

# API API-580 PDF Questions Format

## **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 API-580 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Guidance for Stakeholders: In this topic, the API-580 exam focuses on guidance for important stakeholders. These stakeholders are owner-users, designers of pressure-containing equipment, and operators.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Inspection Program: Aspiring API petrochemical inspectors and engineers cover different aspects of Inspection Program. The topic focuses on the development and implementation of the Inspection Program.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Risk-Based Inspection (RBI) Program Development: The API Risk Based Inspection exam evaluates the skills of Petrochemical inspectors and engineers about basic minimum elements to develop, implement, and maintain a RBI program.</li></ul>

>> Practice API-580 Questions <<

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### Difficulty in writing API-580 Exam

This exam is very difficult especially for those who have not on the job experience as an API Risk Based Inspection. Candidates can not pass this exam with only taking courses because courses do not provide the knowledge and skills that are necessary to pass this exam. BraindumpsPrep is the best platform for those who want to pass Risk Based Inspection with good grades in no time. BraindumpsPrep provides the latest **API-580 exam dumps** that will immensely help candidates to get good grades in their final API-580 exam. BraindumpsPrep is one of the best study sources to provide the most updated **API-580 Exam Dumps** with our API-580 Exam Questions Pdf. Candidate can rest guaranteed that they will pass their API-580 Exam on the first attempt. We will also save candidates valuable time. BraindumpsPrep Dumps help to pass the exam easily. Candidates can get all real questions from BraindumpsPrep. One of the best parts is we also provide most updated API-580 Exam study materials and we also want a candidate to be able to access study materials easily whenever they want. So, We provide all our API-580 exam questions in a very common PDF format that is accessible from all devices.

### API Risk Based Inspection Professional Sample Questions (Q73-Q78):

#### NEW QUESTION # 73

Which mitigation system most effectively minimizes community exposure to a significant release of an acidic water-soluble vapor cloud?

- A. Blast resistance construction
- B. Toxic scrubbers
- C. Acid detectors
- D. **Water curtain**

**Answer: D**

Explanation:

API 580, Section 13.11 states:

"Water curtains mitigate water-soluble vapor clouds by absorption as well as dilution... Early activation is required to achieve significant risk reduction. The curtain should preferably be between the release location and ignition sources or locations where people are likely to be present." Toxic scrubbers are used for venting or building protection, but water curtains directly mitigate dispersion of water-soluble acidic clouds in open areas.

Reference: API 580, 2nd Edition (2016), Section 13.11

#### NEW QUESTION # 74

The risk prior to mitigation activities

- A. Known risk
- B. Mitigated risk
- C. **Unmitigated risk**

**Answer: C**

#### NEW QUESTION # 75

The risk assessment programme which focuses on process unit design and operating practices and their adequacy given the unit's current or anticipated operating conditions

- A. RBI
- B. PHA
- C. HAZOP
- D. RCM

**Answer: C**

#### **NEW QUESTION # 76**

In the determination of risk, what values are often used when COF and/or POF data are not available?

- A. Sensitivity analyses
- B. Similar losses reported by insurance companies or jurisdictions
- C. Estimates of total risk by subject matter experts
- D. Assumptions or estimates of input

**Answer: D**

Explanation:

Section 11.5 of API 580 clearly states:

"Assumptions or estimates of input values are often used when consequence and/or POF data are not available." This allows an RBI team to proceed with analysis in the absence of complete data while noting that all assumptions must be documented and agreed upon to avoid misrepresentation.

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

#### **NEW QUESTION # 77**

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

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

**Answer: A**

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

#### **NEW QUESTION # 78**

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