

570 Examination Sample Items

The items below are examples of what an exam item might look like. If you have questions about an item or disagree with the answer, please email us at inspector@api.org and we will forward to one of our subject matter experts.

Correct Answer: 3

A. Which of the following are least likely to experience corrosion under insulation (CUI)?

1. Areas subject to process spills, moisture, and/or acid vapors
 2. Areas exposed to mist from cooling towers
 3. Piping systems that operate above 250° F
 4. Areas exposed to steam vents
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Correct Answer: 2

B. Which of the following descriptions best identifies the cracks expected in corrosion observed during a visual inspection for a chlorine leak that has been dripping on an austenitic pipe?

1. Following the grain boundaries
 2. Transgranular and branching
 3. Bright and faceted
 4. A pattern of carbon stringers
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Correct Answer: 4

C. The preferred method for inspecting piping injection points involves:

1. visual inspection and ultrasonics.
 2. ultrasonics and/or acoustic emission testing.
 3. eddy current and/or radiography.
 4. radiography and/or ultrasonics.
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Correct Answer: 4

D. When dial-type indicating and recording pressure gauges are used to monitor leak testing, the maximum gauge range shall not exceed which multiple of the expected test pressure?

1. 1 ½ times
 2. 2 ½ times
 3. 3 times
 4. 4 times
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Correct Answer: 2

E. An NPS 1 ½ level bridle on a propane storage drum shall undergo thickness measurements:

1. at intervals not to exceed 10 years or half the remaining life, whichever is sooner.
 2. at intervals not to exceed 5 years or half the remaining life, whichever is sooner.
 3. only when corrosion rates exceed 5 mils per year.
 4. optionally.
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Correct Answer: 3

F. Inspection records contain the following information for a particular thickness measurement location (TML) in a return bend:

Thickness	Year
0.500	0
0.425	5
0.400	10

On the basis of the information above, the long-term corrosion rate for the location is:

1. 1 ½ mils per year.
 2. 5 mils per year.
 3. 10 mils per year.
 4. 100 mils per year.
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Correct Answer: 3

G. Which of the following defines the term hold point?

1. A pipe hanger that utilizes springs and sliding shoes to accommodate expansion and contraction
 2. A dog welded onto piping and used to align joints prior to welding
 3. A point beyond which work may not proceed until inspections have been performed and documented
 4. A trunnion, gimbal, or sliding shoe used for piping support systems
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Correct Answer: 4

H. Heat treatment is required for all thicknesses of piping over ½ inch for which of the following materials?

1. P Nos. 1 and 2
 2. P Nos. 1 and 3
 3. P Nos. 2 and 3
 4. P Nos. 4 and 5
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Correct Answer: 1

I. A welder has made 25 SMAW groove welds, but the guided bend test for the welder's qualification was never performed. In order to avoid cutting out all of the production welds made by this welder, which of the following minimum steps would be taken to validate the qualification?

1. Radiograph the welder's first production weld and accept the qualification based on acceptable weld quality by radiography.
2. There is no alternative to qualifying a welder by the guided bend test.
3. Have the welder prepare a test coupon and have the bend test done on that.
4. Radiograph all 25 welds, regardless of the governing specifications for sample selection.