

API 570

Exam Preparation Presentation

5 DAY
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CLASSROOM
TRAINING

Contact us

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Who should attend?

This training course is recommended for:

- Inspectors
- Engineers
- Technicians
- Asset Integrity Engineers
- Engineering Management
- Statutory or Regulatory Representatives
- Inspection Management

Involved in or responsible for the maintenance and inspection of pressure vessels, pressurised pipework or above ground storage tank.

Course Outcomes:

- Practice analysis of defects and degradation of equipment, piping, and pipelines
- Predict degradation in-service and set optimum inspection intervals (API 580/581)
- Use quantitative, qualitative and semi-qualitative analysis for degraded conditions to determine risk for continued service or replace/repair
- Apply the latest techniques I Risk Based Inspection (RBI) and identify the various repair practices of pipelines, piping vessels, and tanks in refineries, oil & gas, and petrochemical plants
- Prepare for the API ICP API 580 Examinations



Primary Course Objectives:

- Review and apply the objectives identified in the API 570 & ASME B31.3 ICP BOK
- Review in-depth critical areas commonly encountered within the API ICP 570 Examination
- Review recommended examination practices
- Perform general review of repair strategies related to pressure vessels, pipework and above ground storage tanks
- Development of Open Book and Closed Book Skills
- Preparation for API ICP Examinations
- Mock Examination
 - Course includes: 5 weeks access to our eLearning platform for homework assignments & mock examinations; and

Final skype Q & A session with lecturer prior to API ICP examinations

Course Schedule:

Basic Schedule Monday (Day 1 08:30 – 16:30)

Registration & Tea/Coffee

Introduction, Course Objectives & ICP Exam Overview

Review of API ICP Examination

- Publications Effectivity Sheet
- Body of Knowledge
- Exam Details
- Test Recommendation Preparations

Overview on Homework Sheets

Introduction & Overview

Calculations and Code Work

- Corrosion rate and inspection intervals
- Weld Joint Factors and Casting Quality Factors
- Internal Pressure / Minimum Thickness of Pipe

Examination Preparations (General Info & Guidance)

Homework Distribution

Basic Schedule Tuesday (Day 2 08:00 – 16:30)

Registration & Tea/Coffee

Calculations and Code Work (cont.)

- Pressure Testing
- Impact Testing.
- Thermal Expansion
- ASME B16.5

Question & Answer session

Homework Distribution

Basic Schedule Wednesday (Day 3 08:00 – 16:30)

Registration & Tea/Coffee

NDE

- ASME V, Article 1, General Requirements
- ASME V, Article 2, Radiographic Examination
- ASME V, Article 6, Liquid Penetrant Examination
- ASME V, Article 7, Magnetic Particle Examination
- ASME V, Article 9, Visual Examination
- ASME V, Article 10, Leak Testing
- ASME V, Article 23, Ultrasonic Standards (Section SE-797 only)
- API 570

Welding & NDE

- API RP 577

Welding

- Welding Procedure and Qualification Evaluation
- ASME B31.3
- API Standard 570

Calculations and Code Work

- Preheating and Heat Treatment Requirements

Question & Answer session

Homework Distribution

Basic Schedule Thursday (Day 4 08:00 – 16:30)

Registration & Tea/Coffee

General

- API 570, Piping Inspection Code
- API RP 574, Inspection of Piping
- API RP 571, Damage Mechanisms
- API RP 578

Question & Answer session

Homework Distribution

Basic Schedule Friday (Day 5 Overview)

Registration & Tea/Coffee

Overview

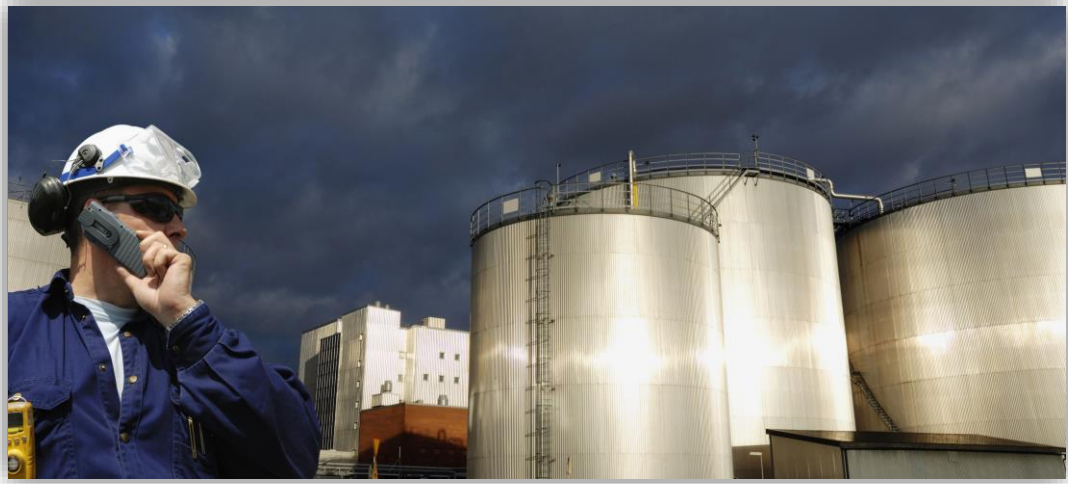
- API 570 (General Overview)
- API 575 (General Overview)

Mock Exams

- Closed Book 50 min. (30 Questions 11:10 - 12:00)
- Open Book 100 min. (22 Questions 12:45 - 14:30)

Review Punch Items

Final Remarks and Certificate Hand Out & Close Out



Information on our Course Developer / Trainer:

Our course developer and lead lecturer, Mr. Kevin R. Maley is a 41-year-old Senior Inspection Engineer / Authorized Inspector of pressurized equipment and Quality Assurance / Control Specialist for the inspection, testing and certification of new and in-service equipment.

He has 21 years' experience in fabrication shops, in-service condition inspection and repair of equipment within petrochemical, power, utility, pulp, and nuclear environments (Currently focussed mainly within the petrochemical field).

He is an experience and patient lecturer that has been directly involved in and responsible for the development of effective and professional training material for API ICP 510, 570 and 653 inspector examinations since 2007 and currently maintains his certification in all the primary API ICP certification and holds ASNT NDT Level III certification in the MT, PT, RT & VT methods.

Key Qualifications & Certifications

- IEng MInstNDT (EngC reg. no. 608847)
- BSc (hons) NDT (University of Northampton)
- API 653 Authorized above ground storage tank Inspector (Cert no: 33577)
- API 570 Authorized Pressurized Piping inspector (Cert no: 33340)
- API 510 Authorized Pressure Vessel Inspector (Cert no: 31035)
- API 571 Supplementary certification, Advanced knowledge of corrosion and materials (Cert no: 35833)
- API 580 Supplementary certification, Advanced knowledge of Risk-Based inspection practices (Cert no: 35875)
- API 577 Advanced knowledge in welding and metallurgy (Cert no: 37575).
- API 936 Refractory personnel certification (Cert no: 37502)
- IIW International Welding Inspector Diploma Comprehensive Level (Cert no: ZA/IWI-C00032)