



*You see a welder. We see a nation builder.*

## **IBR PLATE WELDER CERTIFICATION BY SMAW PROCESS**

**Course Code: AWC-6Q**

**No. of Seats: 5 per batch**

**Duration: 1 week**

**Dates & Fees: See Course Schedule**

### **COURSE OBJECTIVE:**

A Plate welder qualification and certification as per Chapter XIII of IBR – 1950 code is mandatory before a welder is deployed for welding Boiler Pressure Parts. AdorWAC in concurrence with National Test House (NTH – A Central Government approval body for certifying welders), Mumbai has designed this course to enable welders to acquire the IBR certification. The IBR plate welder certificate will be awarded to the welder after witnessing and evaluation of qualification test coupon by NTH scientist as per requirements of Chapter XIII of IBR code.

### **COURSE CONTENT**

#### **THEORY: 18 hrs**

- Elementary knowledge of welding equipment
- Weld joint preparation & types
- Properties of materials to be welded including Carbon steel, Alloy steel, etc.
- Elementary knowledge of power sources & weld parameters
- Different types of welding positions
- Welding electrode types, classification & storage requirements
- Welding defects & their preventions
- Introduction to NDT & DT tests & Heat Treatment ( PWHT )
- Introduction to IBR requirements for workmanship for drum / shell fabrication
- Safety precautions in welding & maintenance of IBR certificate

#### **PRACTICAL: 22 hrs**

- Practical session with E 7018 type electrodes on Single V & Double V type joints in Flat / Horizontal / Vertical Up position. The weld quality will be checked by conducting internal RT
- Preparation of Oral test based on theory topics
- Guidance of visiting NTH scientist

### **ELIGIBILITY:**

A Non IBR welder who wishes to qualify for a certificate under IBR regulations shall not be less than 18 years of age and shall have undergone a regular apprenticeship from a recognized Industrial Training Institute ( ITI ) & one year regular apprenticeship from an Industrial organization followed by at least one year regular job experience as a welder in a workshop of industry.

### **COURSE EVALUATION:**

Practical & Oral test in presence of visiting NTH scientist as per chapter XIII of IBR code. The test coupon will be subjected to Radiography & Mechanical tests as per code requirement.

### **OUTCOMES:**

The course will enable to become IBR plate welder by SMAW process as per IBR code. The IBR plate welder certificate issued by NTH Mumbai is recognized by all state IBR authorities in India and enable the welder to seek employment as a IBR Plate welder in a Boiler manufacturing plant or boiler pressure part fabricator.

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