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# **API API-SIFE**

## **Source Inspector Fixed Equipment**



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# Latest Version: 6.0

## 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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