

*WebCorr Corrosion Consulting Services Presents*

# API RP 580 Risk-based Inspection

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

## Course Overview

API RP 580-2016 (3<sup>rd</sup> Edition) is the latest update on the Risk-based Inspection (RBI) practice. This code provides guidance on developing a Risk-based Inspection (RBI) program for fixed equipment and piping in the hydrocarbon and chemical process industries. This 5-day course provides participants with a clear and thorough understanding of the basic elements for developing, implementing, and sustaining an effective risk-based inspection program. This API 580 training course covers the following: (1) Definition of RBI, (2) Key elements of RBI, (3) how to implement an RBI program, (4) how to sustain an RBI program.

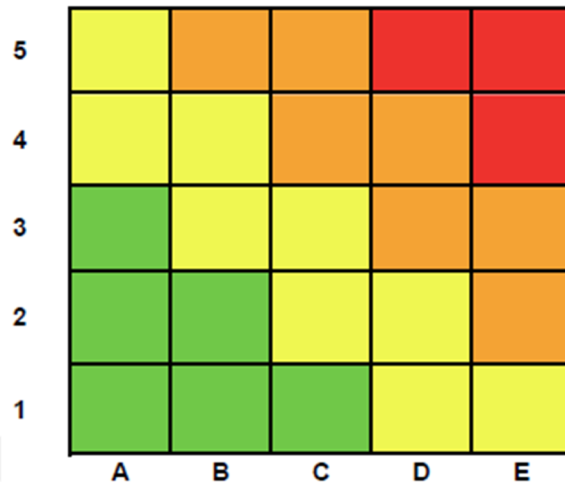
This 5-day corrosion short course is available for in-house training, on-site training, online and distance learning worldwide. It can also be customized to meet the specific needs of your organization.

## Who Should Attend

Designers, engineers, inspection and maintenance personnel who are concerned with corrosion, process safety, mechanical integrity, and reliability in the various industries such as refining, petrochemical, chemical process, power, onshore and offshore industries.

## Course Outline

1. Introduction to Mechanical Integrity and Risk
2. Scope of API 580
3. Terms and Definitions
4. Basic Risk Assessment Concepts
  - 4.1 Definition of risk
  - 4.2 Risk Management and Risk Reduction
  - 4.3 Inspection Intervals and Due Dates
  - 4.4 Overview of Risk Analysis
  - 4.5 Inspection Optimization
  - 4.6 Relative Risk vs Absolute Risk
5. Introduction to Risk-Based Inspection
  - 5.1 Key Elements of an RBI Program
  - 5.2 Consequence and Probability for RBI
  - 5.3 Types of RBI Assessment
  - 5.4 Precision vs Accuracy



- 5.5 How RBI Can Help to Manage Operating Risks
- 5.6 Management of Risks
- 5.7 RBI and Other Risk-Based and Safety Initiatives
- 5.8 Relationship with Jurisdictional Requirements
6. Planning the RBI Assessment
7. Data and Information Collection for RBI Assessment
8. Damage Mechanisms and Failure Modes
9. Assessing Probability of Failure
10. Assessing Consequence of Failure
11. Risk Determination, Assessment, and Management
12. Risk Management with Inspection Activities
13. Other Risk Mitigation Activities
14. Reassessment and Updating RBI Assessments
15. Roles, Responsibilities, Training, and Qualifications
16. RBI Documentation and Recordkeeping
17. Summary of Risk-Based Inspection Pitfalls
18. 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.

