

SMARTWELD STRUCTURAL WELDING PROGRAM BY SMAW WELDING PROCESS IN ALL POSITION

Course Code: SW-1

No. of Seats: 12 per batch

Duration: 12 weeks

Dates & Fees: See Course Schedule

COURSE OBJECTIVE:

Smart, conversant & skilled structural welder means learning to communicate effectively, retrieve information, visualize issues from multiple perspectives and resolve difficulty of re-work or rejection. This course will enable manual welders to step up the ladder in welding hierarchy i.e. supervisor & first line inspector by qualifying themselves, as required by the ANSI/AWS D1.1 Structural Welding Code or equivalent, for wider acceptance by the structural-fabricators.

COURSE CONTENT

THEORY: 120 hrs

- Role played by the SMAW welders in industry
- Introduction & applications of commonly used metals- in Cutting/Gouging/Welding/Brazing
- Safety precaution in welding
- Choice of welding power source, polarity & accessories for SMAW welding
- Types of SMAW welding electrodes- Type, Size & Other Selection Criteria
- SMAW welding electrodes coding, classification & applications
- Weld joint preparation, type, size & profile for plates/sheet-steels
- Basics of reading blueprint drawings & symbols
- Different types of welding position & parameters
- Identification of commonly used metals & their welding attributes
- WPS & Welder's Performance Qualification
- Distortion and discontinuities in welding – causes & remedies
- Introduction to Destructive & Non-Destructive test techniques
- Module on employability skills

PRACTICAL: 240 hrs

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

ELIGIBILITY:

SSC+, ITI, or AdorWAC Baseweld qualified welder with 2-3 years of work experience.

COURSE EVALUATION:

Progress of SMARTWELD welders will be regularly reviewed at EVERY weekend for theory & practice by AdorWAC-faculty. Based on grades & skill level they will be directed for further training or repeat tests. They will also have to pass the Theory & Skill tests by Visual, Fillet-weld Break, UT or RT & Bend Tests for all positions at the end of their training curriculum as per ANSI/AWS Structural Welding Code D 1.1/XX/Steel.

OUTCOMES:

ITI (SSC-passed) SMARTWELD structural welders upon completion of this course, will be eligible to perform as qualified structural welder for production & maintenance welding in fabrication-shop/site by using all type of flux covered steel welding electrodes.

Note:

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