

Official AVIXA CTS Study Guide, Valid CTS Test Dumps



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AVIXA CTS Exam Syllabus Topics:

Topic	Details
Topic 1	Implementing AV Solutions: This section of the exam measures the skills of AV system integrators and focuses on the implementation of AV solutions. It involves integrating AV systems, verifying their functionality, and managing the integration process, including training, documentation, and ensuring operational readiness.
Topic 2	Creating AV Solutions: This section of the exam measures the skills of AV system designers and covers the process of creating audiovisual solutions. It includes conducting customer needs analysis, performing site surveys to assess environmental factors like lighting and acoustics, developing project scopes, and designing AV solutions with detailed drawings and materials lists.
Topic 3	Servicing AV Solutions: This section of the exam measures the skills of AV maintenance managers and focuses on the maintenance and repair of AV solutions. It involves supervising AV operations, conducting preventative maintenance, performing firmware and equipment upgrades, and troubleshooting and repairing AV systems to ensure they remain functional and efficient.

Topic 4	Supporting AV System Operation: This section of the exam measures the skills of AV support specialists and covers the ongoing support of AV systems. It includes troubleshooting issues, providing remote assistance, supporting live events, and offering in-room operation training to ensure smooth system operation.
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AVIXA CTS Exam Certification Details:

Number of Questions	110
Duration	150 mins
Exam Name	AVIXA Certified Technology Specialist (CTS)
Passing Score	350 / 500
Exam Code	CTS
Books / Training	Candidate Handbook
Non-Member Exam Price	\$475(USD)
Sample Questions	AVIXA CTS Sample Questions

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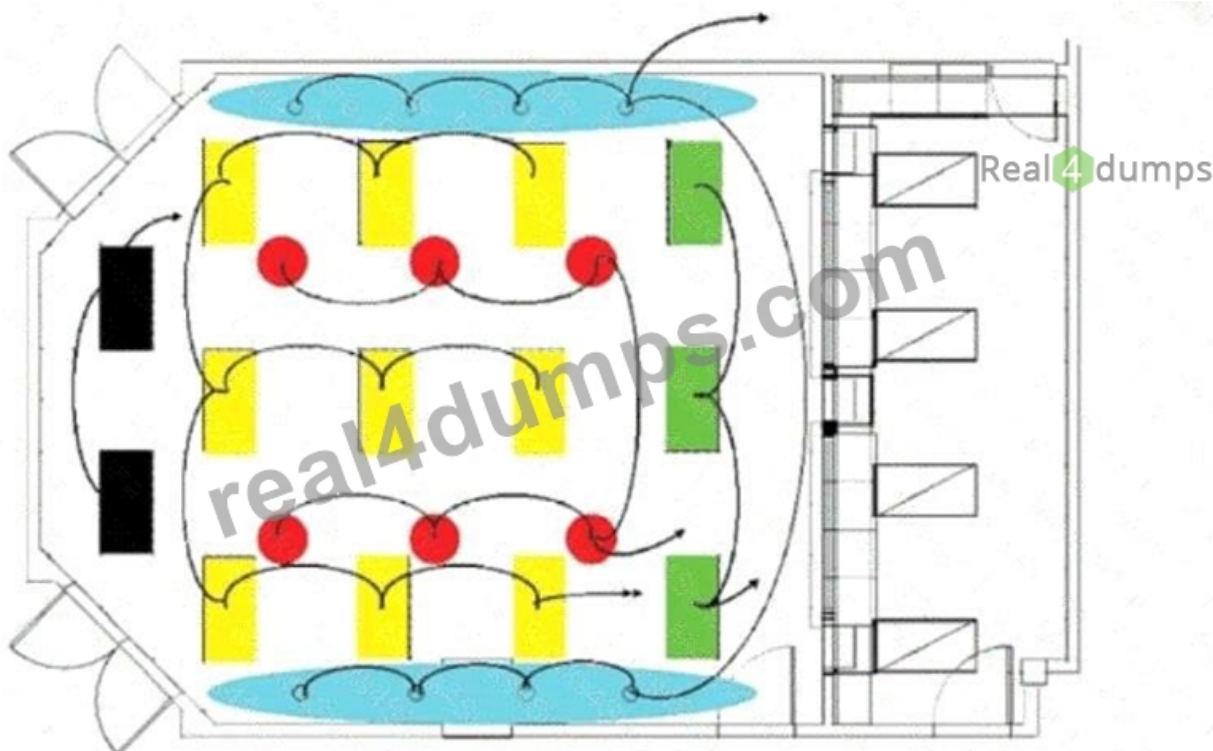
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AVIXA Certified Technology Specialist Sample Questions (Q31-Q36):

NEW QUESTION # 31

Image:



Based on this diagram, how many lighting zones are there?

- A. 0
- **B. 1**
- C. 2
- D. 3

Answer: B

Explanation:

In the diagram, lighting zones are typically defined by separate control paths or groups of lights that are independently operated. Each uniquely grouped set of lights shown with a distinct wiring loop or pathway represents one lighting zone.

Upon analysis:

* There are 6 clearly delineated lighting zones, each represented by a different control path (black arrows or loops) connecting light fixtures.

* These zones correspond to:

* Front center lighting area (yellow boxes)

* Rear center lighting area (yellow boxes)

* Left aisle lighting (green)

* Right aisle lighting (green)

* Front curved lighting (blue)

* Rear curved lighting (blue)

Each of these zones serves a different function (e.g., audience areas, presentation zones, ambient or pathway lighting), which aligns with typical AV environment lighting zoning strategy.

According to the AVIXA CTS Exam Guide, 5th Edition - Chapter 8: Lighting and Control, it states:

"Lighting zones are separated based on control, purpose, and placement. Zoning enables flexible lighting control schemes for AV spaces such as classrooms, conference rooms, and auditoriums."

- AVIXA CTS Exam Guide, Chapter 8, p. 173-175

References:

* AVIXA CTS Exam Guide, 5th Edition - Chapter 8: Lighting Systems & Control Zones

* AV Design Best Practices: ANSI/AVIXA D401.01:2019 - AV Systems Performance Verification

* AVIXA Body of Knowledge: Environmental Considerations in AV Design

NEW QUESTION # 32

An event planner for a banquet surrounding a swimming pool has requested that the pool be lit in the client's colors using underwater lighting. What does the technician need to consider?

- A. the ability to physically secure the fixtures underwater
- B. access to a grounded power supply
- C. whether the installing technicians are PADI certified
- **D. the IP rating of the fixtures**

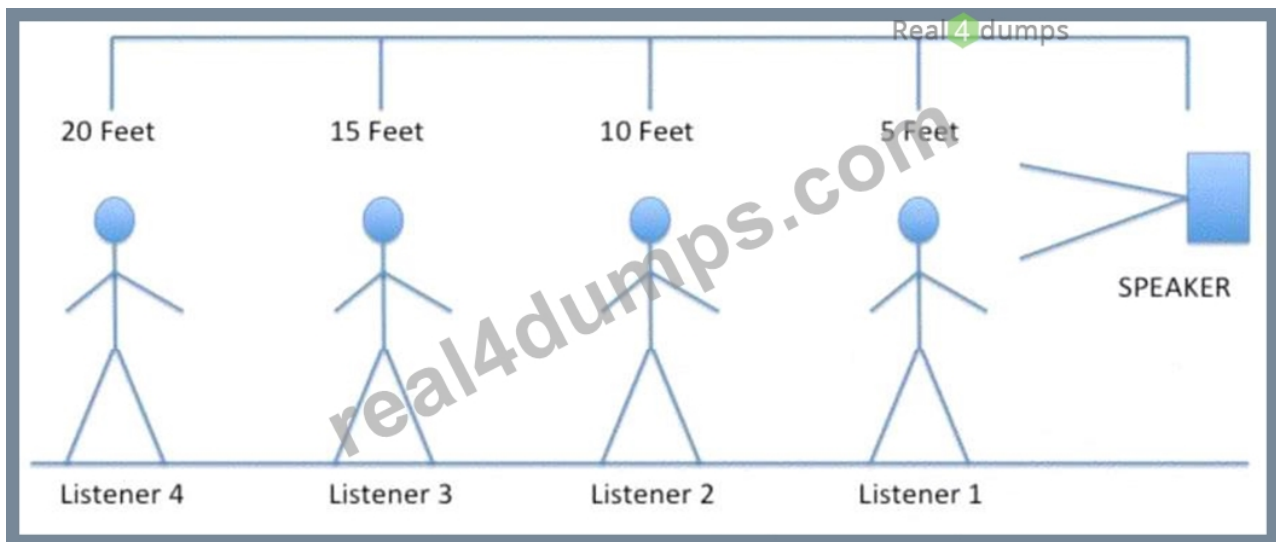
Answer: D

Explanation:

When installing underwater lighting in a swimming pool to match a client's colors, the technician needs to consider the IP rating of the fixtures. The IP rating indicates the level of protection the fixtures have against water and dust. For underwater lighting, it is crucial to use fixtures with a high IP rating (typically IP68) to ensure they are fully waterproof and safe to operate underwater. Axis Technology Specialist documentation emphasizes the importance of selecting appropriately rated equipment for specific environmental conditions to ensure safety and functionality.

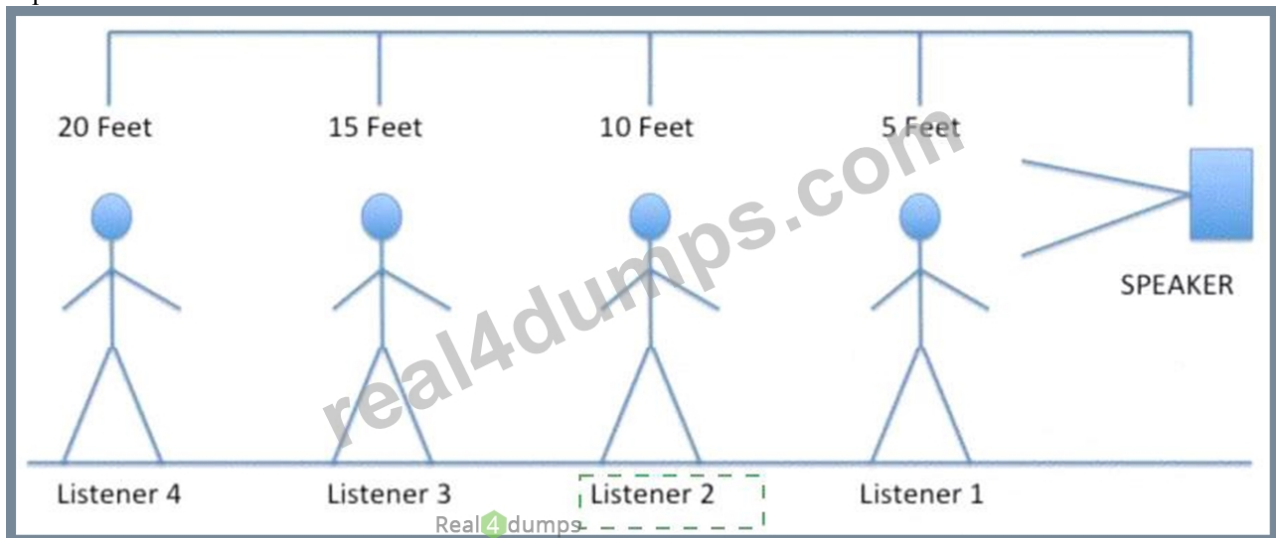
NEW QUESTION # 33

When compared to Listener 4, which listener simultaneously hears the speaker at +6db? Select the answer by clicking on the correct listener.



Answer:

Explanation:



Explanation:

Listener 2

In sound propagation, every doubling of distance from a sound source generally results in a decrease of approximately 6 dB in sound level due to the inverse square law. Conversely, when moving closer to the sound source, the sound level increases by approximately 6 dB each time the distance is halved.

Given Listener 4 is at 20 feet from the speaker:

- * Listener 3 is at 15 feet, which is closer but not a direct halving of Listener 4's distance, so the change is less than 6 dB.
- * Listener 2 is at 10 feet, which is half the distance of Listener 4 (20 feet). This halving of distance results in a sound level increase of approximately 6 dB.
- * Listener 1 is at 5 feet, which is closer than Listener 2 and results in a higher increase in dB compared to Listener 4.

CTS Technology Specialist Reference Understanding sound level changes over distance is essential in AV system design to ensure balanced audio coverage. The CTS materials cover the inverse square law extensively, explaining how sound pressure levels change as the distance from the sound source varies.

Listener 2, at half the distance from Listener 4, receives sound at +6 dB compared to Listener 4, aligning with this principle.

NEW QUESTION # 34

Invoicing clients, purchasing AV equipment and providing estimates are examples of which of the following types of work?

- A. project management
- B. installation
- C. design
- D. administration

Answer: D

Explanation:

Invoicing clients, purchasing AV equipment, and providing estimates are all tasks that fall under administration. These tasks involve organizational and financial management responsibilities essential for the operational side of AV projects.

CTS Technology Specialist Reference CTS resources categorize these activities as administrative functions essential for supporting the project lifecycle, from initial quoting to procurement and client billing. These tasks ensure smooth project execution by managing logistical and financial aspects.

NEW QUESTION # 35

When running audio in an enclosed booth, what feature is MOST important for the studio monitors used by the sound engineer?

- A. A subwoofer with a bass boost feature
- **B. Flat frequency response across the entire audio spectrum**
- C. Dolby Digital 5.1 surround sound
- D. Digital signal processing including acoustic echo cancellation

Answer: B

Explanation:

For critical listening environments like enclosed booths or mixing stations, the most important factor is a flat frequency response, meaning the monitors reproduce sound as accurately as possible, without coloration or enhancement.

"A flat response ensures that the sound engineer hears the audio signal as it truly is, which is essential for accurate mixing and mastering."

- AVIXA CTS Exam Guide, Audio Systems Chapter

NEW QUESTION # 36

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