

CO₂ GAS-SHIELDED METAL ARC WELDING (GMAW) (For Structural Welders)



Course Code: AWC-3



No. of Seats: 8 per batch



Duration: 2 weeks



Dates & Fees: See Course Schedule

COURSE OBJECTIVE:

Proper training of welders is a critical factor for successful switchover/application to GMAW welding process. This course will enable arc welder to acquire the basic skills / practice of GMAW welding process. This course is carefully designed to offer the necessary theoretical and practical exposure to CO₂ welding process. The lessons are planned in methodical, step-by-step approach to enable the participant to easily graduate to a confident CO₂ welder.

COURSE CONTENT:

THEORY: 20 hrs

- Knowledge of GMAW Welding Apparatus, Accessories, Care in handling & routine maintenance
- Basic principle of semi-automatic GMAW & FCAW welding processes
- Safety Precautions in GMAW Welding
- Welding Variables in GMAW Welding
- Characteristics & Preferences of elective metal transfer modes in GMAW welding
- Type & attributes of shielding-gases in GMAW welding
- Welding consumable's specification, class, size & type (Solid/Tubular)
- GMAW Process related defects, causes and remedies
- GMAW Applications and Limitations

PRACTICAL: 20 hrs

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

ELIGIBILITY:

Structural Arc Welder

COURSE EVALUATION:

Practical & Written/Oral tests

OUTCOMES:

The course curriculum will enable to fabricate light, medium & heavy thickness butt, fillet-joints of structural steels by GMAW/CO₂MIG process in Flat, Horizontal, Vertical and Overhead welding positions.

Note:

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