

Training Title

MODERN WELDING TECHNOLOGY: WELDING, FABRICATION & INSPECTION (AWS, ASME & API)

Training Duration

5 days

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

Training Venue and Dates

Modern Welding Technology: Welding, Fabrication, and Inspection (AWS, ASME & API Codes)	5	23-27 May	\$3,300	Abu Dhabi
Modern Welding Technology: Welding, Fabrication, and Inspection (AWS, ASME & API Codes)	5	10-14 October	\$3,300	Dubai
Modern Welding Technology :Welding, Fabrication, and Inspection (AWS, ASME & API Codes)	5	12-16 December	\$3,300	Abu Dhabi

Training will be held at any 5 star hotels.

Training Fees

3300 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

SUITABLE FOR:

- ★ Engineers from welding and various related departments such as Design, Planning, Production, and Inspection Welders, Technicians, Inspectors, Supervisors, Engineers and Managers.
- ★ This is also preparatory course for AWS/CWI, CSWIP Examinations.
- ★ Selection of Metals and Metal Properties.
- ★ ASME Section IX and V
- ★ Weld Discontinuities
- ★ Visual Inspection
- ★ NDT and DT Inspection & Inspection Procedures.

COURSE OBJECTIVES

- ★ This training course provides the complex science of welding- processes, selection of power sources, weld metallurgy, weld ability of metals, testing and inspection techniques.
- ★ Also covers welding processes, welding consumables, design of welded joints, applied welding metallurgy and heat treating, welding quality control, non-destructive testing and major International Welding Codes and Standards such as AWS, API & ASME.
- ★ Appreciation of Weld Design, Development, Planning, Production
- ★ Understanding the key welding concepts to design and produce quality welds, reliably and economically.

OUTLINE

- ★ Overview of codes of construction
- ★ Materials of construction
- ★ Overview of fusion welding process
- ★ Basic welding Metallurgy.
- ★ Welding Consumables, usage testing
- ★ Welding of plain carbon steels
- ★ Welding of low alloy steels
- ★ Welding of Stainless steels
- ★ Welding of dissimilar materials
- ★ Welding of Procedure Qualifications
- ★ Welding of Performance Qualifications
- ★ Welding defects, process & detection
- ★ Welding processes
- ★ Concepts of SMAW, GTAW, GMAW, FCAW, SAW, RSW etc.,
- ★ Safety precautions in welding
- ★ Economics of welding
- ★ Welding consumables
- ★ Weld joint design and basic symbols , Metal Joining and Cutting Process

- ★ **Weld faults- causes and remedies**
 - ★ **Destructive and Non destructive testing**
 - ★ **Welding qualification WPS, PQR, WPQ.**
 - ★ **QA systems for coded fabrication, typical QA plan**
 - ★ **Case studies, discussions.**
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