

Exam CTS-D Quizzes & AVIXA Real CTS-D Questions: Certified Technology Specialist - Design Pass Success

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AVIXA CTS-D: Loudspeakers Exam Questions With Correct Answers

Distributed Loudspeaker System - answer✓✓Employs multiple loudspeakers that are separated by some distance from each other. This is most commonly done by placing them in the ceiling above the audience area.

loudspeaker polar pattern directivity - answer✓✓how much area a selected loudspeakers will cover, typically in ballon plot format representing a specific frequency response

Coverage is typically stated at the 6 dB down points with 5 degree markings

Speech Reinforcement typical loudspeaker frequency rating - answer✓✓2000 Hz (2 kHz)

What two items do a loudspeaker polar chart indicate? - answer✓✓1. The radiated energy of a loudspeaker at a given frequency in either the vertical or horizontal plane. Energy radiates outward - but not equally - in all directions from the loudspeaker, and polar plots are used to show the pattern of the energy.

2. The degree off-axis where the radiated energy decreases by 6 dB as compared to the on axis level. These locations are referred to as the, "6 dB down points." Most often, the coverage pattern in equipment specifications is typically stated at the 6 dB down points.

Loudspeaker Coverage Formula - answer✓✓This is the formula for the diameter of the circle representing the coverage area of a loudspeaker:

$$D = 2 * (H - h) * \tan (C\angle / 2)$$

Where:

D is the diameter of the coverage area

H is the ceiling height

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AVIXA CTS-D Exam Certification Details:

Schedule Exam	Pearson VUE
Exam Code	CTS-D
Duration	180 mins
MemberExam Price	\$475(USD)
Passing Score	350 / 500
Number of Questions	135
Non-Member Exam Price	\$575(USD)
Exam Name	AVIXA Certified Technology Specialist - Design (CTS-D)

Real CTS-D Questions & Advanced CTS-D Testing Engine

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AVIXA CTS-D - Design Exam Syllabus Topics:

Topic	Weight
Duty A: Conducting a Needs Assessment	16.8%
Task 1: Identify Decision-makers and Stakeholders	1.6%
Task 2: Identify Skill Level of End Users	2.4%
Task 3: Educate AV Clients	1.6%
Task 4: Review Client Technology Master Plan	3.2%
Task 5: Identify Client Expectations	4%
Task 6: Identify Scope of Work	4%
Duty B: Coordinating with Other Professionals to Develop Project Documentation	23.2%
Task 1: Review A/E (architectural and engineering) drawings	4%
Task 2: Coordinate with architectural/interior design professionals	4%
Task 3: Coordinate with Mechanical Professionals	1.6%
Task 4: Coordinate with Structural Professionals	1.6%
Task 5: Coordinate with Electrical Professionals	3.2%
Task 6: Coordinate with lighting professionals	2.4%
Task 7: Coordinate with IT and network security professionals	4.0%
Task 8: Coordinate with acoustical professionals	1.6%

AVIXA Certified Technology Specialist - Design Sample Questions (Q14-Q19):

NEW QUESTION # 14

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

[Developing AV Designs/Create draft AV design]

Response:

- A. Serial control and video
- B. Video and microphone-level audio
- C. Speaker level audio and serial control
- D. Data network and line-level audio

Answer: A

NEW QUESTION # 15

Which device is used to convert analog video to digital video signals?

- A. Switcher
- B. DSP

- C. Encoder
- D. Amplifier

Answer: C

NEW QUESTION # 16

Which of the following cable types is most suitable for audio signals that require noise rejection?

- A. Shielded twisted pair (STP)
- B. Coaxial cable
- C. HDMI cable
- D. Unshielded twisted pair (UTP)

Answer: A

NEW QUESTION # 17

What is the primary role of a "mixer" in an audio system?

- A. To route video signals
- B. To convert audio to digital format
- C. To amplify signals
- D. To combine multiple audio inputs into one or more outputs

Answer: D

NEW QUESTION # 18

Which items are part of closeout verification?

Response:

- A. Equipment specifications
- B. Documentation of applicability
- C. Backing, blocking, and framing
- D. As-is/as-built system status

Answer: D

NEW QUESTION # 19

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