GAS-SHIELDED TUNGSTEN ARC WELDING (GTAW) (For Arc & Gas Welders)

Course Code: AWC-1

No. of Seats: 8 per batch

Duration: 1 weeks

Dates & Fees: See Course Schedule

COURSE OBJECTIVE:

Advancements in Engineering Materials and Fabrication Technology have increased the demand for welds withexacting quality requirements. These requirements can be best met by adopting conventional / pulsed TIG welding.

Stringent quality requirements associated with this process necessitates that the welders must possess sufficient skills and imbibe systematic and disciplined work methods.

This course is carefully designed to offer the necessary theoretical and practical exposure to conventional and pulsed TIG welding. The lessons are planned in a methodical, step-by-step approach to enable a practicing arc and gas welder to easily acquire the skills and work methods essential for GTAW/TIG welding.

COURSE CONTENT:

THEORY: 18 hrs

- Familiarization with GTAW/TIG welding process, equipment and accessories
- Safety Precautions in TIG Welding
- Metals that can be welded with GTAW Process
- Selection of Tungsten Electrodes and Shielding Gases and Handling of Equipment
- GTAW Welding Techniques
- Selection of Filler Materials and Care in their Storage and Handling
- GTAW Process related defect causes and remedies
- Pulsed TIG welding & its advantages

PRACTICAL: 22 hrs

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

ELIGIBILITY:

Gas & Electric Arc Welder with practical experience of 1 year.

Course Evaluation: Practical & Written/Oral tests.

COURSE EVALUATION:

Practical & Written/Oral tests

OUTCOMES:

The course curriculum will enable to fabricate light & medium gauges butt, fillet-joints of ferrous, non-ferrous metals by GTAW/TIG process in Flat, Horizontal, Vertical and Overhead welding positions.

Note:

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

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