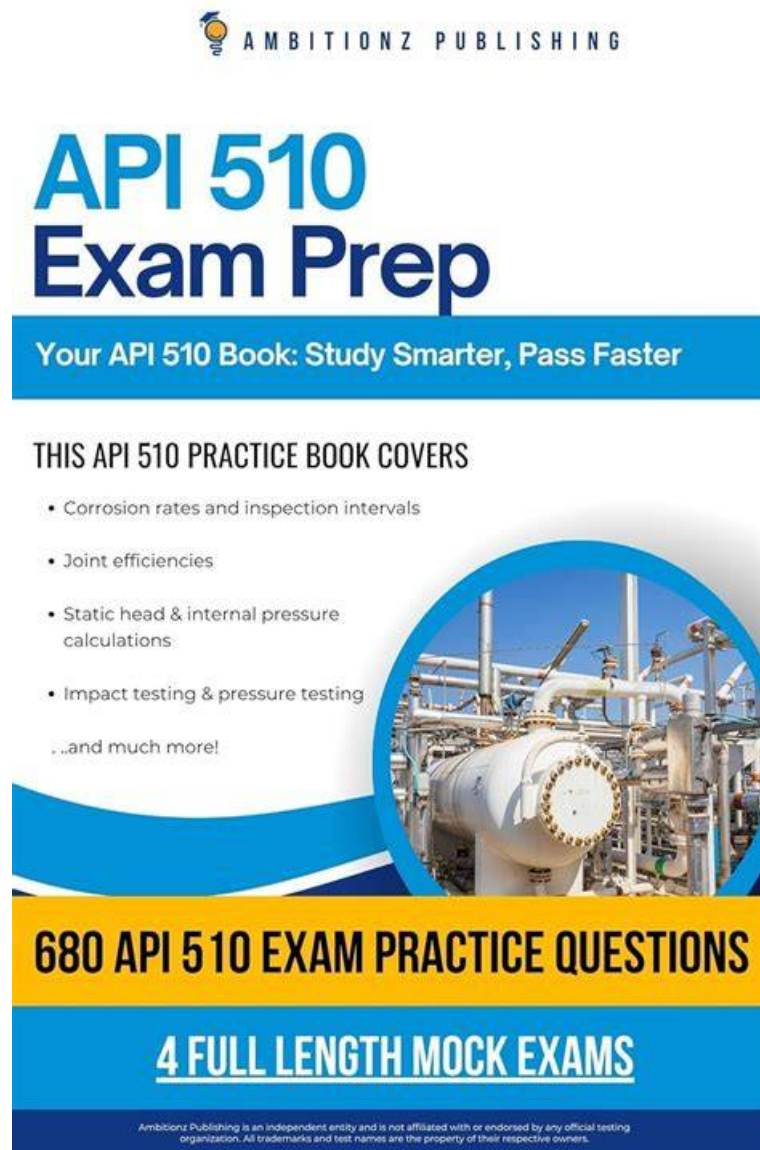


Pressure Vessel Inspector test questions and dumps, API-510 exam cram



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API API-510 Exam Syllabus Topics:

Section

Objectives

Codes, Standards, and Fitness-for-Service	- API and ASME standards • 1. ASME Section VIII overview • 2. API 510 inspection code requirements
Inspection, Testing, and Monitoring	- Fitness-for-service evaluation • 1. API 579/ASME FFS-1 concepts • 2. Defect assessment methodologies - In-service inspection methods • 1. Nondestructive examination (UT, RT, MT, PT) • 2. Visual inspection techniques
Pressure Vessel Design and Engineering Fundamentals	- Corrosion monitoring and assessment • 1. Remaining life calculations • 2. Corrosion mechanisms - Construction and fabrication basics • 1. Weld joint efficiency • 2. Fabrication standards (ASME Section VIII)
Repair, Alteration, and Rerating	- Design principles and calculations • 1. Allowable stress and material selection • 2. Design pressure and temperature considerations - Alteration and rerating requirements • 1. Documentation and code compliance • 2. Pressure vessel rerating principles
Risk and Integrity Management	- Repair procedures • 1. Post-weld heat treatment requirements • 2. Welding repairs and procedures - Risk-based inspection (RBI) • 1. API 580 concepts • 2. Probability and consequence of failure

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API Pressure Vessel Inspector Sample Questions (Q146-Q151):

NEW QUESTION # 146

Determine in what two ways may the probable corrosion rate for a new vessel be determined before the first internal inspection?

- A. From data collected on vessels providing the same or similar service or from published data on vessels providing

comparable service

- B. Employing highly experienced inspectors or engineers
- C. Assuming a standard corrosion rate
- D. Corrosion tabs and UT readings

Answer: A

NEW QUESTION # 147

Whose authorization is required as a minimum prior to the start of any repairs or alterations?

- **A. The authorized pressure vessel inspector**
- B. The maintenance manager
- C. The production manager
- D. The insurance company

Answer: A

NEW QUESTION # 148

A SME Sec. VIII Div.1 is based on factor of safety equal to

- A. 0
- B. 2.5
- **C. 3.5**
- D. 1

Answer: C

Explanation:

The safety factor was previously "4" but with better manufacturing and quality over the years, the factor of safety was reduced to 3.5

NEW QUESTION # 149

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

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

Answer: B

NEW QUESTION # 150

An inspector should be stricter while carrying out inspection on:

- **A. Longitudinal Joint**
- B. Both are equally critical as per ASME Sec. VIII,Div.1
- C. Depends on QA plan
- D. Circumferential Joints

Answer: A

Explanation:

Because of hoop stress, the longitudinal joint has to tolerate roughly twice of stress applied on circumferential weld.

NEW QUESTION # 151

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