



CONSTRUCTION MANPOWER DEVELOPMENT FOUNDATION



FACT SHEET

ADVANCED TRAINING COURSE IN TUNGSTEN INERT GAS (TIG) WELDING

Course Description:

This 5-day training/seminar is designed to provide the participants with the advance knowledge and skills in Tungsten Inert Gas (TIG) Welding process. The course will provide participants the know-how in the proper way in setting up of welding equipment and its accessories. It will also include tips in electrode preparation, basic welding joints, work piece preparation, the techniques in various welding position, welding trouble shooting as well as welding safe practices. The course provides comprehensive coverage of both theoretical and practical application.

Course Objectives:

At the end of this training course, the participants shall be able to;

- State the definition, advantages and disadvantages of tungsten inert gas welding;
- Set-up and operate the TIG welding equipment properly and safely;
- Select and distinguish different types of electrodes and protective gases;
- Demonstrate the proper method of preparing/reshaping the tungsten electrode for welding with AC or DC;
- Select the correct size and type of filler rod;
- Identify potential hazards and apply control measures for a safe welding process;
- Demonstrate the proper TIG welding torch manipulation techniques;
- Demonstrate a variety of TIG welds in different welding position using carbon steel plate, stainless steel and aluminum;
- Demonstrate the proper method of TIG welding in carbon steel pipe in different welding positions

Target Participants:

- High school graduates
- Mechanical engineering and technology students



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- Any Individual willing to learn TIG welding
- With good moral character