

# API-580<sup>Q&As</sup>

Risk Based Inspection Professional

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#### QUESTION 1

Probability of failure is normally expressed

- A. Just as details
- B. Mentioned in frequency
- C. Cannot be measured

Correct Answer: B

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#### QUESTION 2

Some failures have potentially serious consequences, but if the probability of the incident is low, then

- A. The risk may not warrant immediate action
- B. The risk may warrant immediate action
- C. The risk may warrant appropriate mitigation action

Correct Answer: A

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#### QUESTION 3

Risk presented in qualitative risk analysis as

- A. Precise numeric value
- B. Form of risk matrix
- C. Form of event tree and fault tree

Correct Answer: B

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#### QUESTION 4

The following assumption can be made that significantly impacts the calculated corrosion rate early in the equipment life

- A. If the base line thickness were not performed the nominal thickness may be used for the original thickness
- B. If original thickness not available, averaged thickness readings may be used
- C. If the original thickness not available, maximum thickness readings may be used

Correct Answer: A

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#### QUESTION 5

The type of failure mode that likely to occur due to pitting

- A. Small hole sized leaks
- B. Small holes to ruptures
- C. Cracks
- D. Catastrophic rupture

Correct Answer: A

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#### QUESTION 6

When in accurate or insufficient failure data exists on the specific equipment item for quantative probability of failure analysis then

- A. General industry, company or manufacturer failure data used
- B. Process hazard analysis failure data may be used
- C. Process and toxic concentration analysis may be used

Correct Answer: A

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#### QUESTION 7

The ability to state the rate of deterioration precisely is affected by the following except

- A. By equipment complexity
- B. Typeofdeteriorationmechanism, processand metallurgical variations
- C. Inaccessibilityfor inspection, limitations ofinspection andtest methods
- D. Lack of coverage of an area subject to deterioration
- E. None of the above

Correct Answer: C

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#### QUESTION 8

Is key to performing deterioration mechanism identification

- A. Understanding equipment operation and the interaction withthe chemical and mechanical environment
- B. Understanding equipment operation and process upsets

C. Understanding equipment operation and its safety protective measures

Correct Answer: A

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**QUESTION 9**

Generally, a qualitative analysis using broad ranges requires a \_\_\_\_\_ from the user than a quantitative approach.

- A. Higher level of judgment, skill and understanding
- B. Lower level of judgment, skill and understanding

Correct Answer: A

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**QUESTION 10**

The following types of pressurized equipment and associated components covered by rbi

- A. Rotating equipment
- B. Turbines
- C. Pressurized pumps

Correct Answer: A

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**QUESTION 11**

\_\_\_\_\_ delineate initiating events and combinations of system

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

Correct Answer: A

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**QUESTION 12**

Rp 580 is intended to promote consistency and quality in identification, assessment and management of risks pertaining to....., which could lead to.....

Correct Answer: Material deterioration, loss of containment

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**QUESTION 13**

Coordinated activities to direct and control an organization with regard to risk.

- A. Risk management
- B. Risk evaluation
- C. Risk control

Correct Answer: A

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#### **QUESTION 14**

Following are not the residual risk factors for loss of containment.

- A. Human error
- B. Natural disasters
- C. Fundamental limitations of inspection method
- D. Toxic fluid containment

Correct Answer: D

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#### **QUESTION 15**

Rbimay include methodologiestoassess the effectiveness ofthe management systems in maintaining

- A. Mechanical integrity
- B. Total asset integrity
- C. Plant integrity

Correct Answer: A

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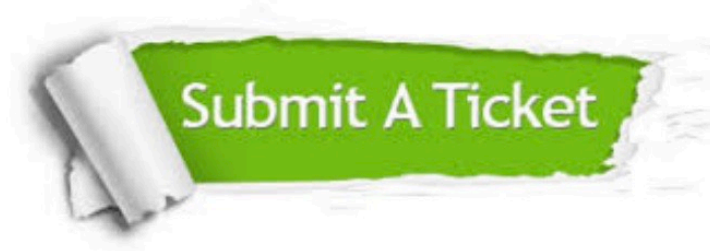
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