

# API-510 Valid Test Questions, API-510 Valid Braindumps Book

## 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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## API Pressure Vessel Inspector Sample Questions (Q170-Q175):

### NEW QUESTION # 170

How does API-510 address the challenges of corrosion under insulation (CUI) for pressure vessels?

**Answer:**

Explanation:

API-510 addresses the challenges of corrosion under insulation (CUI) by recommending specific inspection and maintenance strategies. This includes guidelines for the periodic removal of insulation for visual inspection and testing, use of appropriate materials that resist moisture accumulation, and the application of coatings that inhibit corrosion. Additionally, API-510 advises on the use of advanced non-destructive testing techniques, such as real-time radiography or ultrasonic testing, to detect signs of corrosion without removing insulation, thus reducing inspection costs and downtime.

### NEW QUESTION # 171

Which is the most severe stress caused by internal pressure in a cylindrical shell?

- A. Circumferential stress acting along the circumferential axis
- B. Longitudinal stress acting along the longitudinal axis
- C. Circumferential stress acting along the longitudinal axis
- D. Longitudinal stress acting along the circumferential axis

**Answer: C**

### NEW QUESTION # 172

Which of the following relief devices is intended to work with steam boilers?

- A. Safety Relief Valve.
- B. Balanced Safety Relief.
- C. Safety Valve.
- D. Relief Valve.

**Answer: C**

### NEW QUESTION # 173

When performing an external inspection on a vessel what consideration should be given to the external insulation?

- A. Select portions must be removed for inspections
- B. You may not use any plug locations used for UT thickness reading to inspect the vessel
- C. If insulation is in good condition and the vessel operates within the high and low temperatures stated in API 510, removal of insulation is not necessary for inspection of the vessel
- D. It shall always be removed to inspect underneath

**Answer: C**

### NEW QUESTION # 174

One of the steps when rerating a pressure vessel is the documentation of the:

- A. Calculations from the manufacturer or the owner-user's engineer
- B. Approval of the ASME
- C. Approval of the operation's engineering department



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