

# API-580 Exam Course - API-580 Certification Test Answers

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## API 580 Questions and Answers 2024-2025 with complete solution

The work product of the RBI assessment and management approach are plans that address ways to manage risks. This is called:

- A. An Equipment Plan
- B. A Sensitivity Analysis
- C. A Risk Management Plan
- D. A total Risk Assessment Ans- A

RBI is a substitute for:

- A. Process Hazards Analysis (PHA)
- B. Hazards and operability Study (HAZOP)
- C. Mechanical Integrity (MI) Programs
- D. None of the Above Ans- D

Which of the following is not true concerning implementation of RBI implementation plans to manage risks on an equipment level?

- A. RBI will identify equipment that does not require inspection of some other form of mitigation because of the acceptable level of risk associated with the equipment's current operation
- B. Required inspection activities will reduce the consequence of failure
- C. It will provide an acceptance/understanding of the current risk level
- D. It will result in an overall reduction in risk for the facilities and/or equipment Ans- B

RBI could be expanded to include failures other than loss of containment. Examples of other failures and failure modes are:

- A. Pressure relief devices (plugging, fouling, nonactivation)
- B. Instrument and control systems
- C. Structural Systems
- D. Machinery Components Ans- A

Absolute Risk is:

- A. Risk resulting from forces of nature, acts of God, or sabotage
- B. The manner of failure
- C. Permanent Risk
- D. An ideal and accurate description and quantification of risk Ans- D

In RBI terms, this is known as "the source of harm":

- A. Hazard
- B. Source
- C. Hazardous Chemical
- D. Toxic Chemical Ans- A

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### API Risk Based Inspection Professional Sample Questions (Q40-Q45):

#### NEW QUESTION # 40

Results of quantitative consequence analysis are usually expressed in

- A. Occasion
- B. Ranges from high to low
- C. Frequency
- D. Numeric

**Answer: D**

#### NEW QUESTION # 41

Risk presented in qualitative risk analysis as

- A. Precise numeric value
- B. Form of risk matrix
- C. Form of event tree and fault tree

**Answer: B**

#### NEW QUESTION # 42

The data validation step stresses the need for a knowledgeable individual.

- A. Similar systems at the site or within the company or published data
- B. To compare the results with previous measurements on that system
- C. To comparing data from the inspections to the expected deterioration mechanism and rates
- D. All of the above

**Answer: D**

#### NEW QUESTION # 43

Probability of failure is typically expressed in terms of

- A. undesirable events
- B. time
- **C. frequency**
- D. deterioration rate

**Answer: C**

Explanation:

As per Section 9.2 of API 580:

"POF is typically expressed in terms of frequency. Frequency is expressed as a number of events occurring during a specific timeframe." Further clarified in the same section:

"For probability analysis, the timeframe is typically expressed as a fixed interval (e.g. one year) and the frequency is expressed as events per interval (e.g. 0.0002 failures per year)." This confirms that frequency is the correct term used to express probability of failure in RBI. Other options like deterioration rate or time are influencing factors but not the standard unit of expression.

Reference: API 580, 2nd Edition (2016), Section 9.2

#### NEW QUESTION # 44

..... represents the next generation of inspection approaches and interval setting, recognizing that the ultimate goal of inspection is the safety and reliability of operating facilities

- A. RCM
- B. HAZOP
- **C. RBI**
- D. PHA

**Answer: C**

#### NEW QUESTION # 45

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