SMARTWELD STRUCTURAL WELDING PROGRAM BY SEMI AUTOMATIC GMAW & FCAW WELDING PROCESS IN ALL POSITION



Course Code: SW-2



No. of Seats: 8 per batch



Duration: 6 weeks



Dates & Fees: See Course Schedule

COURSE OBJECTIVE:

Smart, as conversant & skilled, structural welder means learning to communicate effectively, retrieve information, visualize issues from multiple perspectives and resolve difficulty of production due to the re-work or rejection. This course will enable semi-automatic welders to step up the ladder in production welding hierarchy i.e. supervisor & first line inspector by qualifying themselves, as needed by the ANSI/AWS D1.3 & D1.1 Structural Welding Code or equivalent, for wider acceptance by the structural-fabricators.

COURSE CONTENT:

THEORY: 60 hrs

- Role played by semi-automatic fabrication welders in industry
- Introduction & applications of commonly used metals in Cutting/Gouging/Welding/Brazing processes
- Safety precaution in welding specific to GMAW/FCAW
- Basic principle of semi-automatic GMAW & FCAW welding processes
- Knowledge of GMAW Welding Apparatus. Accessories, Care in handling & routine maintenance
- Welding consumable's specification, class, size & type (Solid/Tubular)
- Type & attributes of shielding-gases in arc welding

- Characteristics & Preferences of elective metal transfer modes in GMAW welding
- Different types of welding position & parameters
- Weld joint preparation, type, size, & profile for sheetsteel and plates
- Basics of reading blueprint drawings & symbols
- WPS & Welder's Performance Qualification
- Distortion and discontinuities in GMAW welding causes & remedies
- Introduction to Destructive & Non-Destructive test techniques
- Module on Employability Skills

PRACTICAL: 120 hrs

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

ELIGIBILITY:

SSC+, ITI/Ador Training Division Baseweld Qualified welder by Ador Training Division with 2/3 years of work experience

COURSE EVALUATION:

Progress of SMARTWELD welders will regularly be reviewed at EVERY weekend for theory & practice by Ador WACfaculty. 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:

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.

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