



API-936 Practice Questions

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Question 1

Question Type: MultipleChoice

[Responsibilities and Qualifications]

Equipment used during applicator qualification testing shall be:

Options:

- A- provided by the refractory manufacturer.
- B- less than five years old.
- C- ASTM certified for qualification testing.
- D- the same as will be used for the installation.

Answer:

D

Question 2

Question Type: MultipleChoice

[Installation Procedures]

Who is responsible to approve refractory dryout procedures that have more than one heat source?

Options:

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

Answer:

B

Question 3

Question Type: MultipleChoice

[Installation Procedures]

Initial heating of newly installed refractory linings shall be performed with:

(This may have more than one correct answer; please Choose all answers that apply.)

Options:

- A- electrical heating elements.
- B- open torches.
- C- portable burners.
- D- process heating devices.

Answer:

A, C, D

Question 4

Question Type: MultipleChoice

[Installation Procedures]

What characteristic shall be required for form selection?

Options:

- A- Resist chemical attack
- B- Resist mechanical loads
- C- Self-supporting
- D- Transparent

Answer:

C

Question 5

Question Type: MultipleChoice

[Terms, Definitions, and Abbreviations]

Materials that are easily reduced to a granular or powdery condition after placement are known as:

Options:

- A- friable materials.
- B- calcined frits.
- C- mineral additives.
- D- granular grog.

Answer:

A

Question 6

Question Type: MultipleChoice

[Inspection and Testing Requirements]

According to API 936, test specimens are required to be held at oven dry temperature for how many hours?

Options:

- A- 1
- B- 3
- C- 5
- D- 12

Answer:

D

Question 7

Question Type: MultipleChoice

[Installation Procedures]

Which option best statements regarding curing of hydraulic bonded castables is true?

Options:

- A- Apply a manufacturer approved membrane-type curing compound before the surface is dry to the touch
- B- The membrane curing compound shall burn off at a temperature not less than 500F (260C)
- C- After remaining in place for 24 hours, forms shall be removed and a curing compound applied within 1 hour of form removal
- D- No part of the lining shall be allowed to air dry more than 3 hours before application of a curing compound

Answer:

D

Question 8

Question Type: MultipleChoice

[Material Requirements]

Size distribution of aggregate particles is determined by:

Options:

- A- porosity.
- B- rebound.
- C- expansion allowance.
- D- screen analysis.

Answer:

D

Question 9

Question Type: MultipleChoice

[Installation Procedures]

Which of the following steps are required to apply to thin-layer erosion-resistant linings?

(This may have more than one correct answer; please select all answers that apply.)

Options:

- A- Water slicking of the lining surface is permitted
- B- Overfill will be removed until flush with the tops of the hexmetal
- C- Mix times will be determined during the material qualification testing
- D- The refractory will be fully compacted in and around the anchor supports

Answer:

B, C, D

Question 10

Question Type: MultipleChoice

[Terms, Definitions, and Abbreviations]

A layer coat of refractory lining that is applied to an existing lining in an attempt to extend the lining's life is known as:

Options:

- A- buttercoat
- B- overlay
- C- paint
- D- overspray

Answer:

B

Question 11

Question Type: MultipleChoice

[Material Requirements]

What temperature is required to form a permanent bond in phosphate-bonded plastic refractory?

Options:

- A- 100F to 300F (38C and 150C)
- B- 50F to 100F (10C and 38C)
- C- 300F to 500F (150C and 260C)
- D- 500F to 700F (260C and 370C)

Answer:

D

Question 12

Question Type: MultipleChoice

[Installation Procedures]

Before application of a curing compound the hydraulic bond castable surface shall not be allowed to air dry longer than:

Options:

- A- 1 hour.
- B- 2 hours.
- C- 8 hours.
- D- 24 hours.

Answer:

A

Question 13

Question Type: MultipleChoice

[Material Requirements]

The quantity of manufactured refractory that has the same formulation as that prepared in an uninterrupted manufacturing operation is called a:

Options:

- A- pallet
- B- test sample
- C- production run
- D- bag

Answer:

C

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