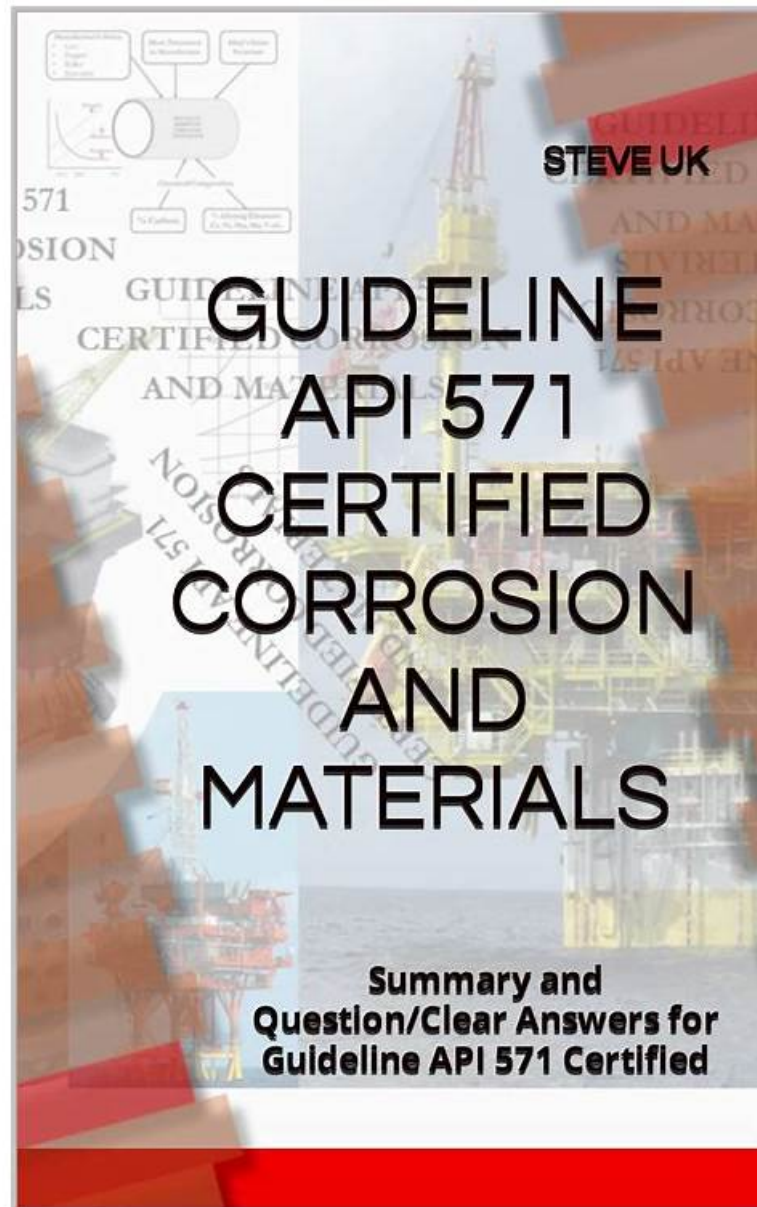


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Who should take the API-571 exam

The API Corrosion and Materials API-571 Exam certification is an internationally-recognized validation that identifies persons who earn it as possessing skilled as Advanced Corrosion & Materials Professional Certification. If a candidate wants significant improvement in career growth needs enhanced knowledge, skills, and talents. The API Corrosion and Materials API-571 Exam

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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:

- 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.
- Determine general damage mechanisms on uniform or localized loss thickness and explain the various types of corrosion related to it.
- Explore refining industry damage mechanisms for environment assisted cracking and be able to identify the other types of mechanisms.
- Explore damage mechanisms on high temperature corrosion including oxidation, sulfidation, carburization and metal dusting.

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 (Q104-Q109):

NEW QUESTION # 104

Localized corrosion due to the concentration of caustic or alkaline salts that usually occurs under evaporative conditions is _____.

- A. None of the above
- B. Carbonate corrosion
- **C. Caustic corrosion**
- D. Alkaline corrosion

Answer: C

NEW QUESTION # 105

Naphthenic acid corrosion is most severe in _____ flow; in areas of high velocity or turbulence and in distillation towers where hot vapors condense to form liquid phase droplets.

- **A. Two phase**
- B. Negative phase
- C. Single phase
- D. Three phase

Answer: A

NEW QUESTION # 106

Amine cracking has been reported down to ambient temperatures with some amines. _____ temperatures and stress levels _____ the likelihood and severity of cracking.

- A. Increasing, reduces
- **B. Increasing increases**
- C. Decreasing increases
- D. Increasing, decreases

Answer: B

NEW QUESTION # 107

Corrosion rates of carbon steel pipe in sulfuric acid service increase significantly:

- **A. At acid concentrations below 65%**
- B. At acid concentrations above 95%
- C. In stagnant conditions
- D. At acid concentrations above 65%

Answer: A

Explanation:

According to API RP 571, under Sulfuric Acid Corrosion:

"The most aggressive corrosion typically occurs below 65% H₂SO₄, particularly between 20% to 50% concentration range."

"Above 95% concentration, sulfuric acid becomes less corrosive to carbon steel due to its dehydrating nature."

"Dilute sulfuric acid is highly ionized and conducts electricity well, increasing corrosion rates." (Reference: API RP 571, Section 4.3.3.2 - Sulfuric Acid Corrosion) Hence, the most severe corrosion occurs below 65% concentration, making option B the accurate answer.

NEW QUESTION # 108

_____ is most likely found in hard weld and heat-affected zones and in high strength components.

- A. SOHIC
- B. HIC
- C. Blistering
- **D. SSC**

Answer: D

NEW QUESTION # 109

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