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AVIXA Certified Technology Specialist Sample Questions (Q125-Q130):

NEW QUESTION # 125

When choosing an amplifier for a 70 V system, what amplifier output would be the BEST option for a space with 12 speakers, each tapped to 30 W?

- A. 1 channel, 500 W at 70 V
- B. 12 channel, 30 W at 8 #
- C. 2 channel, 200 W at 70 V
- D. 12 channel, 30 W at 70 V

Answer: A

Explanation:

In a 70 V distributed audio system, the total power requirement is the sum of the power taps of all speakers.

With 12 speakers each tapped at 30 W:

$12 \text{ speakers} \times 30 \text{ W} = 360 \text{ W}$

It's standard practice to add a 20% headroom to accommodate potential future expansions and to ensure the amplifier isn't operating at full capacity continuously:

$360 \text{ W} \times 1.2 = 432 \text{ W}$

Therefore, an amplifier that can deliver at least 432 W at 70 V is appropriate. Option A provides 500 W at 70 V, which meets this requirement with additional headroom, making it the best choice.

Reference: CTS Certified Technology Specialist Exam Guide, Third Edition

NEW QUESTION # 126

Which of the following is an EQ type?

- A. parametric
- B. gate
- C. limiter
- D. compressor

Answer: A

Explanation:

In audio technology, EQ (equalization) refers to the process of adjusting the balance between different frequency components of an audio signal. EQ types are specifically designed tools that allow sound engineers to manipulate frequencies in different ways. The types of EQ generally fall into categories like graphic, parametric, shelving, and band-pass, among others.

A parametric EQ is a type of equalizer that offers control over three primary parameters:

* Frequency - the specific frequency to be adjusted.

* Gain - the amount of boost or cut applied to the selected frequency.

* Q (Quality Factor) - the bandwidth or range of frequencies affected around the selected frequency.

Unlike other choices, a parametric EQ provides precise control over these settings, making it highly versatile in audio production.

The other options are not types of EQ but rather different types of audio processing tools:

* Gate: Used to control the amplitude of an audio signal, often to suppress noise below a certain threshold.

* Limiter: A dynamics processor that prevents a signal from exceeding a set level.

* Compressor: Reduces the dynamic range of an audio signal by attenuating louder parts above a threshold.

CTS Technology Specialist Reference

The use of parametric EQ is a standard practice in AV system design, as outlined in the CTS (Certified Technology Specialist) training materials, which discuss various EQ types and their applications in optimizing audio fidelity. Parametric EQs are favored in professional settings for their flexibility and control over specific frequencies, as compared to fixed-frequency or limited-band EQs.

NEW QUESTION # 127

For a design-bid (tender)-build project, the final step for determining the owner's costs for an AV system is

- A. having the owner approve the design.

- B. selecting an Integrator.
- C. performing a needs analysis.
- D. ensuring the equipment specification is ready for bid.

Answer: D

Explanation:

For a design-bid (tender)-build project, the final step for determining the owner's costs for an AV system is ensuring the equipment specification is ready for bid. This step involves finalizing all equipment details, specifications, and requirements so that accurate bids can be obtained from potential contractors. Axis documentation indicates that having precise and detailed equipment specifications is critical for obtaining accurate project costs and selecting the best contractor for the job.

Top of Form

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NEW QUESTION # 128

The MOST important information to come away with from an initial site survey is the

- A. key decision maker.
- B. overall scope AV solution needed.
- C. manufacturers which will be used in the AV system.
- D. final budget for the entire project.

Answer: B

Explanation:

During an initial site survey, understanding the overall scope of the AV solution provides the foundational insight needed for designing a system that meets client requirements. This ensures alignment with objectives and informs subsequent phases of the project.

CTS Technology Specialist Reference

The CTS curriculum advises focusing on the AV solution scope to guide design and implementation processes effectively, ensuring client needs are addressed.

NEW QUESTION # 129

A customer wants to set up a new digital classroom and has approached the integrator for a quote. What is the BEST way to understand the customer's needs before creating the quote?

- A. invite the customer to the office for a meeting
- B. have a manufacturer representative visit the customer
- C. inform the customer of new technologies
- D. invite the customer to similar installs

Answer: D

Explanation:

Inviting a customer to visit similar installations is an effective method to help them visualize potential solutions and understand how these systems might work in their environment. This approach provides real- world examples of AV technology in action, allowing customers to see the capabilities, configurations, and performance of systems similar to what they are considering. It also offers the customer a chance to ask questions and make informed decisions based on firsthand experience.

CTS Technology Specialist Reference

The CTS curriculum emphasizes the importance of understanding customer needs through various methods, including site visits and demonstrations. This approach aligns with the best practices for gathering detailed client requirements and providing tailored solutions.

NEW QUESTION # 130

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