

## **APIEXAM.COM**

Path #2. API 653. In this path we will see 50 more closed book questions to be studied for the API 653 Certification Examination

The following questions were extracted from the standards by me, or remembered by me or other students that took the exam before.

The format is a Q&A one, different from the multiple choice question format from other courses I have seen online. I prefer this method because it takes away all the clutter that leads to confusion when treating these standards. I advise you to copy this info and paste it in a spaced repetition software like Anki or Supermemo, as the Q&A format allows, and start studying right away. You could choose to print flashcards too. When days pass by, you will see who you remember all of the information with no problem.

51. Q: A penetrometer is used to  
A: Determine the image quality of a radiograph  
Ref: V-230 ASME SEC V
52. Q: API 650 limits design temperature to be no more than  
A: 93°C  
Ref: 1.1.1 API 650
53. Q: If a plate for a reconstructed tank has been out in the open for more than 180 days, can it be used for tank shells?  
A: Yes but with and UTM assesment  
Ref: 8.4.1 API 653
54. Q: If impact test was not done on original tank material of unknown toughness, the hot taps shall be limited to what diameter?  
A: 4NPS  
Ref: 9.14.1.1 API 653
55. Q: In tank alteration, a full hydrostatic test is required if it was installed a of nozzles larger than which diameter below liquid level?  
A: 12NPS bellow liquid level  
Ref: 9.14.1.1 API 653
56. Q: It is permitted the use of Cast iron part in the pressure parts of a tank?  
A: No  
Ref: 4.1.1.3 API 650

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57. Q: A new A36 tank is to be hydrostatically tested. What maximum allowable stress should be used to determine the maximum hydrostatic height?  
A: 24900psi Ref: Table 5-2b API 650
58. Q: Routine visual in-service inspections of aboveground storage tanks from the ground may be done by ?  
A: Owner/operator Ref: 6.3.1 API 653
59. Q: Penetrameters are usually placed in which side of the radiographic arrangement?  
A: Source side Ref: VIII-277.1 ASME SEC V
60. Q: If a welder test for a 6G position, he qualifies for  
A: all positions Ref: QW-461.9 ASME IX
61. Q: If a repair of shell plate thicker than 1 inch, the base metal within 3 inches of the repair shall be heated to how much degrees?  
A: 140 °F Ref: 10.4.2.3 API 653
62. Q: The maximum spacing of measurement points around the circumference of a tank for an hydrostatic test is?  
A: 32ft Ref: 12.5.1.2 API 653
63. Q: The maximum acceptable undercutting of vertical butt welds in a reconstructed tank shall be limited to what?  
A: 1/64" Ref: 8.5.1.b API 650
64. Q: How many tensile tests are required to qualify a 1/4" plate groove weld?  
A: 2 Ref: QW-450 SME IX
65. Q: For what diameter tank is the variable design method for calculating shell thickness mandatory?  
A: 200ft Ref: 5.6.3.1 API 650

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66. Q: At the maximum pole spacing, a magnetic Yoke is expected to lift at least  
A: 10 lb Ref: T-762 ASME SEC V
67. Q: The magnetizing power of permanent magnetic yokes shall be checked every  
A: Prior to use Ref: T-762 ASME SEC V
68. Q: When there is no RBI assesment, the internal inspection interval of an aboveground storage tank shall not exceed  
A: 20 years Ref: 6.4.2.2 API 653
69. Q: The minimum number of settlement points around a tank periphery is?  
A: 8 Ref: 12.5.1.2 API 653
70. Q: If corrosion rates are not known, external UT measurements of a new tank shell shall be made not later than how many years?  
A: 5 Ref: 6.3.3.2 API 653
71. Q: Welders participating in tank construction should be tested according to which standard?  
A: ASME IX Ref: 7.2.1.1 API 650
72. Q: A welder is qualified to B31.3. Is he authorized to weld in the tank?  
A: No Ref: 7.2.1.1 API 650
73. Q: What is the minimum amount of manholes a single deck external floating roof 15m diameter?  
A: 2 Ref: C.3.11 API 650
74. Q: A riveted tank shell with a butt joint has 3 rows at each side of the joint center line. What is the joint efficiency?  
A: 0,85 Ref: Table 4-3 API 653

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75. Q: What is the value used for joint efficiency in API 650 shell design calculations?  
A: 1 Ref: Table 4-2 API 653
76. Q: Since which edition of API 650 joint efficiency has a 1 value?  
A: Seventh Ref: Table 4-2 API 653
77. Q: Is PT required for areas where temporary attachments have been removed if the shell is A36 steel?  
A: No Ref: 7.2.3.5 API 650
78. Q: Essential variables for procedure qualification are summarized in which numeral of ASME IX?  
A: QW-253 Ref: ASME IX
79. Q: Essential variables for performance qualification are summarized in which numeral of ASME IX?  
A: QW-353 Ref: ASME IX
80. Q: Opening in tank shells larger than required to accommodate a \_\_\_\_\_ inch standard-weight coupling shall be reinforced  
A: 2NPS Ref: Table 5-6a API 650
81. Q: It is allowed to have in a course plates thinner than those in the course above it?  
A: No 5.6.1.3 API 650
82. Q: The minimum allowable thickness of an annular plate ring is  
A: 0,1" Ref: 4.4.6.1 API 653
83. Q: Misalignment in completed vertical joints for shell plates greater than 16 mm should not exceed  
A: 3mm Ref: 7.2.3.1 API 650
84. Q: Is API 653 used to inspect refrigerated tanks?  
A: No Ref: 1.1.1 API 650

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85. Q: To be a major alteration a nozzle installed below liquid level must be what size?  
A: Larger than 12NPS Ref: 3.18 API 653
86. Q: UT examination methods shall be in accordance with \_\_\_\_\_  
A: ASME Boiler and Pressure vessel code  
SEC 5 Ref: Chapter 8 API 650
87. Q: Vertical welds on new tanks must be fully radiographed if the shell thickness exceeds which thickness?  
A: 1 inches Ref: Figure 8-1 API 650
88. Q: Is welder identification required for roof welds?  
A: No Ref: 9.4 API 650
89. Q: Welder or welding operator's identification marks shall be located adjacent to completed welds at intervals not exceeding  
A: 3 feet Ref: 9.4 API 650
90. Q: Which standard is mandatory for new material to be used in an existing tank?  
A: The current applicable standard Ref: 7.2 API 653
91. Q: Which is the maximum allowable slope of a frangible roof of a tank 15m or greater?  
A: 2:12 Ref: 5.10.2.6 API 650
92. Q: Which type of roof is used to reduce vapor space and product loss?  
A: Floating roof tank Ref: General Knowledge
93. Q: The area on a tank bottom where settlement begins  
A: Breakover point Ref: 3.5 API 653
94. Q: A tank for which corrosion rates and service history are not known and documented is known as?  
A: A candidate Tank Ref: 3.6 API 653

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95. Q: A procedure for installing a nozzle in the shell of a tank that is in service  
A: Hot tap Ref: 3.14 API 653
96. Q: Installing a shell penetration 6NPS in size 24" high from the bottom is considered a shell penetration?  
A: No Ref: 3.18 API 653
97. Q: A tank for which corrosion rates and service history are known and documented is known as?  
A: A control tank Ref: 3.8 API 653
98. Q: Any work necessary to maintain or restore a tank to a condition suitable for safe operation is called a...  
A: Repair Ref: 3.24 API 653
99. Q: Should you consider jacking of a tank shell a major alteration/repair?  
A: Yes Ref: 3.18 API 653
100. Q: An authorized \_\_\_\_\_ is representative of an organization's integrity department  
A: inspector Ref: 3.16 API 653

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