

# Pressure Vessel Inspector exam certification & API-510 exam reviews

**ASME Pressure Vessel Welding Inspector  
Certification Exam With Actual Questions  
& Verified Answers, Plus Explained  
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1. Which ASME code section primarily governs the design and fabrication of pressure vessels?
- A. ASME Section V
  - B. ASME Section IX
  - C. ASME Section VIII **Division 1**
  - D. ASME Section II

**Answer:** C. ASME Section VIII Division 1

**Rationale:** *ASME Section VIII Division 1 covers the rules for construction of pressure vessels, including design, materials, and fabrication requirements.*

2. What is the primary purpose of a welding procedure specification (WPS)?
- A. To certify welders
  - B. To provide detailed instructions for welding **operations**
  - C. To inspect welds visually
  - D. To define vessel design parameters

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## API API-510 Exam Syllabus Topics:

### Section

### Objectives

- API 576: Inspection of Pressure-Relieving Devices

- 1. Inspection and Testing
- 2. Design and Operation

- API 510: Pressure Vessel In-service Inspection Code

- Part A - Closed Book (Morning Session)
- 1. Repairs, Alterations, and Rerating
  - 2. Inspection and Maintenance Practices
  - 3. Pressure Testing
  - 4. General Requirements

- API 572: Inspection Practices for Pressure Vessels

- 1. Inspection Techniques
- 2. Types of Damage Mechanisms

- ASME BPVC Section VIII: Rules for Construction of Pressure Vessels

- 1. Design and Fabrication
- 2. Material Selection
- 3. Division 1 - General Requirements

- ASME PCC-2: Repair of Pressure Equipment and Piping

- Part B - Open Book (Afternoon Session)
- 1. Welding Requirements
  - 2. Repair Procedures

- ASME BPVC Section V: Nondestructive Examination

- 1. Liquid Penetrant Testing (PT)
- 2. Radiographic Testing (RT)
- 3. Ultrasonic Testing (UT)
- 4. Magnetic Particle Testing (MT)

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## API Pressure Vessel Inspector Sample Questions (Q27-Q32):

### NEW QUESTION # 27

Repairing a crack on a vessel should not be attempted without prior consultation with \_\_\_\_\_.

- A. The original manufacturer
- B. Production manager
- C. The company writing the insurance on the vessel
- D. Pressure vessel engineer experienced in pressure vessel design

**Answer: D**

### NEW QUESTION # 28

Explain how API-510 addresses the management of aging pressure vessels to ensure ongoing operational safety.

**Answer:**

Explanation:

API-510 provides guidelines for managing aging pressure vessels, including more frequent and detailed inspections, assessments of corrosion rates, and the calculation of remaining life based on current condition data. Adjustments in operation pressures or temperatures may be recommended based on the findings to prolong the life of the vessel while maintaining safety.

#### NEW QUESTION # 29

Discuss the implications of failing to comply with API-510 standards during the construction and operation of pressure vessels.

**Answer:**

Explanation:

Non-compliance with API-510 can lead to serious safety risks, including the potential for catastrophic failures such as explosions or leaks. Legal consequences might include fines, shutdowns, and liability in the event of accidents. To avoid these risks, it's crucial for companies to adhere strictly to the standards, ensuring that all pressure vessels are designed, constructed, and maintained according to API-510 guidelines.

#### NEW QUESTION # 30

When a vessel is to be entered for an internal inspection which of the following precautions should be observed?

- A. OSHA rules should be reviewed and followed where applicable
- B. Inspect the vessel for proper electrical grounding
- C. No hot work permits in the immediate area must be issued until the inspection is complete
- D. The area should be roped off and no one else is to be working in the area

**Answer: A**

#### NEW QUESTION # 31

Identify incorrect statement from following, if any.

- A. WP S & WPQ have the same qualification requirements.
- B. Supplementary essential variables become essential variables when impact test is specified.
- C. A welder performing procedure test is also qualified in that position.
- D. For procedure qualification, the test can be performed in any position as the position is not essential variable for procedure qualification

**Answer: B**

Explanation:

changing Essential parameters of a WP S requires a brand new FOR while changing the non-essential parameters, does not invalidate the existing FOR but the WP S need to be revised anyway even when non-essential parameters are changed. PQR is a record of actual values of essential parameters used while welding the test coupon. Non-essential parameters can also be noted within a FOR if actually measured at the time of welding the test coupon but is not mandatory. PQR also include the mechanical test result (for example, tensile test and may be Charpy test, if toughness is an issue) and any NDE result, if done. FOR cannot be revised except minor clerical changes such as typo error.

#### NEW QUESTION # 32

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