

BASE WELD TRAINING PROGRAM IN SMAW/MMAW & GAS WELDING/ BRAZING/CUTTING PROCESSES



Course Code: BW-1



No. of Seats: 12 per batch



Duration: 12 weeks



Dates & Fees: See Course Schedule

COURSE OBJECTIVE:

Basic welding course will facilitate youths to become supportive associates of industry & the nation. Hands on training, in vernacular dialects, will enable them to imbibe the Art & Science of welding with ease, to become skillful certified structural welders.

COURSE CONTENT:

THEORY: 120 hrs

- Role of welders in industry
- Introduction & applications of commonly used metal- in Cutting/Gouging/Welding/Brazing processes
- Safety precaution in manual metal arc & gas- welding/brazing/cutting
- 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
- Identification, construction and care in handling & storage of gas cylinders
- Identification, construction and selection of welding blow pipes/cutting nozzles & accessories
- Care in selection of pressure gas regulators, hose pipes & flash back arresters
- Selection and care in storage & handling of filler- rods/fluxes for Oxy-Acetylene welding
- Oxy-Acetylene welding/cutting flames & uses in industry
- Rebuilding & hard surfacing by welding
- Weld joint preparation, type, size & profile for plate/sheet-steels
- Different welding position & techniques
- Commonly used metals & their welding attributes
- Distortion and discontinuities in welding – causes & remedies
- Right welding procedures for improved quality & productivity
- Visual examination standards of weld
- Module on Employability Skills

PRACTICAL: 240 hrs

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

ELIGIBILITY:

ITI Welder, Welder's Helper with 1-2 years work experience, or the non-SSC fresh candidates with an aptitude for welding as career.

COURSE EVALUATION:

Progress of BASEWELD welders will regularly be reviewed at the week-end for theory & practice both by Ador Training Division-faculty. They will also have to pass the Theory & Skill tests by Visual, Fillet-Weld Break Tests for all position welding, brazing, cutting and gouging at the end of their course curriculum.

OUTCOMES:

Student - welders upon successful completion of this course will be eligible to perform general entry level production & maintenance welding at fabrication-shop/site by using general purpose and basic-coated steel welding electrodes.

Note:

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