



Welding Technology

Duration 5 Days

Introduction

This is a 5 days course aimed at people with little or no knowledge of welding. It will give description of arc welding and gas welding processes used for metal joining. It is a hands on introduction to the common welding processes used in industry. Course will include oxyacetylene, SMAW, GTAW and GMAW and as well as appropriate safety procedures

Who Should Attend

Mechanical Engineers, Technical Executives, Technicians and those who are directly or indirectly involved in welding works.

Course Objectives

This training class objectives include the following:

- Identify types, principles and process of welding processes.
- Acquire basic knowledge of welding power supplies, tools, equipment and filler materials.
- Discuss electrical safety with regards to welding processes

Course Outlines:

Introduction to Welding

- Basics of metallurgy
- Welding and cutting processes
- The physics of welding
- Variations of weld joints and positions
- Welding safety

Shielded Metal Arc Welding

- SMAW welding equipment and supplies
- SMAW welding equipment adjustment and assembly
- Welding electrodes
- What process and technique to use and when
- Hands-on setup and practice exercises, and fabrication using several techniques



Oxyacetylene Processes

- Oxyacetylene setup and safety
- Equipment and supplies
- Assembly and adjustment
- Welding and cutting techniques
- Welding joints, and positions
- Brazing
- Oxyacetylene cutting
- Hands-on projects and fabrication exercises

Tungsten Arc Gas Welding-TIG,Heliarc

- TGAW welding safety
- TGAW welding theory
- TGAW welding equipment/materials
- TGAW uses and techniques
- Hands-on practice exercises and