API-580 Practice Exam Questions, API-580 PDF VCE

API 580 Practice Questions 01

1) A physical condition or a release of a hazardous material that could result from component failure and result in human injury or death, loss or damage, or environmental degradation.

   A. Hazard
   B. Loss
   C. Failure

2) Limitation of any negative consequence or reduction in probability of a particular event.

   A. Mitigation
   B. Reduction
   C. Residual

3) Methods that use engineering judgment and experience as the bases for the analysis of probabilities and consequences of failure.
   A. Qualitative risk assessment
   B. Relative risk
   C. Nominal risk

4) An analysis that identifies and delineates the combinations of events estimates the frequency of occurrence for each combination and estimates the consequences.

   A. Quantitative risk analysis
   B. Qualitative risk analysis
   C. Process hazard analysis

5) ....uses logic models depicting combinations of events

   A. Quantitative risk analysis
   B. Qualitative risk analysis
   C. Process hazard analysis

6) Quantitative risk analysis logic models generally consist of ....and ....

   A. Event trees and fault trees
   B. Product trees and loss trees
   C. Likelihood trees and consequence trees

7) ....delineate initiating events and combinations of system successes and failures

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

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API Risk Based Inspection Professional Sample Questions (Q77-Q82):

NEW QUESTION # 77
As indicated in API RP 580, one essential element of an RBI program includes:

- A. documented method of COF determination.
- B. consideration of all possible damage mechanisms.
- C. avoidance of catastrophic loss and fatalities.
- D. the reduction of risk associated with loss of containment.

Answer: D

Explanation:
Section 1.3 of API 580 explicitly states:
"The RBI process is focused on maintaining the mechanical integrity of pressure equipment items and minimizing the risk of loss of containment due to deterioration." This confirms that reducing the risk associated with loss of containment is a fundamental goal and essential element of an RBI program. The other options:
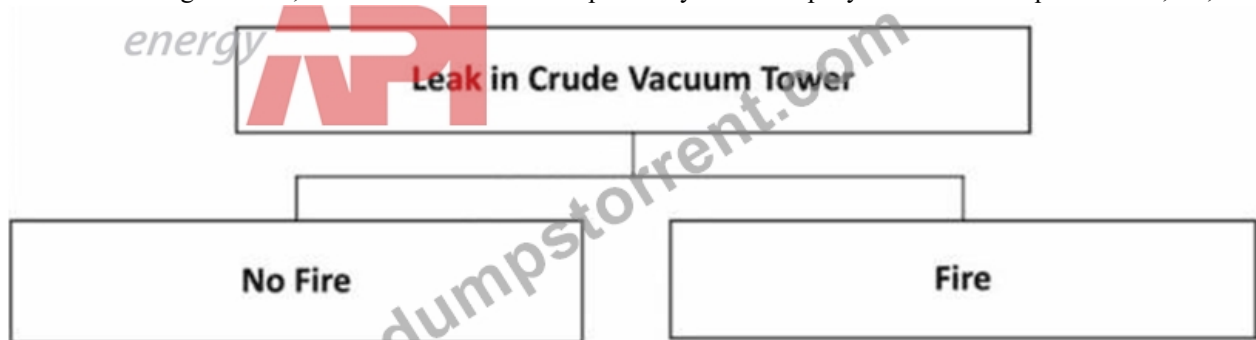A is a broad safety goal, not an RBI-specific essential element.
B is a component of methodology, not the goal itself.
C is incorrect-only credible, not all possible, damage mechanisms are required.
Reference: API 580, 2nd Edition (2016), Section 1.3

NEW QUESTION # 78
Given the following event tree, what is the risk of a fire if the probability is 0.00001 per year and the consequence is $50,000,000?

- A. $500/year
- B. $5,000/year
- C. $5,000,000/year
- D. $50,000,000/year

Answer: A

Explanation:
In RBI, risk is typically calculated using the basic formula:
Risk = Probability of Failure (PoF) × Consequence of Failure (CoF)
Based on the question:
Probability of Fire = 0.00001 per year
Consequence of Fire = $50,000,000
Applying the formula:
Risk = 0.00001 × $50,000,000
Risk = $500/year
This is the annualized risk estimate associated with the fire event originating from a leak in the crude vacuum tower.
As per API 580, Section 10.2.1:
"A common approach used to express risk is to multiply the probability of failure by the consequence of failure. This simple equation is useful for determining the relative risk ranking among equipment items." And in Section 10.3.1:
"Risk can be expressed in various units such as monetary value per year (e.g., $/year)... This allows for comparison of risk levels in economic terms." Hence, the correct calculated value, $500/year, corresponds to option A.
Reference: API 580, 2nd Edition (2016), Sections 10.2.1 and 10.3.1

NEW QUESTION # 79

Results of quantitative consequence analysis are usually expressed in

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

Answer: A

NEW QUESTION # 80

In general the probability of failure is determined by

- **A. Deterioration mechanism**
- B. A& B
- C. Effectiveness of inspection program
- D. Consequence detailed

Answer: A

NEW QUESTION # 81

Why is it important to identify the risk drivers in the RBI process?

- A. To ensure that the most effective inspection plans are implemented
- B. To ensure that the right resources are applied for reducing consequences of risk
- **C. To enable development of effective risk mitigation strategies**
- D. To avoid having any loss of containment that might have catastrophic results

Answer: C

Explanation:
API 580 emphasizes the importance of identifying risk drivers as part of a systematic method to manage risks:
"Development of an appropriate inspection program to address key risk drivers. A method to systematically manage risks associated with the operation of process equipment." Understanding risk drivers is necessary to target mitigation actions effectively and to ensure that resources are allocated based on what contributes most to the risk.
Reference: API 580, 2nd Edition (2016), Section 5.3.2
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NEW QUESTION # 82

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