

CTS Exam Format - CTS Exam Vce Format

CTS Exam Study Cards

Which type of server automatically assigns an IP address to the MAC address during the device's connection to a network? - ✓ ✓ A DHCP server automatically assigns an IP address to the MAC address during the device's connection to a network.

A simple dimmer rack is feeding 24 incandescent lights during a stage production. The rack is running on a steady 230v AC supply and averaging a current draw of approximately 98 amps. Suddenly the line voltage drops to 211v AC. Calculate the expected draw at this new voltage. - ✓ ✓ 90 Amps

While evaluating a potential AC conference room site, you notice the HVAC system appears to be introducing a substantial amount of noise into the environment. What should be your first course of action? - ✓ ✓ Ask to obtain measurements of the HVAC noise using a SPL meter (A Weighted). Record the measurements and provide them to the design team to articulate the implications to the client's site.

When working with a client to design an AV solution for a new conference center, the client requests a detailed budget for the equipment and installation. In what project phase does this occur? - ✓ ✓ Design Phase

AV Specialists determine the end users needs by examining three things: the required applications, the tasks, and - ✓ ✓ Function of the applications

When verifying a display system, what should be used to determine whether it meets a specified contrast ratio? - ✓ ✓ Spot Photometer

The question is to test familiarity with Ohm's Law and the relationships between voltage, current, and resistance. If the voltage decreases but the load remains constant, then the current must also decrease. So if the voltage falls from 230 to 211 volts then the current must fall proportionately. As $211/230 = .92$ the current drawn will be $98 \times .92 = 90.16$ (90 amps). **Note that incandescent lamps are a resistive load, not a constant power load such as an amp or a projector. The answer would be different with a constant power device.

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Exam Name	AVIXA Certified Technology Specialist (CTS)
Number of Questions	110
Sample Questions	AVIXA CTS Sample Questions
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AVIXA CTS Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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 2	<ul style="list-style-type: none">• 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 3	<ul style="list-style-type: none">• 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 4	<ul style="list-style-type: none">• 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.

AVIXA Certified Technology Specialist Sample Questions (Q66-Q71):

NEW QUESTION # 66

What is defined by a work breakdown structure (WBS)?

- A. Project schedule
- **B. Project scope**
- C. Project resources
- D. Project budget

Answer: B

Explanation:

A Work Breakdown Structure (WBS) is a hierarchical decomposition of the total scope of work to be carried out by the project team. It breaks down the project into smaller, more manageable components, providing a structured vision of what has to be delivered.

Reference: CTS Certified Technology Specialist Exam Guide, Third Edition

NEW QUESTION # 67

What device should be used to send a single video signal to several monitors?

- A. Matrix mixer
- B. Frame synchronizer
- C. Passive switcher
- **D. Distribution amplifier**

Answer: D

Explanation:

A distribution amplifier (DA) is designed to take a single input signal and replicate it across multiple outputs without degradation in quality. It maintains signal integrity across longer distances and multiple destinations, which is essential when distributing video to several monitors.

Reference: CTS Certified Technology Specialist Exam Guide, Third Edition - Chapter on Signal Distribution Systems

NEW QUESTION # 68

While troubleshooting a DSP, the AV technician notices that the DHCP server has failed due to the control system not being able to control the volume of the DSP. In order to restore the same IP, the control programmer requires a unique identifier assigned to the network interface card of the DSP. What is the name of that address?

- **A. media access control**
- B. internet protocol address
- C. digital multiplex exchange address
- D. network address translation

Answer: A

Explanation:

Comprehensive Detailed Explanation with all Technology Specialist References:

The unique identifier assigned to a network interface card (NIC) is known as the Media Access Control (MAC) address. A MAC address is a hardware address that is permanently embedded into the network interface of a device, such as a DSP, and is used to uniquely identify it on a local network.

When DHCP fails, the control programmer may need the MAC address to reassign the same IP address, as DHCP reservations are often based on MAC addresses. This ensures that devices receive a consistent IP address each time they connect, which is crucial for network devices in an AV system that rely on static IPs for control purposes.

Option B, "internet protocol address," refers to the IP address, which is assigned to a device but not unique to the hardware, as it can change over time. Option C, "network address translation," is a method for modifying IP address information as it passes through a router. Option D, "digital multiplex exchange address," is not relevant in this context and does not pertain to IP networking or AV control systems.

CTS References: AVIXA CTS Exam Guide, Chapter on Networking Fundamentals; CTS Handbook, Section on Network Addressing and IP Allocation.

NEW QUESTION # 69

Identify the portion of the connector that carries the signal. Select the answer by clicking anywhere on the correct part of the connector.



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Answer:

Explanation:



Explanation:

The tip portion of the connector.

This is a 1/4-inch TS (Tip-Sleeve) connector, commonly known as an unbalanced mono plug. For these connectors, the tip is the portion responsible for carrying the signal, while the sleeve serves as the ground or return path. In audio applications, TS connectors are typically used for unbalanced signals, such as instrument cables for guitars.

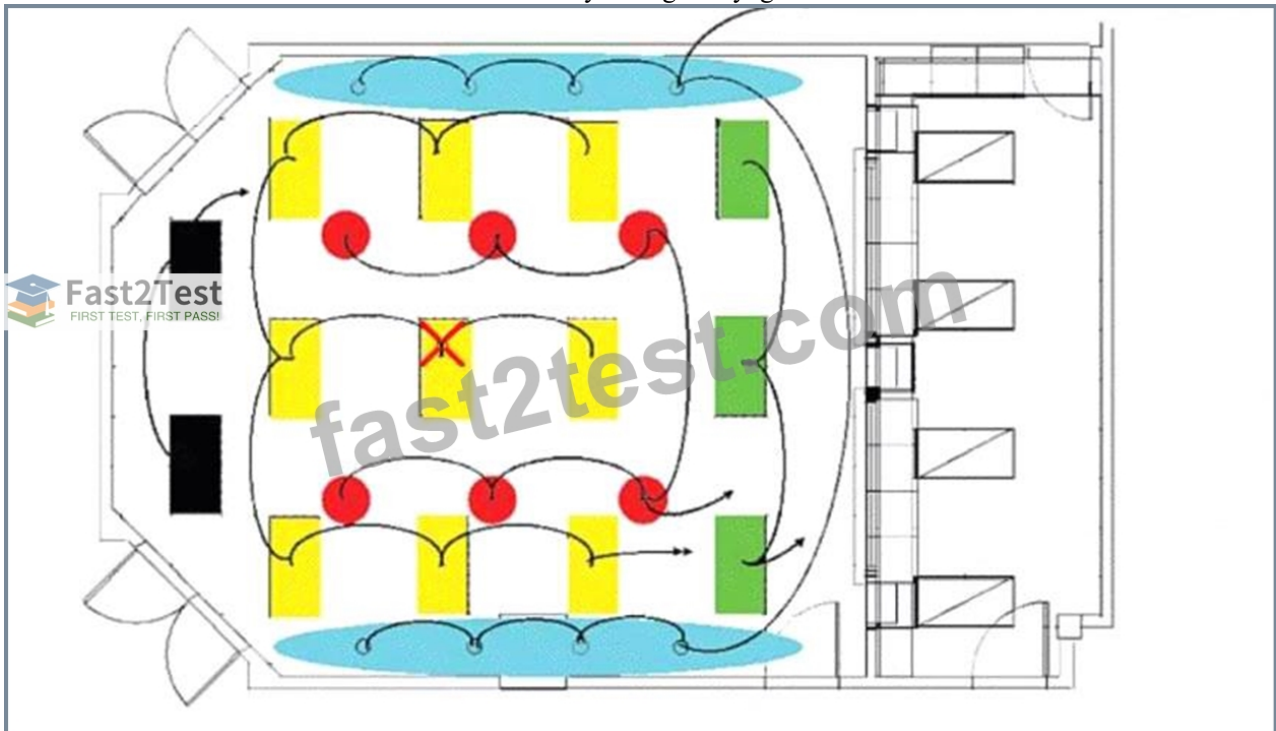
* The tip of the connector is at the very end, identifiable by the small section separated by an insulating ring. This section is where the signal travels.

* The sleeve is the long metal section that connects to the ground.

CTS Technology Specialist Reference The CTS materials on audio connectors detail how TS connectors carry signals, with the tip designated for signal and the sleeve for ground. Recognizing the signal-carrying part is crucial for proper AV connections and troubleshooting.

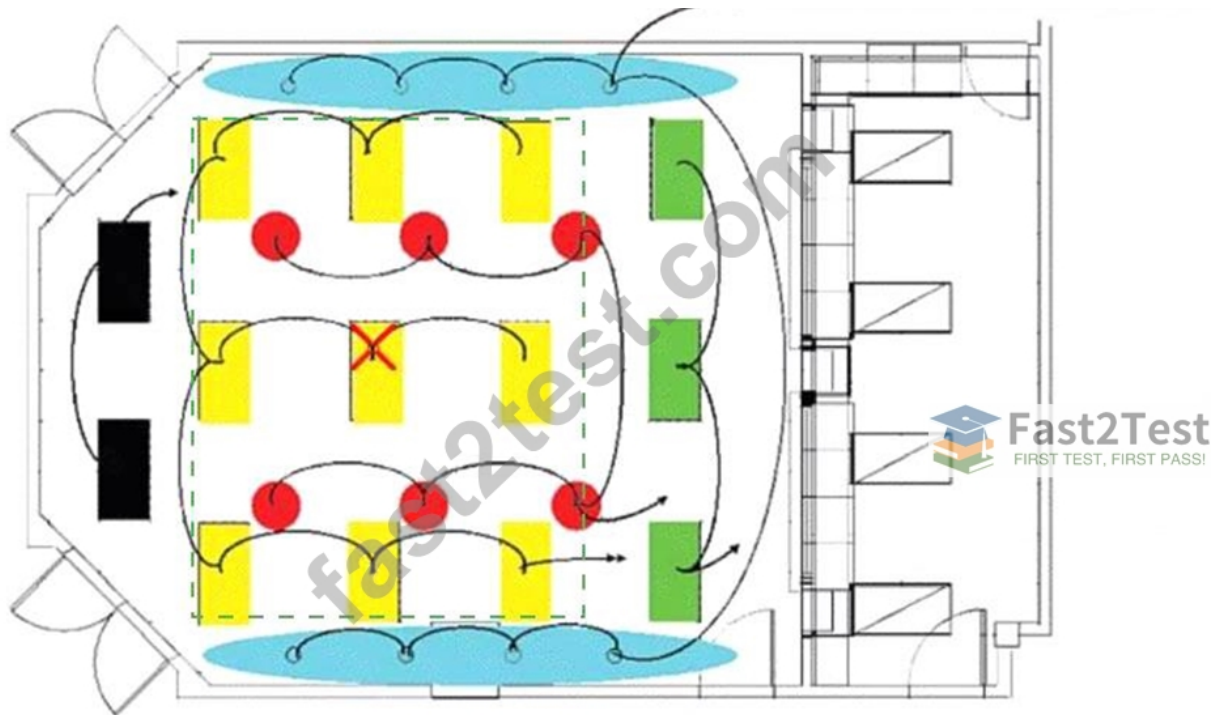
NEW QUESTION # 70

The video conferencing suite shown has a large conference table centered in the room. Dimming which of the COLORED zones would tend to decrease facial shadows? Select the answer by clicking on any light fixture within a zone.



Answer:

Explanation:



Explanation:

Yellow-colored zones (any light fixture within the yellow zones directly above the seating area).

In video conferencing, balanced and well-placed lighting is crucial for achieving good facial visibility and reducing harsh shadows. Overhead lights can cast shadows on participants' faces, particularly under the eyes and nose, which can detract from a professional appearance on camera. By dimming lights directly above (in this case, the yellow zones), you reduce the intensity of the light falling straight down onto faces, softening shadows and creating more even lighting.

Dimming lights in the green or blue zones would be less effective, as they are positioned at the perimeter of the room and provide indirect lighting that does not directly influence facial shadows over the conference table.

CTS References: AVIXA CTS Exam Guide, Chapter on Lighting Considerations for Video Conferencing; CTS Handbook, Section on Proper Illumination Techniques for AV Environments.

NEW QUESTION # 71

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