

€ TRAINING

High Pressure Vessel Inspection Of
Specification API 510



12 - 16 August 2024
London (UK)
Landmark Office Space



High Pressure Vessel Inspection Of Specification API 510

REF: O1514 DATE: 12 - 16 August 2024 Venue: London (UK) - Landmark Office Space Fee: 6375 Euro

Introduction:

This training program focuses on equipping participants with the necessary skills and knowledge to conduct inspections in accordance with the American Petroleum Institute API 510 standards. It empowers participants to confidently ensure compliance and safety in high-pressure vessel inspections.

Program Objectives:

By the end of this program, participants will be able to:

- Understand the scope and requirements of API 510 for high-pressure vessel inspections.
- Gain proficiency in conducting inspections, assessments, and evaluations.
- Learn techniques for detecting and evaluating damage mechanisms in vessels.
- Develop skills in reporting findings and recommending corrective actions.
- Implement best practices for maintaining compliance and safety.

Target Audience:

- Inspection engineers and technicians.
- Pressure vessel operators and maintenance personnel.
- Quality assurance and quality control QA/QC inspectors.
- Engineers and managers responsible for asset integrity.
- Professionals seeking certification or enhancement in vessel inspection.

Program Outline:

Unit 1:

Introduction to API 510 Standards:

- Overview of API 510 Code Requirements.
- Roles and Responsibilities of Inspectors.
- Regulatory Framework and Compliance Requirements.

- Importance of Pressure Vessel Inspections.
- Ethical and Professional Conduct in Inspections.

Unit 2:

Inspection Techniques and Methods:

- Non-Destructive Testing NDT Methods UT, PT, MT, RT.
- Visual Inspection Techniques.
- Thickness Measurement and Monitoring.
- Hydrostatic Testing Procedures.
- Advanced Inspection Technologies.

Unit 3:

Damage Mechanisms and Assessment:

- Corrosion Mechanisms and Types.
- Welding Defects and Inspection Requirements.
- Brittle Fracture and Environmental Cracking.
- Creep, Fatigue, and High-Temperature Damage.
- Fitness-for-Service FFS Assessment.

Unit 4:

Reporting and Documentation:

- Inspection Planning and Preparation.
- Inspection Reporting Requirements.
- Documentation of Findings and Recommendations.
- Risk-Based Inspection RBI Strategies.
- Case Studies and Lessons Learned.

Unit 5:



Compliance and Safety Practices:

- Regulatory Compliance Requirements ASME, API.
- Safety Protocols and Risk Mitigation Strategies.
- Emergency Response Planning.
- Continuous Improvement in Inspection Practices.
- Future Trends in Pressure Vessel Inspections.