

# API-580 Latest Exam Forum | Exam API-580 Cram Review



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## API API-580 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>

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**Free PDF Quiz Newest API - API-580 - Risk Based Inspection Professional**

## Latest Exam Forum

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### API Risk Based Inspection Professional Sample Questions (Q47-Q52):

#### NEW QUESTION # 47

Which of the following statements is correct with regard to determining the probability of a specific consequence?

- A. It is independent of the probability of failure.
- B. Other credible events that could lead to it need not be considered.
- **C. The events leading to it should be considered.**
- D. It usually increases with the severity of the incident.

**Answer: C**

Explanation:

According to Section 11.2.1 of API 580:

"The probability of credible events leading up to the specific consequence should be factored into the probability of the specific consequence occurring." Additionally:

"It is important to understand this linkage between the POF and the probability of possible resulting incidents... The probability of a specific consequence is tied to the severity of the consequence and may differ considerably from the probability of the equipment failure itself." Option A is correct and emphasized directly in API 580.

Option B is incorrect because considering all credible events is essential.

Option C is incorrect: the probability of a consequence typically decreases with severity.

Option D is incorrect: the probability of consequence is linked to the probability of failure.

Reference: API 580, 2nd Edition (2016), Section 11.2.1 - Determination of the Probability of a Specific Consequence

#### NEW QUESTION # 48

If the probability and consequence combination (risk) is high enough to be unacceptable, then

- A. Amitigation action to predict or prevent the event isnot recommended
- B. Warrant to analyze risks involved
- **C. A mitigation action to predict or prevent the eventis recommended.**

**Answer: C**

#### NEW QUESTION # 49

\_\_\_\_\_ are the primary inputs into the probability of failure evaluation.

- **A. The deterioration mechanisms, rates and susceptibilities**
- B. Damage mechanisms and its severity
- C. Fluid toxicity and its concentration
- D. Loss of containment f fluid

**Answer: A**

#### NEW QUESTION # 50

Why is it important to understand the difference between RBI accuracy and RBI precision?

- A. RBI accuracy cannot be fully achieved with qualitative RBI analysis.
- B. RBI precision is more important than RBI accuracy.
- C. Quantitative RBI methods are more accurate than qualitative methods.

- D. The implied linkage between RBI accuracy and precision may not exist.

**Answer: D**

### Explanation:

According to Section 5.4 of API 580:

"Risk presented as a precise numeric value (as in a quantitative analysis) implies a greater level of accuracy....

However, the implied linkage of precision and accuracy may not exist because of the element of uncertainty that is inherent with probabilities and consequences." This clearly supports that Option D is correct. While quantitative methods appear precise, their accuracy may be affected by model limitations, uncertainty, and data variability. Therefore, understanding this distinction helps practitioners avoid overconfidence in the output of RBI tools.

Reference: API 580, 2nd Edition (2016), Section 5.4

## NEW QUESTION # 51

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

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

**Answer: A**

## NEW QUESTION # 52

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