

API API-653 Exam

Volume: 188 Questions

Question No:1

API 653 defines a "Storage tank engineer" as:

- A. A registered professional engineer in structural steel fabrication
- B. Person or organization who is knowledgeable and experienced in the engineering disciplines associated with evaluating the integrity and reliability of aboveground storage tanks
- C. the engineering department of a contractor who makes repairs to aboveground storage tanks
- D. A professional engineer who is also an authorized API 653 inspector

Answer: B

Question No:2

Similar service is means of estimating corrosion rates that:

- A. Is Seldom used as a means of scheduling internal inspection intervals
- B. Ignores environmental factors in the determination of corrosion rates
- C. May be used in addition to or in lieu of actual measurement of corrosion rates
- D. Is generally considered as the best methodology for establishing the inspection intervals

Answer: C

Question No:3

Controlled Deposition welding methods, in lieu of PWHT, is limited to:

- A. P-1 materials
- B. P-1 and P-3 Materials only
- C. P-1, P3, and P4 materials only
- D. P-5A materials

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Answer: C

Question No:4

Inspection hold points, for tank reconstruction, shall be designated by:

- A. The authorized inspector
- B. An engineer experienced in storage tank design
- C. Agreement between tank owner/user and reconstruction contractor
- D. Agreement between and engineer and the authorized

Answer: A

Question No:5

All repair and alteration work shall be approved at all designated hold points and after completion:

- A. Need not be approved if approved will delay work progress
- B. By the repair organization of the repairs were done according to the specified repair and/or alteration procedures
- C. By the authorized inspector or experienced storage tank engineer
- D. By the authorized inspector only

Answer: C

Question No:6

Alterations to storage tanks, which comply with API 650, must be authorized by:

- A. The owner/user
- B. The storage tank engineer
- C. The authorized inspector
- D. The repair organization

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Answer: B

Question No:7

A record of non-essential variables used during welding of the test coupon is:

- A. Optional on the PQR
- B. Optional on the WPS
- C. Required on the PQR
- D. Required on the WPQ

Answer: A

Question No:8

Cracks in the shell to bottom weld:

- A. Shall be evaluated per the "As built" Standard
- B. Shall be removed
- C. Shall be evaluated on a case by case basis
- D. Shall be evaluated per API 579

Answer: B

Question No:9

What welding process is most widely used in the repair of process equipment?

- A. GMAW
- B. GTAW
- C. SMAW
- D. FCAW

Answer: C

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Question No:10

The owner has decided to install a new bottom in an AST. The new bottom will be installed through existing tombstone reinforcing plates. One Method is to remove the lower portion of the reinforcing plate. After the new or replaced section is installed, the splice weld shall:

- A. Visually examined only
- B. Magnetic particle examined only
- C. Liquid penetrate examined only
- D. Ultrasonic shear wave examined only

Answer: B

Question No:11

Which of the following is an advantage of thick film reinforced tank bottom lining?

- A. easier to apply than thin film
- B. initial cost is typically less than thin film
- C. Provides greater resistance to moisture ingress permeation
- D. Generally more accurate MFL floor scans

Answer: C

Question No:12

The purpose of reviewing the welder performance qualification (WPO) is to:

- A. Verify that welder are qualified to perform the welding given its position and process
- B. Verify that welds made in compliance with the WPS meet requirements
- C. Verify that the welding procedure specification can produce quality welds
- D. Verify that welders are qualified to perform the welding, including all essential and nonessential variables

Answer: A

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Question No:13

The recommended type of internal floating roof is the:

- A. Double Deck
- B. Annular pontoon
- C. Pan type
- D. Single steel deck

Answer: B

Question No:14

API Publication 2201 on hot tapping and in-service welding covers:

- A. Welding requirements
- B. technical aspects
- C. Inspection requirements
- D. Safety aspects

Answer: D

Question No:15

A repair is completed on a nozzle that was originally postweld heat treated(PWHT). It has been determined that PWHT, of the repair, is inadvisable. Who is required to conduct a metallurgical review prior to applying one of the alternative methods permitted in API 653?

- A. A professional engineer registered in one or more states or provinces of Canada
- B. A Storage tank engineer
- C. The Authorized inspector responsible for the repair inspection
- D. A Metallurgical engineer experienced in alternative PWHT

Answer: B