

## **PIPE WELDING BY CONVENTIONAL TECHNIQUE (For All Position Structural Welders by SMAW)**

**Course Code: AWC-7**

**No. of Seats: 8 per batch**

**Duration: 4 weeks**

**Dates & Fees: See Course Schedule**

### **COURSE OBJECTIVE:**

For welding circumferential joints in line pipe, piping and tubular structures, highly skilled welders are required. The welders must possess adequate skills for all position radiographic quality welding. Proper training of practicing structural all position SMAW welders is essential before they can be allowed to weld pipe joints. This course is fully designed to offer the necessary theoretical and practical exposure to conventional pipe welding. The lessons are planned in a methodical, step-by-step approach to enable the participant to easily graduate into a confident pipe welder.

### **COURSE CONTENT**

#### **THEORY: 56 hrs**

- Features & Scope of Radiographic quality weld
- Safety Precaution for Radiographic weld
- Welding power sources and their selection for Pipe Welding
- Pipe Welding Electrode, their selection and care in Handling
- Pipe Joint preparation and welding positions
- Pipe Welding Techniques
- Pipe Weld defects, causes and remedies
- Evaluation of Pipe Weld joint

#### **PRACTICAL: 104 hrs**

Practical session with various electrode types, joint types, techniques, weld positions & processes.

#### **ELIGIBILITY:**

All position structural welder.

#### **COURSE EVALUATION:**

Practical & Written/Oral tests.

#### **OUTCOMES:**

The course curriculum will enable to become all position X-ray quality plate and 5G pipe welder by SMAW/ MMAW processes.

#### **Note:**

The above course can be delivered in English, Hindi or Marathi.