

# INTERNATIONAL WELDER (AS PER ASME SEC.IX) – Tube & Pipe



Course Code: IW-2



No. of Seats: 8 per batch



Duration: 8 weeks



Dates & Fees: See Course Schedule

## COURSE OBJECTIVE:

To prepare welders for qualification and certification as per ASME code and be permitted to engage in welding of pressure parts pipe joints. Successful certification jointly by Ador Training Division & IIW-ANB will provide candidates with improved prospects for employment in India and abroad. Tube & pipe Welder qualification & Certification as per ASME code is essential before any welder can be permitted to weld pressure piping joints. Ador Training Division has designed this course to enable welders to award to the welder after witnessing & evaluation of qualification test coupon prepared as per the requirement of ASME Sec IX. Inspection & Certification can be done by IIW-ANB.

## COURSE CONTENT:

### THEORY: 80 hrs

- Role played by the welders in the industry
- Introduction to GTAW & SMAW/MMAW Process, Principle & Application
- Safety Precaution in Welding
- Selection of Filler rod, Welding electrode, Current & Polarity
- Choice of Shielding, Trailing & Purging-Gases
- Type of Joint Preparation and Welding Positions
- Tube & Pipe Welding Techniques
- Preparation of Welding Procedure & Qualification
- Welding Position & Performance Qualification
- Weld discontinuities & defects – Causes & Remedies
- Type and purpose of test/examination
- Evaluation of weldments by Non Destructive Tests (VT, PT, MT, UT, & RT)
- Evaluation of weldments by Destructive Tests
- Overview of ASME Section IX: Welding Procedure Specification: General requirement
- Assessment as per Ador Training Division/IIW norms

### PRACTICAL: 240 hrs

Practical session with various electrodes types, joint types, techniques, weld processes.

## ELIGIBILITY:

NCVT qualified Welder, Welders with 2-3 years work experience- with ASME qualification in 2G, 3G and 4G position by GTAW+SMAW

## COURSE EVALUATION:

Progress of International Tube & Pipe welders will be reviewed at the week-end for theory & practice, both by the trainer. They will also have to pass the Theory & Skill tests in Visual & Radiography at the end of their course curriculum.

## OUTCOMES:

SSC & ITI passed student welder upon completion of this course will be eligible to perform as qualified Semi-automatic structural welder for production & maintenance welding in fabrication shop/site by using all type of solid & flux cored wire electrodes in all positions.

## Note:

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