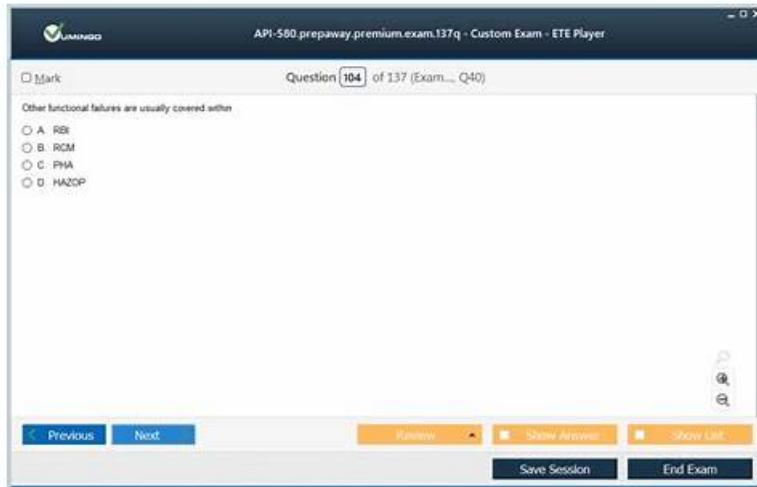


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## API Risk Based Inspection Professional Sample Questions (Q76-Q81):

### NEW QUESTION # 76

With regard to initial assumptions in an RBI analysis, which of the following statements is correct?

- A. Conservative consequence and probability estimates will be necessary to meet regulatory requirements.
- B. Consequence and probability estimates that are more conservative will result in less-intrusive inspections.
- C. Consequence and probability estimates that are too conservative can result in unnecessarily inflated calculated risks.
- D. Conservative consequence and probability estimates result in fewer mitigation needs.

**Answer: C**

Explanation:

API 580, Section 11.5 (Assumptions) explicitly warns:

"Caution is advised in being too conservative, as overestimating consequences and/or POF values will unnecessarily inflate the calculated risk values. Presenting over inflated risk values may mislead inspection planners, management, and insurers and can create a lack of credibility for the user and the RBI process." This confirms that excessive conservatism leads to inaccurate results, undermining the effectiveness and credibility of the RBI process.

Option B is incorrect; inflated risks lead to more-not fewer-intrusive actions.

Option C is misleading; conservatism isn't inherently a regulatory requirement.

Option D contradicts the fact that inflated risk leads to over-mitigation, not less.

Reference: API 580, 2nd Edition (2016), Section 11.5 - Assumptions

### NEW QUESTION # 77

Which of the following may make it impractical to reduce some risks to an acceptable level?

- A. Regulatory requirements
- B. Production needs
- C. Labor contracts
- D. Technology

**Answer: D**

Explanation:

As indicated in API 580 Section 11.8:

"Reduction of some risks to a lower level may not be practical due to technology and cost constraints. An as low as reasonably practical (ALARP) approach to risk management may be necessary for these items." Thus, technology limitations are explicitly cited as a reason why some risks cannot be feasibly reduced further.

Reference: API 580, 2nd Edition (2016), Section 11.8

### NEW QUESTION # 78

\_\_\_\_\_ curves are referred for the deterioration mechanism for carbon and low alloy steel materials.

- A. PH concentration curves
- B. Nelson curves
- C. Schmidt curves for sulfide corrosion

**Answer: B**

### NEW QUESTION # 79

Hazard identification in a RBI analysis generally focuses on identifiable failure mechanisms in the equipment (inspectable causes) but does not explicitly deal with

- A. Other potential failure resulting from events such as flammable fire due to leak from equipment
- B. Other potential failure scenarios resulting from events such as power S failures or human errors
- C. Environmental impact caused due to toxic release

**Answer: B**

## NEW QUESTION # 80

What must be developed in order to implement and sustain the RBI program?

- A. Risk mitigation actions to reduce highest risks
  - B. Inspection plans for all equipment and piping in the RBI program
  - C. A documented management system
  - D. Jurisdictional approval process

**Answer: C**

### Explanation:

According to API 580, Section 16.1:

"A documented management system to implement and sustain an RBI program shall be developed and typically would include... procedures covering implementation, maintenance and reassessment, roles /responsibilities, documented assumptions, timeframe for applicability, and more." This is a minimum program requirement and foundational to RBI integrity.

Reference: API 580, 2nd Edition (2016), Section 16.1

## NEW QUESTION # 81

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