

API API-580 Questions and Start Preparation Today [2026]

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 Risk Based Inspection Professional Sample Questions (Q68-Q73):

NEW QUESTION # 68

_____ provides a consistent methodology for assessing the optimum combination of methods and frequencies.

- A. Hazop
- **B. RBI**
- C. Pha
- D. Rem

Answer: B

NEW QUESTION # 69

Risk reduction is typically accomplished using:

- A. results of inspection activities
- **B. mitigation activities**
- C. equipment history review
- D. changing fluid characteristics
- E. process control

Answer: B

Explanation:

According to API 580, risk reduction is primarily achieved through implementing mitigation activities that are designed to lower either the probability of failure (PoF), the consequence of failure (CoF), or both.

As stated in Section 10.1:

"Risk can be reduced by reducing the likelihood (probability) of failure, the consequence of failure, or both.

This is typically accomplished through mitigation activities such as inspection, process control, or equipment modification." This clearly confirms that "mitigation activities" is the most direct and encompassing method of achieving risk reduction in an RBI program. While the other options (like process control or inspection activities) may be forms of mitigation, they fall under the broader category of mitigation activities and are not the definitive general method.

Reference: API 580, 2nd Edition (2016), Section 10.1

NEW QUESTION # 70

_____ Depict ways in which the system failures represented in the event trees can occur.

- **A. Event trees**
- B. Fault trees
- C. Logic trees

Answer: A

NEW QUESTION # 71

RBI plans identify equipment that does not require inspection or some other form of mitigation because of the acceptable level of risk associated with the equipment's current operation. In this way, inspection and maintenance activities can be:

- A. eliminated for all low consequence equipment.
- B. shifted to more profitable needs in the plant.
- C. more focused and cost effective.
- D. conducted while the equipment is on-line instead of during turnarounds.

Answer: C

Explanation:

As stated in API 580, Introduction (page xi):

"The RBI plans also identify equipment that does not require inspection or some other form of mitigation because of the acceptable level of risk associated with the equipment's current operation. In this way, inspection and maintenance activities can be focused and more cost-effective." Options B, C, and D introduce concepts not aligned with the API definition. Option A correctly captures the intent and benefit of an RBI-based plan.

Reference: API 580, 2nd Edition (2016), Introduction, page xi

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NEW QUESTION # 72

For a typical inspection program, if excessive inspection is applied then,

- A. Level of risk may go up
- B. Level of risk remain the same
- C. Level of risk may go down

Answer: A

NEW QUESTION # 73

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