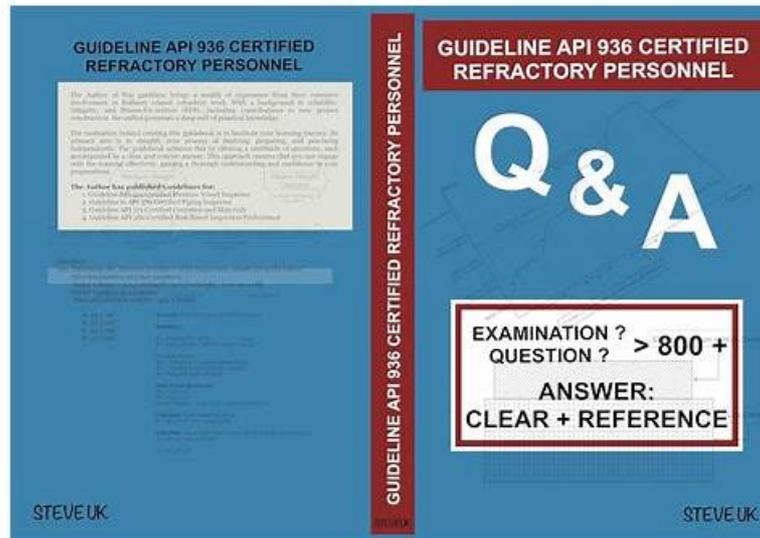


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To become certified, a candidate must pass the API-936 Exam that tests their knowledge and skills related to refractory materials, inspection, testing, and installation. API-936 exam comprises of 100 multiple-choice questions, which the candidate must answer within three hours. The topics covered in the exam include refractory types, raw materials, fabrication, test methods, installation, and maintenance.

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API Refractory Personnel Sample Questions (Q39-Q44):

NEW QUESTION # 39

When installing refractory castables in hot weather conditions, which of the following is acceptable? (This may have more than one correct answer; please select all that apply.)

- A. Decreasing mixing time
- B. Air conditioning of ambient air
- C. Spraying water on equipment
- D. Shading of equipment and mix area

Answer: B,C,D

Explanation:

API TR 980 provides guidance for hot weather installation, recommending:

"Preventive measures include shading material and equipment, cooling of mix water and forms, and in some cases, air conditioning of ambient air. Spraying water on equipment may be used to reduce radiant heat."

- API TR 980, Section 4.5.2

However, decreasing mixing time is not advised; it can result in insufficient material wet-out or inconsistent dispersion. Therefore:

A (air conditioning): Acceptable

B (decreasing mixing time): Not acceptable

C (shading): Acceptable

D (spraying water): Acceptable

NEW QUESTION # 40

A metallic anchor used to attach ceramic anchors to the casing or shall of a processing unit is

- A. C-clip
- B. None of the above
- C. U - anchor
- D. Claw anchor

Answer: A

NEW QUESTION # 41

Cold wall refractory lined components shall be dried out by heating from:

- A. the cold face only.
- B. the hot face only.
- C. inside an oven.
- D. the outside the steel shell.

Answer: B

Explanation:

Cold wall refractory systems are typically backed by steel shells, which are poor at withstanding the thermal stresses that come from reverse heating. API 936 and API TR 980 clearly emphasize that the heat-up or dryout process for cold-wall linings must always begin from the hot face- that is, the process-exposed surface.

Heating from the hot face allows for controlled migration of moisture toward the cold face and eventual venting to the atmosphere.

Conversely, heating from the cold face or steel shell side traps moisture between the hot impermeable material and the outer surface, leading to:

Steam buildup

Explosive spalling

Cracks in the material or at the interface with the steel

For these reasons, only the hot face method is specified unless the design and dryout plan justify a different method under special engineering review.

Reference:

API Std 936, Section 6.5.2: "Dryout shall be performed from the hot face only unless otherwise specified." API TR 980, Section on "Dryout of Cold Wall Systems": Highlights the mechanisms of vapor movement and the risks of reverse heating.

ASTM C1190(Referenced Method): Supports the use of correct drying schedules and methods.

NEW QUESTION # 42

The test specimen of castable refractory for cold crushing strength shall be

- A. a or b
- B. 2 in. (51mm) cubes
- C. Cylinders, 2 in. (51mm) in dia. by 2 in. (51 mm) height
- D. none of the above

Answer: A

