

Reliable API-510 Brindumps - API-510 Valid Exam Materials

API 510 (11,24)Jan 2022 Closed Book

- 1- For the external inspection of an insulated vessel, where the removal of insulation a wet service the condition of the insulation system shall be observed at lease every:
 - A: 6 Year.
 - B: 1 Year.
 - C: 5 Year.**
 - D: 10 Year.

REF-API-510 (6.3.1)
- 2- Repair of a pressure vessel that comply with ASME code section viii Division 2 required. The appropriate of a:
 - A: Pressure vessel inspector .
 - B: Pressure vessel Engineer.
 - C: Pressure vessel Engineer and a corrosion specialist .
 - D: Pressure vessel Engineer and a Pressure vessel inspector.**

REF- API – 510 (8.1.2)
- 3- Except under insulation, which of the following is the lowest temperature Which atmospheric corrosion would not be expect to occur:
 - A: 120 F (49 C)
 - B: 125 F (52 C)
 - C: 250 F (121 C)**
 - D: 300 F (149 C)

REF- API – 571- Atmospheric corrosion (4.3.2.3 f)
- 4- What is the maximum interval of visual on stream inspection of pressure relieving device:
 - A: Every Turnaround
 - B: 3 Year
 - C: 5 Year
 - D: 10 Year**

REF-API -510 (6.3)
- 5- When should temporary repair be removed and replaced with suitable requirements.
 - A: The next time the unit is shut down
 - B: At the next available maintenance opportunity**
 - C: If the vessel is re rated to a higher pressure or operating temperature
 - D: when performing alteration that may affect the integrity of the repair

REF-API-510 (8.1.6.1.1) Topic temporary repair
- 6- Before starting any vessel inspection and maintenance activities, Personal should Action perform to work in the vicinity from:
 - A: The facility supervisor for which the vessel is located
 - B: pressure vessel engineer
 - C: The operating personal responsible for the pressure vessel**
 - D: the maintenance foreman in charge of the process unit

REF-API - 510 (5.3.3)

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API API-510 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Damage Mechanisms and Corrosion Assessment	22%	- High-temperature damage and material degradation - Cracking mechanisms (environmental, fatigue, creep) - Damage assessment and prioritization - Corrosion under insulation (CUI) and environmental degradation - Internal, external, and localized corrosion
Topic 2: Fitness-for-Service, RBI, and Pressure Testing	12%	- Hydrostatic, pneumatic, and leak testing rules - API 579/ASME FFS-1 screening and assessment - Risk-based inspection (RBI) principles and application - Acceptance criteria and post-test evaluation

Topic 3: Inspection Scope, Planning, and Data Evaluation	28%	- Code scope, jurisdiction, and regulatory requirements - Records review and baseline data collection - Inspection interval determination and extension rules - TML/CML selection and measurement planning - Inspection methods and technique selection - Remaining life and corrosion rate calculations
Topic 4: Design, Materials, and Fabrication Rules	22%	- Material selection, properties, and toughness requirements - ASME Section VIII, V, IX application - MAWP, thickness, and joint efficiency calculations - Welding, qualification, and PWHT requirements - Flanges, bolting, gaskets, and special components - Positive material identification (PMI) and traceability
Topic 5: Repairs, Alterations, Rerating, and Mechanical Integrity	16%	- Repair vs alteration definitions and procedures - Pressure relieving devices and overpressure protection - Documentation and post-work verification - Rerating, reclassification, and nameplate updates - Authorization and responsibility for work

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API Pressure Vessel Inspector Sample Questions (Q128-Q133):

NEW QUESTION # 128

Explain how API-510 addresses the retrofitting and upgrading of aging pressure vessels to meet modern operational demands.

Answer:

Explanation:

API-510 provides comprehensive guidelines for retrofitting and upgrading aging pressure vessels to meet modern operational demands. This includes assessing the current condition of the vessel, determining the feasibility of upgrades or retrofits, and implementing modifications in compliance with current safety standards. The standard outlines procedures for replacing outdated components with modern materials and technology that enhance performance and safety. Thorough testing and re- certification are required after any retrofitting work to ensure that the vessel continues to operate safely under the new conditions.

NEW QUESTION # 129

What is the recommended shell temperature, per API 510 during a hydrostatic test of a vessel, 1"thick?

- A. 10 ° F above MDMT
- B. 30 ° F above testing liquids temperature
- C. 30 ° F above ambient
- D. 65 ° F above ambient

Answer: A

NEW QUESTION # 130

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

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

Answer: B

NEW QUESTION # 131

Discuss the challenges and solutions in integrating API-510 standards with other international pressure vessel inspection codes.

Answer:

Explanation:

Integrating API-510 with other international codes can present challenges due to differing standards, regulations, and practices across regions. Solutions include using a dual-coding system where the strictest standards are applied, conducting gap analyses to identify and reconcile differences, and continuous training for inspectors to understand multiple standards. International collaboration and harmonization efforts among regulatory bodies also facilitate smoother integration.

NEW QUESTION # 132

The definition of a construction code is?

- **A. The Code or standard to which a vessel was originally built**
- B. Any technique of construction
- C. Any standard used to repair vessel
- D. Any standard used to build a vessel

Answer: A

NEW QUESTION # 133

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