

API API-510 Sample Questions, API-510 Clear Exam

API 510 Examination questions

1. Who is responsible for transferring the plate marking to the balance plate for a vessel repair work?
 - A. Authorized inspector who is overseeing the repair activities
 - B. Repair organization who does the repair work
 - C. The fabricator who is involved in the repair process
 - D. The pressure vessel Engineer who approved the repair work
2. A repair work on a pressure vessel is to be carried out. Who is responsible to have WPS/PQR made for the repair work.
 - A. Owner user
 - B. Repair organization
 - C. Authorized inspector
 - D. Third party company who does the inspection work
3. A vessel in service has different zones of corrosion. The next inspection frequency will be decided by
 - A. Zone with highest rate of corrosion
 - B. Zone with lowest remaining life
 - C. Average rate of corrosion shall be taken into consideration
 - D. Average remaining life of the vessel shall be considered
4. When the vessel is opened for inspection. Entry of the vessel is allowed only after the evaluation of the condition in accordance to
 - A. OSHA
 - B. API
 - C. ASME/API
 - D. ANSI
5. PSV cold set pressure is 400psi. What is the acceptable tolerance in the set pressure
 - A. 402 psi
 - B. 412 psi
 - C. 420 psi
 - D. 418 psi
6. A pressure vessel of 60" ϕ has three pits within a circle of 7" diameter. The nominal thickness of the shell is 0.75" and the CA is 0.125". The details & dimensions of the pits are listed below. Your assessment is
 - 0.475" X 0.385" depth 0.21"
 - 1" dia depth 0.35"
 - 0.375" X 0.385" depth 0.23"
 - A. The area of pit is more than the acceptable
 - B. The pits are more than the acceptable length
 - C. The pit depth is more than the acceptable
 - D. The pits are acceptable as they are meeting the requirement.
7. The vessel has serviced for 10 years and the original thickness was 1.25". The observed thickness after 8 years is 0.92" and the thickness at the end of 10th year is 0.886". The minimum required thickness is 0.8". What corrosion rate will be taken for calculation
 - A. 0.017"
 - B. 0.033"
 - C. 0.33"
 - D. 0.17"
8. A pressure vessel of 80" has its part MAWP at various parts are detailed in the sketch. What is the vessel MAWP
Ref: Sketch The static head is 0.433 psi per foot of water
 - A. 419 psi

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API Pressure Vessel Inspector Sample Questions (Q109-Q114):

NEW QUESTION # 109

Which of the following will vessel rerating involve:

- A. Calculations from either the manufacturer or an owner-user engineer experienced in pressure vessels
- B. Calculations from only a manufacturer experienced in pressure vessels
- C. Use of Non-Code requirements as established in accordance with the alternative rules of API 572
- D. Review Inspection records verify the pressure vessel has been in the proposed service previously

Answer: D

NEW QUESTION # 110

Widely scattered pits may be ignored as long as all but which of the following is true?

- A. No pit depth greater than 2/3 the vessel wall exclusive of the corrosion allowance
- B. No pit depth greater than 1/2 the vessel wall exclusive of the corrosion allowance
- C. Sum of dimensions along a straight line does not exceed 2 inches
- D. Total area of pits does not exceed 7 square inches in any 8" diameter circle

Answer: B

NEW QUESTION # 111

After a vessel has been placed in service, what Code is used to evaluate?

- A. ASME Section V
- B. API 510
- C. API 572
- D. ASME Section VIII

Answer: C

NEW QUESTION # 112

How does API-510 address the challenges of inspecting pressure vessels in remote or hazardous locations?

Answer:

Explanation:

API-510 addresses the challenges of inspecting pressure vessels in remote or hazardous locations by allowing for the use of advanced remote inspection technologies. These include robotic inspection devices, drones equipped with cameras and sensors, and remote non-destructive testing techniques that can be operated from a distance. These technologies help in conducting thorough inspections without compromising the safety of inspectors. Additionally, API-510 encourages the development of inspection plans that specifically consider the logistical and safety challenges associated with remote or hazardous environments.

NEW QUESTION # 113

Flush (insert) patches shall be installed with full penetration butt joints and the corners shall be what type?

- A. The corners shall be provided with a 6 inch radius
- B. The corners shall be squared
- C. The corners shall be rounded 1 inch minimum radius
- D. The corners shall be provided with a 3 inch radius

Answer: C

