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## API-936 Reliable Exam Review, Valid Exam API-936 Blueprint

The ActualtestPDF is committed to making the API API-936 exam preparation journey simple, smart, and swift. To meet this

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API-936 (Refractory Personnel) certification exam is designed to validate the knowledge and skills of individuals who work with refractory materials in the oil and gas industry. API-936 exam is developed and conducted by the American Petroleum Institute (API) and is recognized globally as a measure of proficiency in refractory materials. Refractory Personnel certification is intended to demonstrate that an individual has the necessary knowledge and skills to install, test, maintain, and repair refractory materials in various applications.

API-936 exam covers a wide range of topics, including refractory materials, installation, design, testing, and inspection. API-936 Exam is divided into two parts: a closed-book section and an open-book section. The closed-book section tests the candidate's knowledge of fundamental concepts, while the open-book section allows the candidate to use reference materials to answer more complex questions.

## API Refractory Personnel Sample Questions (Q45-Q50):

### NEW QUESTION # 45

The color of stripe for Inconel 600 alloy material of metallic anchor is

- A. 2 solid black
- B. 2 solid blue
- C. 1 solid black
- D. None of the above

**Answer: B**

### NEW QUESTION # 46

Which of the following is false per the requirements of API Standard 936?

- A. Cold crush strength is determined using two 4-1/2 in. (114 mm) × 4-1/2 in. (114 mm) × 4-1/2 in. (114 mm) cubes.
- B. Density shall be determined using cubes or erosion plates and linear change bars.
- C. Permanent linear change is determined with one 2 in. (50 mm) × 2 in. (50 mm) × 9 in. (230 mm) specimen.
- D. Abrasion resistance is determined using two 4-1/2 in. (114 mm) × 4-1/2 in. (114 mm) × 1 in. (25 mm) specimens.

**Answer: A**

Explanation:

According to API Standard 936, the correct specimen dimensions for cold crush strength testing are:

"Test specimens for cold crushing strength shall be 2 in. (50 mm) cubes samples prepared in accordance with ASTM C133."

-API Std 936, Section 6.4.2

This directly invalidates option A, which incorrectly states the specimen size as 4-1/2 inches.

For the other options:

Option B - Density determination:

API 936 states that density shall be measured using the same specimens used for linear change and abrasion resistance:

"Bulk density shall be determined using the same specimens prepared for the linear change and abrasion resistance tests."

-API Std 936, Section 6.4.3

"These specimens include cubes, linear change bars, and erosion plates."

-Appendix A, API Std 936

Option C - Abrasion resistance specimen size:

"Two 4-1/2 in. × 4-1/2 in. × 1 in. (114 mm × 114 mm × 25 mm) specimens shall be prepared for abrasion resistance testing."

-API Std 936, Section 6.4.4

Option D - Permanent linear change specimen size:

"Permanent linear change (PLC) is determined with a bar 2 in. × 2 in. × 9 in. (50 mm × 50 mm × 230 mm) cast in steel molds."

-API Std 936, Section 6.4.1

Therefore, Option A is the only false statement.

### NEW QUESTION # 47

A change in the length of a specimen measured before and after heating to a specific temperature is referred to as:

- A. Modulus of rupture.
- B. Modulus of elasticity.
- C. Pyrometric cone equivalent.
- **D. Permanent linear change.**

**Answer: D**

Explanation:

Permanent linear change (PLC) measures the irreversible dimensional change of a refractory specimen after it is subjected to a high temperature for a specified duration. It is expressed as a percentage of the original length. This property helps evaluate the stability and thermal compatibility of refractory materials during service.

This is distinct from:

Modulus of rupture (A): a strength test under bending.

Modulus of elasticity (C): a measure of stiffness.

Pyrometric cone equivalent (D): a test for melting behavior.

Reference:

API Std 936 - Referencing ASTM C113 and C356 for permanent linear change testing procedures

#### **NEW QUESTION # 48**

Refractory samples cast during the mock-up are cured for a minimum of:

- A. 8 hours.
- B. 12 hours.
- **C. 24 hours.**
- D. 18 hours.

**Answer: C**

Explanation:

Mock-up installations serve as a qualification tool to verify that the installation procedures, personnel, and equipment can consistently meet quality standards. API 936 stipulates that refractory samples cast during the mock-up must be cured for a minimum of 24 hours before demolding or further processing. This curing period ensures full initial set and adequate strength development of the castable.

Failure to meet this curing requirement can result in incomplete hydration, premature cracking, or misleading performance test results. The 24-hour period allows for optimal moisture retention and chemical reaction completion in hydraulic-bonded castables.

Reference:

API Std 936, Section 6.3.3 - "Samples cast during the mock-up shall be cured in accordance with manufacturer's recommendations but not less than 24 hours under standard conditions."

#### **NEW QUESTION # 49**

The vessel in which cracking reaction occurs or is completed and product gases are separated from coke and/or catalyst particulate is called

- A. Cyclones of FCCU
- B. Regenerator of FCCU
- C. None of the above
- **D. Reactor of FCCU**

**Answer: D**

#### **NEW QUESTION # 50**

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