

API-936 Valid Test Bootcamp - API-936 Valid Practice Questions

API 936 QUESTIONS

1. The API 936 exam is 3.25 hours long.
2. There are 75 questions, all multiple-choice and closed-book. Paper and reference materials are not allowed into the examinations

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Refractory linings play a crucial role in the safe and efficient operation of high-temperature equipment in the oil and gas industry. The proper installation and maintenance of refractory linings can prevent catastrophic failures that could result in equipment downtime, lost production, and even personnel injuries. Therefore, having certified refractory personnel who possess the necessary knowledge and skills is critical for maintaining the integrity and reliability of high-temperature equipment.

API-936 (Refractory Personnel) Exam is a certification program offered by the American Petroleum Institute (API) to personnel involved in the installation, inspection, testing, and maintenance of refractory materials used in the petroleum and petrochemical industries. API-936 Exam assesses the knowledge and skills required to ensure the proper selection, installation, and maintenance of refractory materials to reduce the risk of equipment failure and downtime in high-temperature process environments. The API-936 certification is recognized globally as a benchmark for excellence in refractory materials engineering and is highly valued in the industry.

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API-936 (Refractory Personnel) Exam is a certification program that is designed for individuals who work in the field of refractory installation in various industries such as oil and gas, petrochemical, power generation, and steel. Refractory Personnel certification program is offered by the American Petroleum Institute (API) and is recognized globally as a standard for refractory personnel.

API Refractory Personnel Sample Questions (Q23-Q28):

NEW QUESTION # 23

Who is responsible for ensuring that the material and applicator qualification test results are fully documented?

- A. Inspector
- B. Owner
- **C. Contractor**
- D. Manufacturer

Answer: C

Explanation:

According to API 936, the contractor is the entity responsible for overseeing and implementing the quality control system for refractory installation, which includes the documentation of all material and applicator qualification test results. This responsibility includes maintaining traceability, ensuring compliance with testing protocols, and presenting evidence of conformity for review.

API 936 outlines that proper documentation is part of the contractor's quality assurance program and must be made available to the inspector and owner upon request. This ensures that refractory materials and installation personnel meet the project requirements before work proceeds.

Reference:

API Std 936, Clause on Quality Control Documentation: "The contractor shall maintain complete records of all material qualification tests, applicator qualifications, and inspection reports." TR 980 also supports this under pre-installation responsibilities for contractors.

NEW QUESTION # 24

Which factors must be the same when retesting a sample that fails to meet specification?

□

Answer:

Explanation:

□ Explanation:

Pallet

Batch

Testing Procedure

Sample

When a sample fails to meet the required specifications in accordance with API Std 936, any retesting must maintain strict consistency with the original conditions to ensure validity and comparability of results.

API 936 states:

"If a sample fails to meet any requirement, resampling shall be permitted. However, retesting shall be performed using specimens from the same batch, pallet, and sample as the original test. The same testing procedure must be used."

- API Std 936, Section 6.2.3

Explanation of Matching Terms:

Pallet: To ensure material consistency.

Batch: Revalidates results without introducing variability from a new production lot.

Testing Procedure: Methodology must not change to avoid skewed comparison.

Sample: Must be the original sample to confirm initial findings.

Therefore, all of these factors must remain the same. The only item in your provided list that is not required to match is "Inspection

methods" - it is not part of the retesting condition clause.

NEW QUESTION # 25

Which of the following does not apply to cold crushing strength (CCS)?

- A. The loading head of the testing machine shall have a spherical bearing block
- B. CCS shall be determined on samples that have been fired to 1500°F (815°C)
- C. Density of sample affects testing loading rate
- D. Testing shall be in accordance with ASTM C1113

Answer: D

Explanation:

Cold crushing strength testing must conform to ASTM C133, not C1113. ASTM C1113 applies to thermal conductivity measurements using hot-wire techniques, not compressive strength.

"CCS shall be determined in accordance with ASTM C133. The loading surface of the test machine shall be a steel bearing block with a spherical bearing surface."

- API Std 936, Section 6.4.2

Thus:

A is correct (density can affect rate of loading).

B is incorrect, making it the correct answer.

C and D are correct per standard testing procedures.

NEW QUESTION # 26

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 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 # 27

Apparent porosity values are reported as:

- A. inches/centimeters.

- B. percentages.
- C. cubic inches/centimeters.
- D. pounds per square inch/kilograms per square centimeter.

Answer: B

Explanation:

Apparent porosity is a measure of the volume of open pores (voids that can absorb water) within a refractory sample, relative to the total volume. It is always expressed as a percentage. Testing is done using standards such as ASTM C20, which API 936 references. This metric is crucial for understanding a material's permeability, thermal shock resistance, and mechanical integrity.

Reference:

API Std 936 - Testing Procedures section referencing ASTM C20: "Porosity shall be reported as percent volume open porosity."

API TR 978 - Section on Physical Properties of Monolithic Refractories

NEW QUESTION # 28

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