

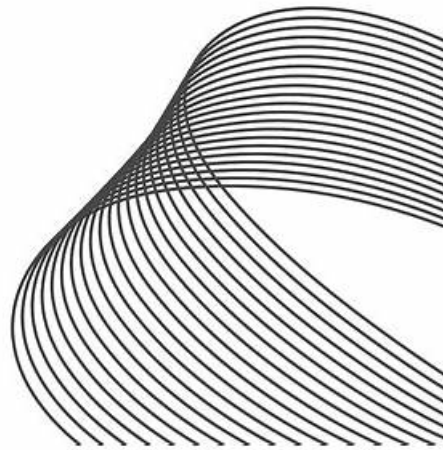
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API-580 Exam topics

Candidates must know the exam topics before they start of preparation. Because it will really help them in hitting the core. Our **API-580 exam dumps** will include the following topics:

- Knowledge of general damage mechanisms applicable to the industry and be able to identify their features and functions.
- Possess a general background on the scope, organization and use of API 580 and be able to review the standards and other references related to it.
- Identify the various mechanical and metallurgical failure mechanisms such as brittle fracture, steam blanketing, stress rupture, cracking, thermal shock, fatigue and corrosion.
- Explore damage mechanisms on high temperature corrosion including oxidation, sulfidation, carburization and metal dusting.
- Explore refining industry damage mechanisms for environment assisted cracking and be able to identify the other types of mechanisms.
- Understand refining industry damage mechanisms used in uniform or localized loss in thickness phenomena.

API Risk Based Inspection Professional Sample Questions (Q22-Q27):

NEW QUESTION # 22

In process plants are established to detect and evaluate deterioration due to in service operation.

- **A. Inspection and testing programs**
- B. Preventive maintenance programs
- C. In-service inspection programs
- D. Condition monitoring programs

Answer: A

NEW QUESTION # 23

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

- A. avoidance of catastrophic loss and fatalities.
- B. consideration of all possible damage mechanisms.
- C. documented method of COF determination.
- **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 # 24

In RBI analysis, it is important to link the damage mechanism to the most likely resulting:

- A. probability of failure.
- **B. failure mode.**
- C. harmful event.
- D. consequence.

Answer: B

Explanation:

According to API 580, Section 9.4.3:

"It is important to link the damage mechanism to the most likely resulting failure mode. For example:

a) pitting generally leads to small-hole-sized leaks;

b) stress corrosion cracking can develop into small through-wall cracks or in some cases rupture..." This highlights that identifying the specific failure mode (e.g., leak, rupture) related to the damage mechanism is critical for accurate probability and consequence analysis.

Reference: API 580, 2nd Edition (2016), Section 9.4.3

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NEW QUESTION # 25

Following is the unit of measure of consequence that is least developed among those currently used for RBI assessment.

- A. Environmental damage
- B. Cost
- C. Safety
- D. Affected area

Answer: A

NEW QUESTION # 26

Which of the following constitutes a failure of equipment?

- A. Loss of containment
- B. Corrosion beyond the corrosion allowance
- C. End of service life and time to replace
- D. Fire or explosion

Answer: A

Explanation:

As per API 580, failure is typically defined in terms of a breach in the pressure boundary - most clearly indicated by loss of containment. In Section 5.2, API 580 explains the fundamental focus of RBI:

"One objective of RBI is to determine what incident could occur (consequence) in the event of an equipment failure and how likely (probability) it is that the incident could happen. For example, if a pressure vessel subject to damage from corrosion under insulation develops a leak, a variety of consequences could occur." This leak constitutes a loss of containment and is therefore categorized as a failure.

Other options are not necessarily defined as equipment failures:

B (corrosion beyond allowance) is degradation, but failure only occurs if it breaches containment.

C (end of service life) is a lifecycle condition, not a failure by definition.

D (fire or explosion) are consequences of a failure, not the failure itself.

Reference: API 580, 2nd Edition (2016), Section 5.2

NEW QUESTION # 27

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