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The desktop-based practice exam is customizable, tracks your progress, and creates a real Corrosion and Materials Professional (API-571) exam environment. This software works offline on Windows computers. The web-based practice exam is similar to the desktop-based practice exam and can be taken on any browser without needing to install separate software. Moreover, the web-based Corrosion and Materials Professional (API-571) practice exam is also compatible with all operating systems.

## API-571 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-571 exam dumps** will include the following topics:

- Determine general damage mechanisms on uniform or localized loss thickness and explain the various types of corrosion related to it.
- Possess a general background on the scope, organization and use of API 571 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.
- Understand refining industry damage mechanisms used in uniform or localized loss in thickness phenomena.
- Explore damage mechanisms on high temperature corrosion including oxidation, sulfidation, carburization and metal dusting.
- Knowledge of general damage mechanisms applicable to the industry and be able to identify their features and functions.

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## API-571 Exam Success & Exam API-571 Guide

The API API-571 practice test software also keeps a record of attempts, keeping users informed about their progress and allowing them to improve themselves. This feature makes it easy for API-571 desktop-based practice exam software users to focus on their mistakes and overcome them before the original attempt. Overall, the Windows-based Corrosion and Materials Professional (API-571) practice test software has a user-friendly interface that facilitates candidates to prepare for the API API-571 exam without facing technical issues.

## API Corrosion and Materials API-571 Exam

API Corrosion and Materials API-571 Exam is related to Advanced Corrosion & Materials Professional Certifications. This exam validates the knowledge and skills of corrosion engineers, corrosion processes among specialized inspectors, chemical engineers and other professionals across the entire petrochemical industry. Highly Specialized Inspectors, Corrosion Engineers and Chemical Engineers usually hold or pursue this certification and you can expect the same job role after completion of this certification.

## API Corrosion and Materials Professional Sample Questions (Q24-Q29):

### NEW QUESTION # 24

Which of these materials exhibit an endurance limit below which fatigue cracking will not occur?

- A. 400 Series SS
- B. Carbon steel
- C. None of the above
- D. 300 Series SS

**Answer: B**

### NEW QUESTION # 25

Which of the following is most susceptible to chloride stress corrosion cracking?

- A. Inadequately heat-treated 1.25 Cr-0.5 Mo low-alloy steel
- B. Non-postweld heat-treated carbon steel
- C. Non-stress-relieved 304 stainless steel
- D. Non-stress-relieved admiralty brass U-bends

**Answer: C**

Explanation:

API RP 571 on Chloride Stress Corrosion Cracking (Cl-SCC) clearly states:

"Austenitic stainless steels such as 304 and 316 are highly susceptible to Cl-SCC when subjected to tensile stress and exposed to chloride-bearing environments."

"Susceptibility is greatest in non-stress-relieved weldments or cold-worked areas." Brass and carbon steels are not typical Cl-SCC candidates; low alloy steels such as 1.25Cr-0.5Mo are also not commonly affected.

Thus, option C is the correct answer.

### NEW QUESTION # 26

Which of the following materials is not susceptible to high temperature hydrogen attack?

- A. All of the above
- B. 5 Cr-1Mo
- C. 9Cr-1Mo
- D. 300 Series SS

**Answer: A**

### NEW QUESTION # 27

Amine corrosion occurs principally on what class of materials?

- A. Carbon Steels
- B. Low Alloy Steels
- C. Duplex Stainless Steels
- D. Austenitic Stainless Steels

**Answer: A**

Explanation:

API RP 945, dedicated to environmental cracking in amine units, states:

"Carbon steel is widely used in amine systems but is particularly susceptible to localized corrosion, under- deposit corrosion, and stress corrosion cracking, especially in high-pressure or rich amine environments."

"Proper control of amine quality, oxygen ingress, and temperature is critical to avoid accelerated corrosion in carbon steel equipment." Thus, carbon steels are the most commonly affected materials, making option C correct.

#### NEW QUESTION # 28

Conditions favoring carburization include a high gas phase carbon activity and \_\_\_\_\_ oxygen potential.

- A. Low
- B. Negative
- C. Positive
- D. High

**Answer: A**

#### NEW QUESTION # 29

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