API 580
Risk-Based Inspection

The API 580 Risk Based Inspection certification exam tests the individual's knowledge and expertise in the field of Risk Based Inspection.

API welcomes highly specialized inspectors, engineers, other professionals across the entire petrochemical industry to obtain the API 580 Risk Based Inspection certification as a validation of their profound knowledge of Risked Based Inspection (RBI).

RBI has quickly become one of the industry's premiere instruments and preferred methods of inspection. The API 580 certification will add significant value to your professional credentials, demonstrating to your employers and clients that you have obtained a high level of proficiency and understanding in this very important field.

API 580 certification is valid for a three-year term. Questions on the exam are based on API RP 580 *Risk-Based Inspection*, 3rd Edition 2016.

The API 580 exam is 4 hours long, with 70 multiple-choice questions. This closed-book examination has a set passing point of 70%, or 49 correct answers

Introduction and Course Outline

• Purpose, Scope, Roles and Responsibilities

• Risk Assessment Concepts

• Types of RBI Assessment

• Planning the Assessment

• Data Requirements and Collection

• Damage Mechanisms and Failure Modes

• Probability of Failure (POF) Analysis

• Consequence of Failure (COF) Analysis

• Risk Determination and Analysis

• Inspection Planning

• Risk Mitigation

• RBI Re-assessment

• Documentation and Records

• API 580 Practice Exam

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