

# Reliable API API-510 Online Practice Test Engine

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## API 510 Practice Test Questions and Answers 2024

Substituting NDE procedures for a pressure test after major repair may be done only after:  
API 510 5.8.8.1 - The engineer and inspector have approved.

An example of vessels not covered by API 510 are:  
API 510 1.1.1 - Vessels officially retired from service and abandoned in place.

ACFM is an acronym for:  
ASME SEC 5 Article 15 - Alternating Current Field Measurement

A pneumatic testing procedure should be developed by whom before conducting the test?  
API 510 5.8.6 - Engineer

A signal of discontinuity in the material under nondestructive examination is considered:  
API RP 577 3.1.36 - Indication

In what type of service should vessels be evaluated for potential fatigue cracking failures and have appropriate inspections planned?  
API 510 5.4.4 - Cyclic Service

Corrosion and other damage identified during inspections and examinations must be characterized, sized, and evaluated per Section 7 (Inspection Data Evaluation, Analysis, and Recording) with deviations from the inspection plan being approved by whom?  
API 510 5.5.1 - Inspector or Engineer

Inspection tasks typically associated with hot tapping or welding on in-service equipment should include:  
API 577 11.2.5 - Positive Metal Identification (PMI)

Any repair welding should be performed according to a procedure accepted by the:  
API 510 8.1.1 - Inspector or Engineer

Welding of carbon steel with carbon contents over 0.30%  
API 510 8.1.5 - May need special attention and preheating to avoid weld cracking.

Inspector recommendations can be changed or deleted after review by whom?  
API 510 6.9 - Pressure Vessel Engineer or Inspection Supervision

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specially Dumpexams in this field. Each candidate has a different style of learning and preparation. They find it beneficial to pursue their desired study pattern for improved results.

## API Pressure Vessel Inspector Sample Questions (Q13-Q18):

### NEW QUESTION # 13

Explain the training and continuous education requirements for pressure vessel inspectors as per API-510 to ensure high standards of safety and compliance.

#### Answer:

#### Explanation:

API-510 requires that pressure vessel inspectors undergo rigorous initial training, which includes both theoretical and practical components. Inspectors must understand the principles of pressure vessel design, the properties of materials used, and the dynamics of pressure systems.

Continuous education is also mandated, requiring inspectors to attend workshops, seminars, and refresher courses regularly to stay updated with the latest changes in regulations, inspection technologies, and best practices. This ongoing training ensures that inspectors maintain a high standard of expertise and are well-equipped to enforce safety and compliance effectively.

### NEW QUESTION # 14

API-510 requires a hydrostatic test to be performed at what interval during the vessel's service life?

- A. Every 5 years
- B. After each shutdown
- C. Only after major repairs
- D. Every 10 years

#### Answer: C

### NEW QUESTION # 15

PT examination is used to detect the surface cracks in welds as well as in base metal plates. For proper detection,

- A. Depends on type of penetrant used.
- B. We should allow higher penetrant time on weld
- C. Penetrant time on weld as well as plates is same
- D. We should allow higher penetrant time on base metal or plates than welds

#### Answer: A

#### Explanation:

Welds have rough surface compared to parent material and hence the penetrant can seep inside the weld discontinuities easier and faster. see ASME V; Table T-672 Minimum Dwell Times; pp. 219

### NEW QUESTION # 16

Explain the role and responsibilities of an Authorized Pressure Vessel Inspector under API-510 during routine inspections.

#### Answer:

#### Explanation:

An Authorized Pressure Vessel Inspector (API) plays a critical role during routine inspections under API-510. Their responsibilities include assessing the physical condition of the vessel, ensuring compliance with safety regulations, and verifying that the vessel operates within the specified parameters. Inspectors are required to conduct thorough examinations, including both external and internal checks, using appropriate non-destructive testing methods. They must also review maintenance and repair records and ensure that any anomalies found during inspections are addressed promptly. The API's role is crucial in certifying that vessels continue to operate safely and efficiently, adhering to the regulatory requirements outlined in API-510.

## NEW QUESTION # 17

Explain the process of integrating new materials technology in the construction of pressure vessels as per API-510.

### Answer:

#### Explanation:

Integrating new materials technology in the construction of pressure vessels as per API-510 involves thorough testing and evaluation to ensure compatibility with existing standards. This includes mechanical and chemical property testing, long-term durability assessments, and compatibility checks with the contents to be stored or processed in the vessels. API-510 requires that all new materials be approved based on their ability to maintain structural integrity under the operating conditions specified for the vessel. The use of new materials must also be documented in detailed engineering reports and reviewed by certified inspectors.

## NEW QUESTION # 18

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