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API **API-571 Exam Questions** (Corrosion and Materials)

Questions & Answers
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API API-571 Exam Syllabus Topics:

Topic	Details
Topic 1	• Damage Mechanisms
Topic 2	• Refining Management
Topic 3	• Affecting Fixed Equipment

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API-571 Exam Reference

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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 (Q76-Q81):

NEW QUESTION # 76

Key factors affecting thermal fatigue are the magnitude of the temperature and the _____.

- A. Alloy composition
- B. Pressure
- **C. Number of cycles**
- D. Stress

Answer: C

NEW QUESTION # 77

_____ testing is the best method to determine the susceptibility of a material to hydrogen stress cracking.

- **A. Hardness**
- B. SWUT
- C. Acoustic
- D. AUT

Answer: A

NEW QUESTION # 78

High strength steels are susceptible to LME when they come in contact with molten _____.

- A. Lead
- B. Cadmium
- C. Zinc
- **D. Both A and C**

Answer: D

NEW QUESTION # 79

Temper embrittlement is a metallurgical change that is:

- A. Readily apparent and can be confirmed through metallography
- B. Readily apparent and can be confirmed through impact testing
- C. Not readily apparent but can be confirmed through impact testing
- D. Not readily apparent but can be confirmed through tension testing

Answer: C

Explanation:

API RP 571 describes temper embrittlement as a subtle metallurgical change that reduces impact toughness without obvious macrostructural change:

"Temper embrittlement is not readily apparent by visual or standard tensile testing. It is confirmed by Charpy impact testing which measures toughness at low temperatures."

"It typically affects Cr-Mo steels exposed to intermediate temperatures (650°F to 1100°F) for extended times." (Reference: API RP 571, Section 4.2.1.4 - Temper Embrittlement) Thus, the condition is not visually or physically apparent, but is confirmed through impact testing, making option D correct.

NEW QUESTION # 80

All piping and equipment exposed to HF acid at any concentration with hardness levels above the recommended limit (237 BHN) are subject to _____.

- A. Hydrogen stress cracking
- B. Chloride stress cracking
- C. Sulfide stress cracking
- D. None of the above

Answer: A

NEW QUESTION # 81

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