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API API-653

Aboveground Storage Tank Inspector



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Product Version

- ✓ Up to Date products, reliable and verified.
- ✓ Questions and Answers in PDF Format.

Visit us at: <https://www.examsboost.com/test/api-653>

Question: 1

An insert plate is required for a new 4" nozzle in the shell. What is the minimum diameter for this insert?

- A.4"
- B.8"
- C.12"
- D.16"

Answer: D

<https://www.sciencedirect.com/topics/chemistry/nozzle>

Question: 2

A welder is qualified on a plate in the 3G position. The welder is qualified for what fillet weld position?

- A.None
- B.F, H
- C.F, H, V
- D.All fillets

Answer: B

Question: 3

When must a shim be placed under a penetrometers?

- A. When the area of interest is darker
- B. When the area of interest is darker by more than 15%
- C. When the area of interest is lighter
- D. When the area of interest is lighter by more than 15%

Answer: D

<https://www.roadtovr.com/htc-vive-weight-15-percent-lighter-than-original-headset-vs-oculus-rift-comparison/>

Question: 4

A welder passes a qualification test using a 3 NPS pipe with a groove weld. What is the maximum pipe diameter that the welder is now qualified to weld?

- A. 2-7/8"
- B. 4"
- C. 8"
- D. 40" to unlimited

Answer: D

<https://www.sciencedirect.com/topics/chemistry/nozzle>

Question: 5

A portion of a 1/2" thick shell plate is replaced. What is the closest distance allowed between this plate and the adjacent vertical weld?

- A. 3"
- B. 6"
- C. 10"
- D. 12"

Answer: B

Question: 6

What is the critical length "L" in the corroded area?

- A. 12"
- B. 24"
- C. 25"
- D. 40"

Answer: D

Question: 7

What is the required thickness "L_{in}" in this corroded area?

- A. 0.407"
- B. 0.418"
- C. 0.452"

D.0.464"

Answer: B

Question: 8

API 653 sets a limit on the thickness of "t₂". In order to provide a 10 year run, what is the minimum thickness that "t₂" can be during this inspection.

- A. 0.211"
- B. 0.251"
- C. 0.281"
- D. 0.301"

Answer: B

Question: 9

A reinforcement plate is added to an existing 6 NPS nozzle. The shell plate is 1.125" thick and the reinforcement plate is 0.625" thick. What is the required size of the fillet weld joining the reinforcement pad to the nozzle?

- A. 0.3125"
- B. 0.4375"
- C. 0.625"
- D. 1.125"

Answer: A

Question: 10

During a tank repair, an A-662-C plate is used for the new shell material. The shell plate is 1/4" thick. For this material, determine the lowest temperature that the tank can operate. (impact testing of the material has not been performed)

- A. -25 °F
- B. - 10 °F
- C. +15°F
- D. 41 °F

Answer: C

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