

€ TRAINING

High Pressure Vessel Inspection Of
Specification API 510



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Introduction:

The main emphasis of this course is on improving and ensuring safety through the use of owner/user or third-party inspectors specialized in pressure equipment in a manner that protects its employees, public, and environment.

Course Objectives:

At the end of this course, the participants will be able to:

- Understanding the Pressure Vessel Inspection Code.
- Understanding Maintenance Inspection.
- Identifying the Damage Mechanisms Affecting Fixed Equipment in the Refining Industry.
- Explaining the Inspection of Pressure Vessels.
- Explaining the Inspection of Pressure-Relieving Devices.
- Understanding the Welding Inspection and Metallurgy.
- Identifying the Boiler and Pressure Vessel Code.

Targeted Audience:

- Those who are involved in the design, procurement, engineering construction, operation, maintenance, and inspection of pressure vessel and related facilities.
- All personnel working in the oil, gas, and petrochemical industry.
- Operators.
- Technicians.
- Engineers.
- Course Details/Schedule.

Course Outlines:

Unit 1: Introduction:

- Terminology.
- Corrosion Rates and Inspection Intervals.
- Joint Efficiencies.

Unit 2: Static Head:

- Internal Pressure.
- External Pressure.
- Pressure Testing.

Unit 3: Impact Testing:

- Weld Size For Attachment Welds at Openings.
- Nozzle Reinforcement.
- Welding Procedure.

Unit 4: Qualify Cation Evaluation Based on Asme Boiler And Pressure Vessel Code:

- Weld Procedure Review May Include Smaw, Gtaw, Gmaw, Or Saw, With The Following Limitations.
- General Welding Requirements.

Unit 5: Nondestructive Examination:

- Practical Knowledge General.
- Practical Knowledge Specific.