

Authentic API-580 Exam Questions, API-580 Cert

API 580 - Practice exam Questions And Correct Answers, 100% Correct | 66 Q&A 2023/2024

Which of the following statements is correct with regard to equipment items with risks deemed acceptable by RBI analysis?

- A Inspection interval should be tightened
- B Inspection effectiveness should be adjusted
- C Equipment should be removed from inspection programs
- D No further mitigation is necessary

Which of the following statements is correct with regard to the results of quantitative analysis?

- A They normally provide an initial screening with which to rank units for attention.
- B They are usually numeric and should be comparable
- C They must be included in the documentation of any RBI evaluation
- D They are more accurate than the results of a qualitative analysis.

In RBI, residual factors for loss of containment include all of the following except:

- A Human Error
- B Unknown mechanisms of deterioration
- C Inspection efforts
- D Secondary effects from nearby units.

Compared to quantitative analysis, qualitative analysis using broad ranges generally requires:

- A A lower level of judgement, skill, and understanding.
- B Greater accuracy in data input to compensate for lower precision of the models
- C Higher level of judgment, skill, and understanding
- D Better training in understanding the impact of data quality

In RBI investigation, consequence analysis is intended to provide a measure of the:

- A Mitigations necessary to reduce risk.
- B Overall risk of a potential failure
- C Maximum liability for a failure
- D Significance of a potential failure.

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API API-580 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Risk-Based Inspection (RBI) Program Development: The API Risk Based Inspection exam evaluates the skills of Petrochemical inspectors and engineers about basic minimum elements to develop, implement, and maintain a RBI program.
Topic 2	<ul style="list-style-type: none">Guidance for Stakeholders: In this topic, the API-580 exam focuses on guidance for important stakeholders. These stakeholders are owner-users, designers of pressure-containing equipment, and operators.

Topic 3	<ul style="list-style-type: none"> • Inspection Program: Aspiring API petrochemical inspectors and engineers cover different aspects of Inspection Program. The topic focuses on the development and implementation of the Inspection Program.
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Certification Path

The API Risk Based Inspection certification path includes only one API-580 Certification Exam.

API Risk Based Inspection API-580 Exam

API Risk Based Inspection API-580 Exam is related to Risk Based Inspection Certifications. This exam validates the knowledge and skills of engineers, specialized inspectors other professionals across the entire petrochemical industry. Highly Specialized Inspectors and Engineers usually hold or pursue this certification and you can expect the same job role after completion of this certification.

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API Risk Based Inspection Professional Sample Questions (Q91-Q96):

NEW QUESTION # 91

Most probability assessments use a blend of what types of analytical approaches?

- A. Damage mechanisms and failure modes
- B. Likelihood and consequence of failure
- **C. Qualitative and quantitative analysis**
- D. Frequency and magnitude of events

Answer: C

Explanation:

API 580, Section 9.3.1 confirms:

"Most probability assessments use a blend of qualitative and quantitative approaches." This reflects that in practice, assessments exist on a continuum, combining qualitative insights (expert judgment) with quantitative data where available.

Reference: API 580, 2nd Edition (2016), Section 9.3.1 - Types of Probability Analysis

NEW QUESTION # 92

The probability of equipment item failure depends on the:

- A. total risk determined by the likelihood and consequence of individual failure modes.
- B. likelihood that deterioration mechanisms will produce rupture.
- C. maximum likelihood of any given outcome of events that may occur.
- **D. suitability of the equipment within the operating conditions.**

Answer: D

Explanation:

Per Section 5.5 of API 580:

"The mechanical integrity and functional performance of equipment depends on the suitability of the equipment to operate safely and

reliably under the normal and abnormal (upset) operating conditions to which the equipment is exposed." Also, Section 9.4 confirms PoF depends heavily on: a) The damage mechanisms and deterioration rates under current operating conditions; b) The ability of inspection to detect these issues before failure.

Thus, the equipment's suitability within its current and anticipated operating environment directly affects its PoF.

Reference: API 580, 2nd Edition (2016), Sections 5.5 and 9.4.1

NEW QUESTION # 93

Probability side of the risk equation is normally managed by

- A. Both a and b
- **B. Plant inspectors or inspection engineers**
- C. Maintenance planning engineers
- D. Process safety personnel

Answer: B

NEW QUESTION # 94

During data collection, it is important to stress that the precision of the data collected should be consistent with what aspect of the RBI assessment?

- A. Sensitivity
- B. Accuracy
- **C. Method**
- D. Risk thresholds

Answer: C

Explanation:

Per API 580, Section 7.2:

"The precision of the data should be consistent with the RBI method used. The individual or team should understand the precision of the data needed for the analysis before gathering it." This means that different RBI approaches (qualitative, semi-quantitative, quantitative) require different levels of precision.

Reference: API 580, 2nd Edition (2016), Section 7.2

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NEW QUESTION # 95

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

Answer: B

NEW QUESTION # 96

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