

API API-580 Latest Exam Notes - New API-580 Test Tips



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API API-580 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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.
Topic 3	• 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.

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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. Itcertmaster is the best platform for those who want to pass Risk Based Inspection with good grades in no time. Itcertmaster provides the latest **API-580 exam dumps** that will immensely help candidates to get good grades in their final API-580 exam. Itcertmaster 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. Itcertmaster Dumps help to pass the exam easily. Candidates can get all real questions from Itcertmaster. 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 (Q29-Q34):

NEW QUESTION # 29

The probability of equipment item failure depends on the:

- A. maximum likelihood of any given outcome of events that may occur.
- B. likelihood that deterioration mechanisms will produce rupture.
- **C. suitability of the equipment within the operating conditions.**
- D. total risk determined by the likelihood and consequence of individual failure modes.

Answer: C

Explanation:

Per Section 5.5 of API 580:

"The mechanical integrity and functional performance of equipment depends on the suitability of the equipment to operate safely and reliably under the normal and abnormal (upset) operating conditions to which the equipment is exposed." Also, Section 9.4 confirms PoF depends heavily on: a) The damage mechanisms and deterioration rates under current operating conditions; b) The ability of inspection to detect these issues before failure.

Thus, the equipment's suitability within its current and anticipated operating environment directly affects its PoF.

Reference: API 580, 2nd Edition (2016), Sections 5.5 and 9.4.1

NEW QUESTION # 30

The probability of failure, when coupled with the associated consequence of failure (cof) (see section 11) will determine _____ associated with the equipment item,

- A. Residual risk
- B. Ranking
- **C. Operating risk**

Answer: C

NEW QUESTION # 31

In RBI analysis, dividing process units into groups of equipment that have common characteristics is:

- A. not permitted unless equipment is in identical service.
- B. to be avoided because every equipment item is unique.
- **C. useful as a means of screening together and saving time.**
- D. useful only for common types of equipment.

Answer: C

Explanation:

API 580, Section 6.3.5 states:

"It is often advantageous to group equipment within a process unit into systems, loops, or circuits where common environmental operating conditions exist... By dividing a process unit into systems, the equipment can be screened together, saving time compared to treating each piece of equipment separately." Grouping allows for more efficient screening and risk prioritization without needing to analyze each item in isolation, provided the conditions are similar.

Reference: API 580, 2nd Edition (2016), Section 6.3.5

NEW QUESTION # 32

_____ are often necessary to establish susceptibility of equipment to stress corrosion cracking.

- A. Literature, expert opinion and experience
- B. Cracking mechanisms
- C. Damage mechanisms
- D. Fluid toxicity and its constituents

Answer: A

NEW QUESTION # 33

Through _____, inspection activities are focused on higher risk items and away from lower risk items.

- A. REM
- **B. PHA**
- C. HAZOP
- D. RBI

Answer: B

NEW QUESTION # 34

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