielded Process.

The lessons are planned to enable the participants to easily graduate as confident 1G/3G FCAW 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 FCAW. 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
- Familiarization with FCAW process
- Different modes of metal transfer
- Maintenance of welding equipment
- Welding defects and solutions
- Welding procedure and selection of welding alloys
- Welding Procedure Specification (WPS)

Practical

- Preparation of weld joints
- Complete joint penetration
- Partial joint penetration
- Practice in welding for 1G/3G position
- 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 , AWS**



DURATION

5 Days

REQUIREMENT

**Welders with minimum 1 year welding
experience**

**100 % HRDF CLAIMABLE
UNDER SBL SCHEME**