

API

API-SIFE
Source Inspector Fixed Equipment

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Question: 1

Butt welded pipe caps

- A. ASME BPVC requires that welding procedures and welders who construct pressure vessels to be compliant with which section of the ASME Code
- B. Weld Joint Distance Amplitude Technique
- C. ASME B16.5 does not cover which of the following?
- D. Tensile strength is determined by

Answer: C

Question: 2

Division 1 is for pressure vessels with pressure exceeding 15 psig

- A. Which of the following groups are typically included in the risk assessment for equipment
- B. What is the simple explanation to describe welded joint category "C"?
- C. What is the flange and flange fittings diameter size limit covered by the ASME B16.5 code?
- D. What is the difference between ASME Section VIII, Division 1, Division 2, and Division 3 standards

Answer: D

Question: 3

Standard Specification for Steel Forgings, General Requirements

- A. ASTM A788
- B. Bend Flattening
- C. Circumferential Welds
- D. Vacuum Box

Answer: A

Question: 4

Structural Welding Code covering 1/8" and thicker with minimum specified yield strength of 100ksi or less.

- A. B31.1
- B. Api 1104
- C. Asnt Snt-tc-1a
- D. AWS D1.1

Answer: D

Question: 5

Brush-Off Blast Cleaning allows tightly adherent mill scale, rust, and coating may remain on surface. Tightly adherent if they cannot be removed by lifting with a dull putty knife after abrasive blasting has been performed.

- A. Sspc-sp6 or Nace 3
- B. SSPC-SP7 or NACE 4
- C. Rms
- D. Sspc-sp3

Answer: B

Question: 6

Certificate of Compliance

- A. Per B31.3, end preparation is acceptable only if the surface is reasonably smooth and slag is cleaned from thermally cut surfaces.
- B. Pressure vessels are typically constructed in accordance with which of the following
- C. What can happen if improper machining techniques or preparation of a test specimen has taken place prior to quality testing?
- D. What quality documentation shall the valve manufacturer submit to the purchaser that denotes compliance to the PO?

Answer: D

Question: 7

Niobium

- A. MT

B. AARH

C. Nb

D. The technique for measuring thickness by manual Ultrasonic Pulse-Echo methods is only acceptable up to a certain temperature, what is the max testing temp?

Answer: C

Question: 8

Welding Procedure Specification (WPS)

A. When procedure qualification is specified by the referencing Code Section, a change in of a requirement defined as an essential variable does what?

B. True or false, when fabricating carbon or low-alloy steel vessels that are to contain lethal substances, such vessels shall be post-weld heat treated?

C. What is the portion of the base metal whose mechanical properties or microstructure have been altered by the heat of welding or thermal cutting?

D. What is a written document that provides direction to the welder or welding operator for making production welds in accordance with code requirements?

Answer: D

Question: 9

Magnetic Testing

A. Mn

B. MT

C. SAW

D. Mo

Answer: B

Question: 10

Same material and thickness as specimen to be examined

A. Intermixing of penetrant materials from different families and different manufacturer is permitted, true or false and why?

B. During a valve pressure test, the SI shall visually examine the valve for leakage when?

C. Seal welds on piping systems are required to cover all exposed threads?

D. Reference blocks for Ultrasonic Thickness testing should be:

Answer: C

Question: 11

Repair and Alteration

- A. National Board "R"
- B. Fcaw
- C. Ucs-56
- D. Material Test reports

Answer: A

Question: 12

Power Piping

- A. B21.8
- B. B52.4
- C. B31.1
- D. B51.6

Answer: C

Question: 13

Two or more welders or welding operators, each using the same or a different welding process, may be qualified in combination in a single test coupon.

- A. Commercial blast
- B. Combination of welding processes
- C. Heat treatment - governing thickness
- D. Types of essential variables

Answer: B

Question: 14

Requirements for Postweld Heat Treatment - Carbon and low alloy steels

-
- A. Ucs-55
 - B. U-pwht-01
 - C. Ucs-6
 - D. UCS-56

Answer: C

Question: 15

After the ASME qualified construction inspector verifies that the vessel was built and tested as required by the ASME BPVC

- A. When is a manufacturer/fabricator empowered apply the ASME BPVC stamp onto the nameplate of a vessel?
- B. Prior to witnessing or observing nondestructive examination, the source inspector should verify which of the following?
- C. What is the primary difference between a pressure vessel and a tank?
- D. During a valve pressure test, the SI shall visually examine the valve for leakage when?

Answer: A

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