



API 570 - Piping Inspection Code & Inspector Certification Exam Preparation Training



VELOSI TRAINING
INSTITUTE L.L.C.

Introduction

Velosi Training Institute LLC is a new venture of Velosi Asset Integrity Limited, which offers a comprehensive range of specialized courses in Certified Technical Training, Exam Preparatory, HSE, Training in Oil and Gas Field, ISO, NEBOSH, IOSH, Food Safety Courses, Administrative & Business related trainings, Corporate and Postgraduate Qualifications.

Our most valuable asset at Velosi, as a globally recognized training provider, is our experienced trainers, who are experts in their fields and can tailor the curriculum to our clients' specific needs in order to sharpen their knowledge, prepare them for the next phase of their careers, and implement best industry safety practices.

Course Overview

Velosi Training's 5 Day course focuses on learning the API 570 Piping Inspection Code for those who wish to become a Certified API 570 Piping Inspectors as well as the delegate will gain knowledge from API 571, 572, API 577, ASME Section V, ASME B16.5 and ASME Section IX. The Inspector Certification Programs of API are based on industry-developed standards that are globally accepted and used. This exam preparation course will cover the fundamental Piping Design with the priority on the syllabus published by the API Organization for the said examination.

This course will define the underlying intents of all code sections, teach participants how to read code rulings, and, in the end, instill confidence in them to make "Run, Repair, Replace" judgments.

Learning Objectives:

- Acquaint participants with the API 570 Code's major ideas and technical vocabulary.
- Explain the principles of piping design. To compute the thickness of a pipe's wall.
- Find out the MAWP, flange ratings, and scrap thickness for pipes, fittings, and valves.
- Help participants understand the key concepts of the decline mechanism.
- Introduce students to different ways of evaluating and decision-making.
- Identifying cost-effective approach towards making the 3'R' decisions.
- How to perform repairs, alterations and re-evaluation of piping systems.
- Assessment of future remaining life, Life extension methods for piping systems.
- To help the delegate to pass in API 570 examination

Who should attend?

This course is appropriate for a wide range of professional but not limited to:

- Professionals who are interested in getting the API-570 certification
- Process Piping Inspectors
- Piping Inspection Engineers
- Plant Inspectors
- Corrosion Engineers
- QA/QC Engineers

Benefits

Learning is an investment that pays off in the long run. It allows a person to expand their career prospects, improve their professional skills, and become more competent.

- Career Development
- Increased Job Opportunities
- Technical Expertise
- Worldwide Recognition

Eligibility Criteria

Education	Minimum Years of Experience	Description of Required Experience
BS or higher in engineering or technology	1 year	Supervision or performance of inspection activities as described in API 570.
2-year degree or certificate in engineering or technology	2 years	Design, construction, repair, operation, or inspection of in-service piping systems, of which one year must be in supervision or performance of inspection activities as described in API 570.
High school diploma or equivalent	3 years	Design, construction, repair, operation, or inspection of in-service piping systems, of which one year must be in supervision or performance of inspection activities as described in API 570.
No formal education	5 or more years	Design, construction, repair, operation, or inspection of in-service piping systems, of which one year must be in supervision or performance of inspection activities as described in API 570.

Course Outline

Day 1

- Introduction of API 570 Body of Knowledge
- Piping Calculations
- Calculated The minimum required thickness of permanent blanks
- Evaluating in service piping systems (Existing Piping)
- Injection Point Limits
- Calculate long and Short Corrosion Rate

Day 2

- Tests pressure requirements
- Thermal Expansion and Contraction
- Required and recommended minimum preheats for materials of various P-Numbers
- Heat Treatment Requirements
- Requirements for Low Temperature Toughness Tests

Day 3

- ASME B16.5
- Material Verification for New and Existing Alloy Piping Systems API 578
- ASME IX Welding General Requirements
- Welding Repairs
- Bolting and gasket selection
- Inspection, Examination, and Testing API 570 & B31.3
- Repairs and Alterations of Piping Systems

Day 4

- ASME IX Welding Procedure Qualifications
- Welding Essential & non-essential and supplementary essential Variables
- Welders test positions & Diameter & thickness qualification and position qualification
- Welding Processes
- P- Numbers & S-Numbers, F-number and A-number
- Alternate F-Numbers and Alternate P-Numbers
- Damage Mechanisms Affecting Fixed Equipment in the Refining Industry API 571

Day 5

- Welding Inspection and Metallurgy API 577
- Hot Tapping and In-Service Welding
- API 574 Piping Inspection
- Corrosion Under Insulation (CUI)
- Soil-to-Air (S/A) Interface
- ASME Section V - Nondestructive Test Methods
- Corrosion Beneath Linings and Deposits
- Inspection of Underground Piping
- Radiographic & Liquid Penetrant & Magnetic Particle AND Visual Test examination



Training Details

Trainer Qualifications	The trainer holds a Bachelor's Degree in Mechanical Engineering and has various certification in API, NACE, CSWIP and AWS CWI. He has over 15 years' experience in construction field in oil and gas industry as an API and ASME trainer. His professional work experience includes failure analysis investigation, condition assessment, material and corrosion testing, material selection and corrosion management.
Mode of Training	Training will be conducted via Microsoft teams online. Meeting invites will be shared on the day before the first day of training.
Course Material	<ul style="list-style-type: none">• Presentation Slides• Training Recordings• Study References
Number of Participants per Class	Minimum of 10 students per batch Course Duration is 25 hrs. Including examination & clarifications. The training schedule is flexible and will be either in the mornings on the weekends and evenings on weekdays as per Velosi's Approved Training Schedule.
Registration / Payment Method	The interested participants should register his/her name and other necessary details through Velosi's online registration form or email confirmation to the designated contact person. Payment must be settled in full after the registration process. Payment can be made online through the payment link provided by Velosi or through bank transfer.
Certification Issuance Policy	The training certificate (Digital Copy) will be awarded to participants who completed the training and passed the exam with 80% or higher score.

Discount Scheme

Participants can avail for a group discount when signing up for 2 or more courses.

Group Discount (same company only)

- 15% Discount for groups of 5 or more.
- 10% Discount for groups of 3-4.

Bundle Discount

- Sign up for 2 courses and get an extra 10% off.
- Sign up for 3 courses and get an extra 15% off.

Why Choose Us

- In-Depth Comprehensive Explanation of all Sections.
- Continuous Assessment with Section-wise Practice Tests.
- Study Material in the form of PPT, Group Discussions, etc. written in very easily understandable manner.
- Technical clarifications at all levels during/after training.
- Providing Real Exam Questions & Answers.
- Offers reasonable price and seasonal discounts.
- Give flexibility in training schedule.
- Ability to learn at your own time with access to live recordings.
- Incorporate Case Studies from Real-World Situations.
- Trainees are eligible to earn Continuing Professional Development (CPD) credits.



Other Courses We Offer:

- Velosi Certified Programs
 - Certified Fire Protection Professional
 - Certified PHA HAZOP Leader
 - Certified Process Design Professional/Expert
 - Certified Reliability Professional
 - Certified SIL Professional/Expert
 - Certified Asset Integrity Professional/Expert
 - Certified Tableau Data Analyst
 - Certified Environment Impact Assessment Professional
- Oil & Gas Field Training
 - Asset Integrity Management
 - Pipeline Integrity Management
 - Wellhead Integrity Management
 - Structural Integrity Management
 - Safety Integrity Level (SIL)
 - Process Engineering - AutoCAD Training Course
- Health, Safety & Environment (HSE) Training
- ISO Training
- NEBOSH Training (Certificates, Awards & Diplomas)
- Exam Preparation Training
 - BCSP Associate Safety Professional (ASP)/ Certified Safety Professional (CSP)
 - NFPA Certified Fire Protection Specialist (CFPS)
 - EXIDA Certified Functional Safety Professional/Expert (CFSP/CFSE)
 - ABIH Certified Industrial Hygienist (CIH)
 - SMRP Certified Maintenance and Reliability Professional (CMRP)
 - PMI Project Management Professional
 - API Training (510, 571, 579, 580, 581, 653 & RP 2SIM)
 - Sig Sigma Green Belt
 - ASNT NDT Level III
- Food Safety Training
 - Basic Food Hygiene Training (level 2)
 - Intermediate Food Hygiene Training (Level 3)
 - Advance Food Hygiene Training (Level 4)
 - HACCP Awareness Training (Level 2)
 - Intermediate HACCP Training (Level 3)
 - Advance HACCP Training (Level 4)
- IOSH Training (Managing, Leading & Working Safely)
- High-field (HABC) Accredited Training
- Administrative & Management Skills Training

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