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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.
- 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.
- Understand refining industry damage mechanisms used in uniform or localized loss in thickness phenomena.
- Determine general damage mechanisms on uniform or localized loss thickness and explain the various types of corrosion related to it.

>> API-571 Exam Preparation <<

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

NEW QUESTION # 24

Which of these cast irons are not susceptible to graphitic corrosion?

- A. White cast iron
- B. Black Cast iron

- C. None of the above
- D. Gray cast iron

Answer: A

NEW QUESTION # 25

_____ is a form of carburization resulting in accelerated localized pitting which occurs in carburizing gases and/or process streams containing carbon and hydrogen. Pits usually form on the surface and may contain soot or graphite dust.

- A. Hydrate corrosion
- B. Spheroidization
- C. Metal dusting
- D. Carbide corrosion

Answer: C

NEW QUESTION # 26

A form of mechanical fatigue in which cracks are produced as a result of dynamic loadings is _____.

- A. Vibration-induced cracking
- B. Spheroidization
- C. Stress cracking
- D. Fatigue cracking

Answer: A

NEW QUESTION # 27

Which of the following will be most effective in finding sour water corrosion?

- A. Guided wave ultrasonic testing
- B. Spot ultrasonic testing
- C. Angle beam ultrasonic testing
- D. Profile radiographic testing

Answer: D

Explanation:

API RP 571 notes under Sour Water Corrosion:

"Localized thinning or under-deposit corrosion in sour water services is best detected by profile radiography, which provides a visual comparison of wall thickness over a length of pipe."

"This technique is especially useful for assessing localized metal loss due to under-deposit attack or flow regime effects." (Reference: API RP 571, Section 4.3.2.3 - Sour Water Corrosion) Hence, profile radiographic testing is most effective, making option B correct.

NEW QUESTION # 28

All piping and equipment exposed to HF acid at any concentration with hardness levels above _____ are subject to hydrogen stress cracking.

- A. 210 BHN
- B. 237 BHN
- C. 227 BHN
- D. 200 BHN

Answer: B

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