

API-580 Exam Demo - API-580 Reliable Exam Online

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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 - D

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. - B
- 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. - C
- 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 - C
- 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. - D
- Risk reduction is:

- A Synonymous with risk management
 - B Synonymous with inspection optimization
 - C Part of risk management
 - D Achieved only by inspection - C
- The value of a qualitative approach is that:

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- Determine general damage mechanisms on uniform or localized loss thickness and explain the various types of Risked Based Inspection related to it.
- Knowledge of general damage mechanisms applicable to the industry and be able to identify their features and functions.
- Explore damage mechanisms on high temperature corrosion including oxidation, sulfidation, carburization and metal dusting.
- Understand refining industry damage mechanisms used in uniform or localized loss in thickness phenomena.

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API Risk Based Inspection Professional Sample Questions (Q15-Q20):

NEW QUESTION # 15

Process to find, list, and characterize elements of risk

- A. Risk estimation
- B. Risk evaluation
- **C. Risk identification**

Answer: C

NEW QUESTION # 16

Which of the following statements is accurate regarding data quality relative to the type of RBI assessment selected?

- **A. Data quality is equally important no matter what type of assessment is selected.**
- B. Data accuracy in qualitative RBI is not as important because risks are relative, not absolute.
- C. Data quality is more important for semi-quantitative assessments vs. qualitative assessments.
- D. Data validation is most important when quantitative RBI is being applied.

Answer: A

Explanation:

According to Section 7.3 of API 580:

"The data quality has a direct relation to the relative accuracy of the RBI analysis... Although the data requirements are quite different for the various types of RBI analysis, quality of input data is equally important no matter what approach to RBI is selected." This clearly establishes that regardless of whether a qualitative, semi-quantitative, or quantitative RBI method is chosen, the quality of data must remain consistently high to ensure meaningful risk assessments.

Reference: API 580, 2nd Edition (2016), Section 7.3

NEW QUESTION # 17

Qualitative consequence analysis of failure can be estimated separately for each unit, system, equipment group or individual equipment item.

- A. No basis required since it is qualitative
- **B. On the basis of expert knowledge and experience**
- C. On the basis of available data

- D. On the basis of process and environmental conditions

Answer: B

NEW QUESTION # 18

_____ is usually not the primary objective of a risk assessment, but it is frequently a side effect of optimization.

- A. Increasing frequency of inspection programs
- **B. Reducing inspection costs**
- C. Increasing inspection costs

Answer: B

NEW QUESTION # 19

Results of quantitative consequence analysis are usually expressed in

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

Answer: B

NEW QUESTION # 20

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