

API-580 Test Papers - API-580 PDF Question

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 ofand
 - 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

Unmitigated risk is defined as the:

- A. difference between absolute risk and relative risk.
- B. risk that cannot be mitigated.
- **C. risk prior to mitigation activities.**
- D. area below the ISO risk line.

Answer: C

Explanation:

According to API 580's glossary of terms:

"Unmitigated risk: The risk prior to mitigation activities."

This definition is also applied in Section 5.6.2 where RBI plans must address unmitigated risk and propose mitigation strategies if it is deemed unacceptable.

Other options are either incorrect interpretations or irrelevant to RBI methodology.

Reference: API 580, 2nd Edition (2016), Section 3.1.63 and 5.6.2

NEW QUESTION # 78

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

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

Answer: B

Explanation:

Explanation/Reference:

NEW QUESTION # 79

Effective inspection program can be derived for RBI from

- A. Inspection frequency
- **B. All the above**
- C. Proper NDE method best suited for deterioration mechanism
- D. Inspection coverage

Answer: B

NEW QUESTION # 80

FILL BLANK

RP 580 significantly targeted at the application of RBI in the _____ and _____ industry

Answer:

Explanation:

hydrocarbon, chemical process

NEW QUESTION # 81

Once a credible damage mechanism(s) has been identified, the associated failure mode should also be identified. An example of a failure mode is:

- A. weld undercut
- **B. pit-to-leak**
- C. localized thinning
- D. chloride cracking

Answer: B

Explanation:

As per API 580, Section 8.3:

"Once a credible damage mechanism(s) has been identified, the associated failure mode should also be identified. For example, local thinning could lead to a pinhole leak in the pressure-containing boundary." The example "pit-to-leak" accurately reflects a transition from a damage mechanism (pitting corrosion) to a failure mode (leak). Options B and C are damage modes or mechanisms, and D is a fabrication defect-not a failure mode.

Reference: API 580, 2nd Edition (2016), Section 8.3

NEW QUESTION # 82

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