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The API API-571 certification exam offers a great opportunity to advance your career. With the Corrosion and Materials Professional certification exam beginners and experienced professionals can demonstrate their expertise and knowledge. After passing the Corrosion and Materials Professional (API-571) exam you can stand out in a crowded job market. The Corrosion and Materials Professional (API-571) certification exam shows that you have taken the time and effort to learn the necessary skills and have met the standards in the market.

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:

- 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 refining industry damage mechanisms for environment assisted cracking and be able to identify the other types of mechanisms.

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API Corrosion and Materials Professional Sample Questions (Q100-Q105):

NEW QUESTION # 100

A form of fatigue cracking in which cracks develop under the combined effects of cyclic loading and corrosion is called _____. Cracking often initiates at stress concentrations such as a pit in the surface.

- A. Stress fatigue
- B. Cyclic cracking
- C. Stress cracking
- D. Corrosion fatigue

Answer: D

NEW QUESTION # 101

In piping and equipment, creep cracking can occur where high metal temperatures and _____ occur together. Creep cracking, once initiated, can progress rapidly.

- A. Stress risers
- B. Velocities
- C. None of the above
- D. Pressures

Answer: A

NEW QUESTION # 102

(A section of vacuum bottom outlet piping is being replaced because of naphthenic acid corrosion (NAC). Which of the following potential replacement materials would be most resistant to NAC?)

- A. Titanium
- B. 9 Cr-1 Mo steel
- C. 321 stainless steel
- D. 317 stainless steel

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Naphthenic Acid Corrosion (NAC) occurs in high-temperature refinery streams (typically 450-750 °F / 230-400 °C) containing organic acids. According to API RP 571, NAC is particularly aggressive toward carbon steels and low-alloy steels, and resistance improves with increasing chromium and molybdenum content, but is best with titanium.

Titanium exhibits exceptional resistance to NAC due to the formation of a stable, protective oxide film that is not attacked by naphthenic acids. API RP 571 identifies titanium as one of the most resistant materials available for severe NAC environments.

Why the other options are less suitable:

Option B (9 Cr-1 Mo steel) has limited resistance and is still susceptible at higher TAN and velocities.

Option C (317 stainless steel) offers improved resistance but can still experience attack under severe NAC conditions.

Option D (321 stainless steel) has lower molybdenum content than 317 SS, making it less resistant.

API RP 571 explicitly notes that titanium provides superior resistance compared to stainless steels and Cr-Mo alloys in NAC service.

Referenced Documents (Study Basis):

API RP 571 - Section on Naphthenic Acid Corrosion

API Corrosion and Materials Selection Study Guide

NEW QUESTION # 103

The effects of hydrogen embrittlement _____ with _____ temperatures.

- A. Increase, decreasing
- B. Increase, increasing

- C. Decrease, increasing
- D. Decrease, decreasing

Answer: C

NEW QUESTION # 104

With sour water corrosion, at a given pressure, the H₂S concentration in the sour water _____ as temperatures _____.

- A. Increases, decreases
- B. Decreases, increases
- C. Decreases, decreases
- D. Increases, increases

Answer: B

NEW QUESTION # 105

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