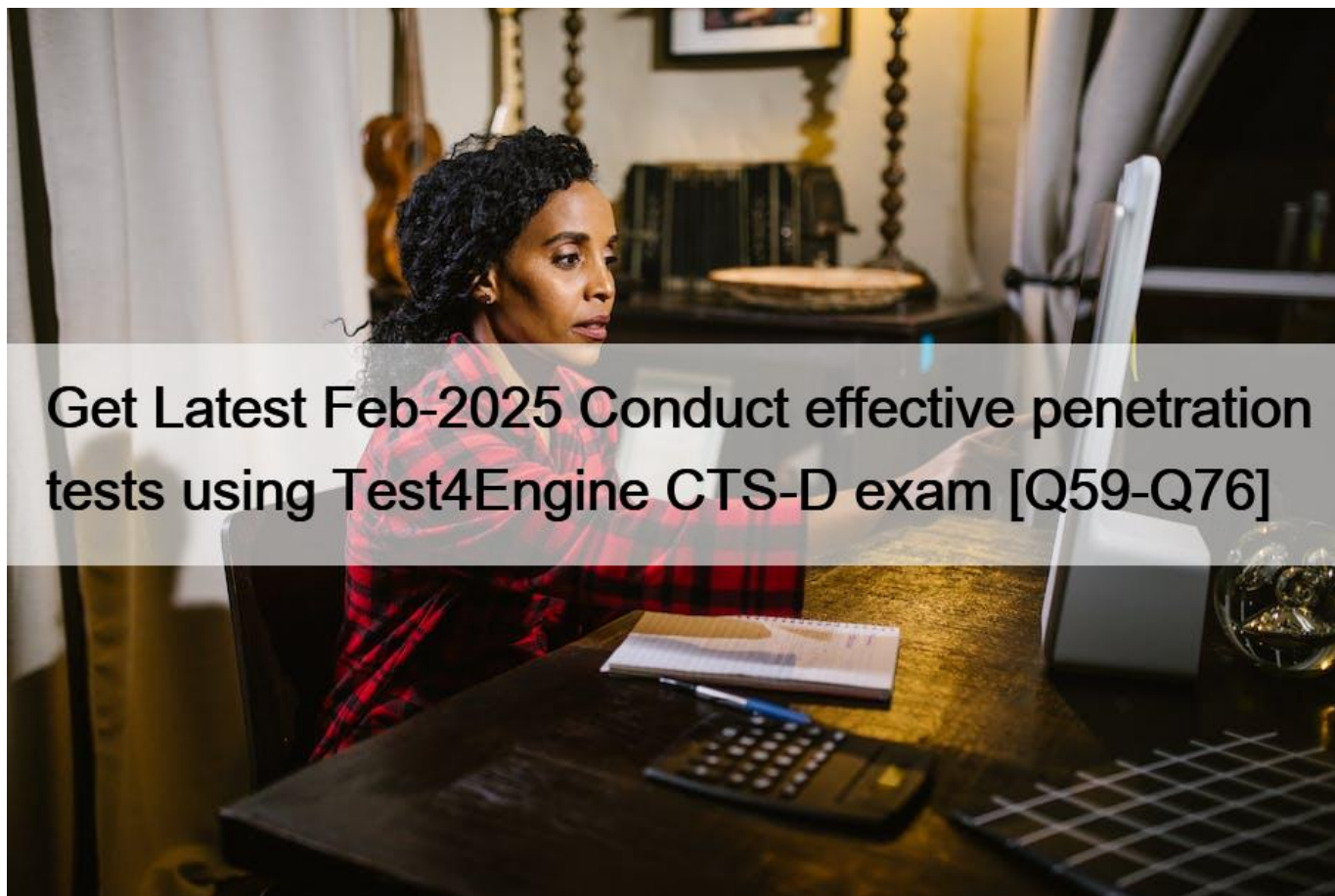


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AVIXA CTS-D - Design Exam Syllabus Topics:

TopicWeight**Duty A: Conducting a Needs Assessment****16.8%**Task 1: Identify Decision-makers and Stakeholders1.6%Task 2: Identify Skill Level of End Users2.4%Task 3: Educate AV Clients1.6%Task 4: Review Client Technology Master Plan3.2%Task 5: Identify Client Expectations4%Task 6: Identify Scope of Work4%**Duty B: Coordinating with Other Professionals to Develop Project Documentation****23.2%**Task 1: Review A/E (architectural and engineering) drawings4%Task 2: Coordinate with architectural/interior design professionals4%Task 3: Coordinate with Mechanical Professionals1.6%Task 4: Coordinate with Structural Professionals1.6%Task 5: Coordinate with Electrical Professionals3.2%Task 6: Coordinate with lighting professionals2.4%Task 7: Coordinate with IT and network security professionals4.0%Task 8: Coordinate with acoustical professionals1.6%Task 9: Coordinate with life safety and security professionals0.8%

Q59. For a flat-floor auditorium with rows of staggered seats, evenly spaced for proper horizontal viewing, which row or rows will

determine the preferred minimum height of the bottom of the image on a display at the front of the room?

[Collaborating With Other Professionals/Coordinate architectural/interior design criteria] Response:

- * First three front rows of the room
- * Rear three rows of the room
- * Second row from the back of the room
- * Ends of the back row of the room

Q60. Eighth-order filters are useful as _____.

Response:

- * Low-pass filters
- * Crossover filters
- * Shelving filters
- * Notch filters

Q61. What is the primary goal of a needs analysis?

Response:

- * Identifying the intended use of the space
- * Selecting the right equipment
- * Establishing the "first use" date
- * Meeting the budget requirements

Q62. You need to project an image that has a 4:3 aspect ratio. You measure the screen height and determine that it is 2,286 mm high and 3,048 mm wide. Can you use this screen for the 4:3 image?

Response:

- * Not enough information to determine
- * All of the above
- * No
- * Yes

Q63. Which of the following signals can coexist in one conduit without interference?

[Developing AV Designs/Create draft AV design]

Response:

- * Video and microphone-level audio
- * Data network and line-level audio
- * Serial control and video
- * Speaker level audio and serial control

Q64. For light coming directly from a source such as a lightbulb, what measure and instrument should be used?

Response:

- * Footcandle with a light impedance meter
- * Candela with an incident meter
- * Lux with an incident meter
- * Foot lambert with an STL

Q65. Two types of meters typically used for signal monitoring are _____ and _____.

Response:

- * EBU, SMPTE
- * dBu, PPM
- * VU, PPM
- * VU, AES

Q66. Where would the person in charge of verifying system performance locate performance criteria?

Response:

- * The owner's manuals
- * The original installers of the system
- * The project specifications
- * The commissioning report

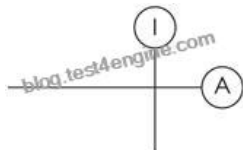
Q67. Which of the following architectural drawing symbols is a detail flag?

Response:

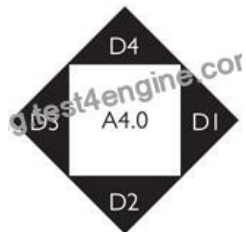
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Q68. When creating a schematic diagram of audio signal flow for a project, what must be included in the diagram?

Response:

- * Conduit runs, pull boxes, bends
- * Inputs, outputs, equipment rack locations, ceiling venting
- * Construction materials, wall panels, acoustic tiles
- * Microphones, mixers, switchers, routers, and processors

Q69. Comprehensive training of end users and support staff is essential to customer satisfaction and also _____.

Response:

- * Enables the AV contractor to continue to keep paid personnel at the site

- * Reduces service calls as well as improper use and equipment damage
- * Reduces AV contractor costs because it is a tax-deductible expense
- * Is not expensive or time-consuming because the manufacturer pays for it

Q70. Which of the following is a type of control system?

Response:

- * Cloud-based
- * Computer-driven
- * Habitual learning
- * All of the above

Q71. If your streaming AV system does not support High-bandwidth Digital Content Protection (HDCP), it's likely the system _____.

Response:

- * Won't be able to play standard-definition video content
- * Won't be able to play protected audio streams
- * Won't be able to play live video streams
- * Won't be able to play high-definition video content

Q72. A 16:9 screen will be installed in a lecture hall. The screen's diagonal is 72 in (1,829 mm). What is its width?

Response:

- * 72 in (1829 mm)
- * 70 in (1778 mm)
- * 50 in (1270 mm)
- * 63 in (1594 mm)

Q73. Both _____ use transition-minimized differential signaling to transmit high-speed serial data.

Response:

- * DVI and HDMI
- * superMHL and DisplayPort
- * HDMI and DisplayPort
- * DVI and DisplayPort

Q74. When setting a delay filter, it's useful to know that sound travels at how many feet (meters) per second at about 70 degrees Fahrenheit?

Response:

- * 1,001 (305)
- * 1,130 (344)
- * 950 (390)
- * 1,025 (312)

Q75. When producing shop drawings such as AV signal flow diagrams, what should be included?

Response:

- * Details of equipment configuration and interconnections

- * Details about the building infrastructure and electrical system
- * Vendor details and specifications
- * Descriptions of the video feed settings and relays

Q76. Which of the following is a mitigation strategy for addressing security risks introduced by AV systems?

Response:

- * Putting AV systems on a VLAN
- * Hiring a security expert
- * Building a firewall
- * Setting all passwords to “password”

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