



API-577 Practice Questions

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Question 1

Question Type: MultipleChoice

What is a sensitized microstructure in austenitic stainless steels?

Options:

- A- An area next to the heat-affected zone that has suffered some softening and loss of strength.
- B- The microstructure of the weld that has been melted and will therefore have properties more like a casting than the base metal.
- C- An area near the heat-affected zone affected by welding that may experience intergranular corrosion.
- D- The high residual stress zone adjacent to the weld fusion line that will have higher hardness than the weld or base material.

Answer:

C

Question 2

Question Type: MultipleChoice

General awareness of metallurgy is important to the welding inspector because:

Options:

- A- Welding processes can affect both mechanical and corrosion properties of a weldment.
- B- The crystalline structure of base metals affects the resulting structure of the weld.
- C- Physical properties of the final weldment can be significantly affected by preheat and postweld heat treatment (PWHT).
- D- A thorough knowledge of weld metal structures is necessary to understand weldability.

Answer:

A

Question 3

Question Type: MultipleChoice

ACFM is an NDE technique ideal for inspecting:

Options:

- A- Nozzles, ring-grooves, and grind-out areas.
- B- Lap joint welds and uphill welding.
- C- Butt welds (single and double bevel) and plug welds.
- D- Fillet welds, J-welds, and seal welds.

Answer:

A

Question 4

Question Type: MultipleChoice

What is the purpose of a PQR?

Options:

- A- To provide direction to the welder making production welds.
- B- To establish the properties of the weldment.
- C- To document that a welder has correctly followed a WPS.
- D- To establish a welder's capability to make a quality weld.

Answer:

B

Question 5

Question Type: MultipleChoice

What is the maximum temperature at which ACFM may be used?

Options:

- A- 300F (150C)
- B- 500F (260C)
- C- 900F (480C)
- D- 1000F (540C)

Answer:

B

Question 6

Question Type: MultipleChoice

The deflection of an arc from its normal path that is a result of magnetic forces is referred to as:

Options:

- A- Arc drift.
- B- Arc strike.
- C- Arc blow.
- D- Arc deflection.

Answer:

C

Question 7

Question Type: MultipleChoice

What term is used to describe the mechanical working of metals using impact blows?

Options:

- A- Hammering
- B- Mechanical stress relieving
- C- Needle gunning
- D- Peening

Answer:

D



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