

*WebCorr Corrosion Consulting Services Presents*

# API 570 Piping Inspection Code: In-service Inspection, Rating, Repair, and Alteration of Piping Systems

Date: As published on website    Venue: As published on website

## Course Overview

API 570 covers inspection, rating, repair, and alteration procedures for metallic and fiberglass reinforced plastic (FRP) piping systems and their associated pressure relieving devices that have been placed in-service. This inspection code applies to all hydrocarbon and chemical process piping systems and process piping systems in other industries. This 5-day course provides participants with a clear and thorough understanding of various aspects of in-service inspection, rating, repair, and alteration procedures as required by the code.

This 5-day short course is available for in-house training, on-site training, online and distance learning worldwide. It can also be customized to meet the specific needs of your organization.

## Who Should Attend

Designers, engineers, inspection and maintenance personnel who are concerned with piping in-service inspection, rating, repair, and alteration in the various industries such as refining, petrochemical, chemical process, pharmaceutical, power, onshore and offshore industries.

## Course Outline

1. Introduction to Mechanical Integrity and Risk
2. Corrosion and Metallurgy
3. Terms and Definitions
4. Owner/User Inspections Organization
5. Inspection, Examination, and Pressure Testing Practices
  - 5.1 Inspection Plans
  - 5.2 Risk-Based Inspection
  - 5.3 Preparation for Inspection
  - 5.4 Inspection for Types and Locations of Damage Modes of Deterioration and Failure
  - 5.5 General Types of Inspection and Surveillance
  - 5.6 CMLs
  - 5.7 Condition Monitoring Methods
  - 5.8 Pressure Testing of Piping Systems—General
  - 5.9 Material Verification and Traceability



- 5.10 Inspection of Valves
- 5.11 In-service Inspection of Welds
- 5.12 Inspection of Flanged Joints
- 5.13 Inspection Organization Audits
6. Interval/Frequency and Extent of Inspection
  - 6.1 General
  - 6.2 Inspection During Installation and Service Changes
  - 6.3 Piping Inspection Planning
  - 6.4 Extent of Visual External and CUI Inspections
  - 6.5 Extent of Thickness Measurement Inspection
  - 6.6 Extent of Small-bore, Auxiliary Piping, and Threaded-connections Inspections
  - 6.7 Inspection and Maintenance of Pressure-relieving Devices (PRD)
7. Inspection Data Evaluation, Analysis, and Recording
  - 7.1 Corrosion Rate Determination
  - 7.2 MAWP Determination
  - 7.3 Required Thickness Determination
  - 7.4 Assessment of Inspection Findings
  - 7.5 Piping Stress Analysis
  - 7.6 Reporting and Records for Piping System Inspection
  - 7.7 Inspection Recommendations for Repair or Replacement
  - 7.8 Inspection Records for External Inspections
  - 7.9 Piping Failure and Leak Reports

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- 7.10 Inspection Deferral or Interval Revision
- 8 Repairs, Alterations, and Re-rating of Piping Systems
  - 8.1 Repairs and Alterations
  - 8.2 Welding and Hot Tapping
  - 8.3 Re-rating
- 9 Inspection of Buried Piping

- 9.1 General
- 9.2 Types and Methods of Inspection
- 9.3 Frequency and Extent of Inspection
- 9.4 Repairs to Buried Piping Systems
- 9.5 Records
- 10. End-of-Course Examination

## Course Registration

Please register online at [www.corrosionclinic.com](http://www.corrosionclinic.com)  
Or use the form below (photocopies of this form may be used for multiple bookings).

Dr/Mr/Ms \_\_\_\_\_

Organization \_\_\_\_\_

Contact Person \_\_\_\_\_

Contact Dept \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

Email \_\_\_\_\_

Payment should be made by TT or online banking. Currencies in Australian Dollar, Canadian Dollar, US Dollar, Euro and Sterling Pound can be transferred directly without conversion. Our bank details can be found at the link below:

<https://www.corrosionclinic.com/payment.html>

## Course Fee and Discount

**Standard:** \$3500      **Discount:** \$3150

The fee includes a hardcopy of course note, certificate, light lunch, coffee breaks each day during the course.

Discount applies to a group of 3 or more persons from the same organization registering at the same time, or early-birds making payment at least 8 weeks before the course commencing date.

### Cancellation and Refunds

Cancellation or replacement should be conveyed to WebCorr in writing (email or fax). An administration charge of 50% of the course fee will be levied if the cancellation notice is received from 14 to 7 days before the course commencing date. No refund will be made for cancellation notice received 6 days and less. No refunds will be given for no-shows. Should WebCorr find it necessary to cancel a course, paid registrants will receive full refund. Refund of fees is the full extent of WebCorr's liability in these circumstances.



WebCorr has NACE certified Corrosion Specialist (#5047) providing customized in-house training, online and distance learning corrosion courses, corrosion seminars and workshops on corrosion, materials, metallurgy, paints and metallic coatings. Our corrosion courses are developed and taught by NACE certified Corrosion Specialist with over 30 years of practical experience in the field. Our training success is measured by your learning outcome.

