

# Pass Guaranteed API-571 - Corrosion and Materials Professional Fantastic Discount

## API 571 Corrosion and Materials Professional.

API 571 - Damage Mechanisms Affecting Fixed Equipment in the Refining and Petrochemical Industries.

Preparatory Training: 30th November, 2015 to 05th December, 2015. [Saturday]

Days: 06

Duration: 8 x 5 = 40 to 48 hours.

Training Planned December First Week:

Examination Dates as below:

Examination Window: December 9 - 23, 2015 571

Application Deadline: October 14, 2015

Location: THE LALITH, MUMBAI.



Damage Mechanisms Affecting Fixed Equipment in the Refining and Petrochemical Industries.

Training Instructor

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Dr. Anand Sawroop Khanna hails from Delhi. In 1974 he completed a training of one year at BARC. He was posted as a Research Scientist in Fast Breeder Test Reactor Project in Tamilnadu. A doctorate in Metallurgy

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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.

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## API Corrosion and Materials Professional Sample Questions (Q96-Q101):

### NEW QUESTION # 96

Which of the following are susceptible to thermal fatigue?

- A. SA-53 Gr B
- B. SA-182 Gr B
- C. All of the above
- D. SA-516-70

**Answer: C**

### NEW QUESTION # 97

Which of the following damage mechanisms are most closely related because they occur in similar environments?

- A. Carburization and metal dusting
- B. Fuel ash corrosion and flue gas dew-point corrosion
- C. Oxidation and sulfidation
- D. Carbonate corrosion and CO<sub>2</sub> corrosion

**Answer: C**

Explanation:

According to API RP 571:

"Oxidation is the reaction of metal and oxygen to form oxides. It generally occurs in high temperature environments with excess oxygen."

"Sulfidation is a high temperature corrosion mechanism that occurs due to interaction between sulfur-containing compounds and metal surfaces, forming metal sulfides. Like oxidation, sulfidation occurs in environments above 500 °F (260 °C)."

"Both oxidation and sulfidation can occur concurrently, particularly in mixed environments of oxygen and sulfur." (Reference: API RP 571, Sections 5.1.1 and 5.1.3 - Oxidation & Sulfidation) These two mechanisms are thermally activated and occur in elevated temperature conditions found in heaters, furnaces, and piping systems. Hence, option B is correct.

### NEW QUESTION # 98

Equipment that is temper embrittled may be susceptible to \_\_\_\_\_ during start-up and shutdown.

- A. Creep
- B. Brittle fracture
- C. Thermal fatigue
- D. Stress fatigue

**Answer: B**

## NEW QUESTION # 99

A vacuum tower operating at 740(o) F is being entered to inspect. Several sets of Type 410 SS trays are bent at various angles. The trays are removed in order to straighten them. When an attempt is made to straighten them cracks form at the bends. What type of damage mechanism would cause the cracks to form?

- A. High temperature corrosion
  - B. Sulfide stress corrosion cracking
  - C. Hydrogen embrittlement
  - D. 885(o) F embrittlement

**Answer: D**

## NEW QUESTION # 100

The presence of \_\_\_\_\_ can destabilize the scale and turn it into a nonprotective scale.

- A.  $\text{H}_2\text{S}$
  - B.  $\text{O}_2$
  - C.  $\text{H}_2\text{O}$
  - D.  $\text{H}_2$

**Answer: C**

## NEW QUESTION # 101

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