

€ TRAINING

Piping Inspection of Specification API 570



10 - 14 November 2024
Cairo (Egypt)



Piping Inspection of Specification API 570

REF: O1513 DATE: 10 - 14 November 2024 Venue: Cairo (Egypt) - Fee: 4465 Euro

Introduction:

This program is designed to prepare participants for the certification exam only.

This training program focuses on equipping participants with essential skills and knowledge to conduct inspections in accordance with the American Petroleum Institute API 570 standards. It empowers them to uphold stringent inspection standards and ensure the safety and efficiency of piping systems.

Program Objectives:

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

- Understand the scope and requirements of API 570 for piping inspections.
- Gain proficiency in conducting inspections, assessments, and evaluations.
- Learn techniques for detecting and evaluating corrosion and other damage mechanisms.
- Develop skills in reporting findings and recommending appropriate corrective actions.
- Implement best practices for maintaining compliance and safety in piping systems.
- Prepare for the certification exam.

Target Audience:

- Piping inspectors and engineers.
- Maintenance and integrity personnel.
- Quality assurance and quality control QA/QC inspectors.
- Plant operators and facility managers.
- Professionals seeking certification or enhancement in piping inspection.

Program Outline:

Unit 1:

Introduction to API 570 Standards:

- Overview of API 570 Code Requirements.

- Roles and Responsibilities of Piping Inspectors.
- Regulatory Framework and Compliance Requirements.
- Importance of Piping Inspections.
- Professional Conduct and Ethics in Inspections.

Unit 2:

Inspection Techniques and Methods:

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

Unit 3:

Corrosion and Damage Mechanisms:

- Corrosion Types and Mechanisms.
- Erosion, Erosion-Corrosion, and Mechanical Damage.
- Welding Defects and Inspection Requirements.
- Brittle Fracture and Environmental Cracking.
- Fitness-for-Service FFS Assessment.

Unit 4:

Reporting and Documentation:

- Inspection Planning and Preparation.
- Requirements for Inspection Reports.
- 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 Piping Inspections.
- Prepare for the certification exam.

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