

Training Title

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

Training Duration

5 days

Training Venue and Dates

Modern Welding Technology: Welding, Fabrication, and Inspection (AWS,ASME & API Codes)	5	04-08 March 2024	\$5,500	Dubai, UAE
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Training will be conducted in any of the 5 star hotels.

Training Fees

- **5,500 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch.**

Training Certificate

Prolific Consultants FZE Certificate of Course Completion will be issued to all attendees.

COURSE DESCRIPTION

Welding Technology plays a major role in all maintenance and fabrication activities in the industry. Production equipment, a highly sophisticated welding technique and qualified personnel allow the processing or production of steel products for different applications within short periods.

This training provides a much-needed source of authoritative information on the complex subject of welding. It provides a comprehensive run-down of the complex science of welding-processes, selection of power sources, weld metallurgy, weldability of metals, testing and inspection techniques.

This training will cover 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 and API.

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.*

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.*

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Very useful Course Materials will be given.

COURSE 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.*

Last day reviews, discussions, assessments and case studies will be done

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