



API – 577 Advanced Welding Inspection & Metallurgy, 2015

Duration: 3 days

INTRODUCTION:

The main emphasis of this program is on improving and ensuring safety through the use of owner / user or third-party inspectors specialised in Oil and Gas requirements in a manner that protects employees, the public, and the environment. The course also provides the understanding of the welding requirements for fabrication, inspection and testing portions of ASME Codes for new construction and how they work with API Codes for post construction inspection, repairs and alterations. It provides the process, oil, gas, petrochemical and other process industries with the assurance that personnel trained and certified under this internationally recognized program have the required knowledge and experience for the job in the field.

COURSE OBJECTIVES:

- To know various Welding processes and their merits and limitations
- To get the overview of Welding procedures and review if WPS/PQR
- To understand the method of Filler Metal Selection
- To Know the common Non-destructive examinations and their application
- To understand the basic Welding metallurgy
- To study the Effects of Preheating Post-weld Heat Treatment, Hardening of HAZ
- To understand Weldability of Steels
- To understand the Carbon Equivalent Formula and its practical use
- To know the welding issues specific to Refinery and petrochemical plants

WHO SHOULD ATTEND?

This course will be highly beneficial for welding Engineers, Mechanical Supervisors, Foreman, Shop Inspectors, QA/ QC personnel and inspection agencies including the Third Party Inspection agencies. Welders, welding supervisors, inspectors and NDE examiners who are seeking an understanding of welding technology and welding inspection will find the course useful. It will help the API 577 Certification exam candidates to score very well.

COURSE CONTENTS

DAY 1

- API 577 Scope and Definition · Welding Inspection · Welding Processes, Welding Procedures & Welder Qualification.

DAY 2

- ASME IX Requirements for WPS, PQR, WPQ, Mechanical Testing Requirements
- ASME V NDT Requirements and methodology, Acceptance Rejection Criteria for API 653.
- (Tanks), API 571/ASME B31.3 (Piping) and API 510 (Vessels).

DAY 3

- Welding Materials, Metallurgy, Welding defects/discontinuities.

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