

Free Questions for CTS

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Question 1

Question Type: MultipleChoice

When connecting two switches with multiple VLANs, which function should be setup in order to pass all the packets from one switch to the other?

Options:

- A- trunk line
- B- multicast routing
- C- QoS (Quality of Service)
- D- SFP (Small Form-factor Pluggable)

Answer:

A

Explanation:

A trunk line should be set up when connecting two switches with multiple VLANs. A trunk line allows the passage of traffic for multiple VLANs between switches. It tags the packets with the appropriate VLAN identifier, enabling the switches to properly route the traffic to

the correct VLANs. This setup is essential for maintaining network segmentation and ensuring that all VLAN traffic is transmitted across the network as intended. Trunk lines are a standard networking practice for managing VLAN traffic between switches efficiently.

Question 2

Question Type: MultipleChoice

When considering the security of AV equipment residing on the client network, what is the MOST important step to take to keep the equipment safe from hackers before connecting the equipment to the network?

Options:

- A- assign an isolated subnet
- B- change the default passwords
- C- lock out the front panel buttons
- D- mount the equipment to the rack with security screws

Answer:

B

Explanation:

Changing the default passwords is the most important step to secure AV equipment before connecting it to the network. Default passwords are widely known and can easily be exploited by hackers. By changing these passwords to strong, unique ones, the risk of unauthorized access is significantly reduced. This is a fundamental security practice to protect networked equipment. Ensuring strong passwords helps prevent potential breaches, safeguarding the AV equipment and the broader network it is connected to.

Question 3

Question Type: MultipleChoice

What should an AV integrator provide to a general contractor to ensure the supporting trades get the AV information that is needed?

Options:

- A-** bld drawings
- B-** permit drawings
- C-** as-built drawings

D- construction drawings

Answer:

D

Explanation:

AV integrators should provide construction drawings to a general contractor. These drawings contain detailed information about the AV system layout, including locations of equipment, wiring paths, and installation requirements. Construction drawings ensure that all supporting trades, such as electrical and carpentry, have the necessary details to accommodate AV system installations. They coordinate the work of different trades to avoid conflicts and ensure proper implementation. Construction drawings are essential for aligning the AV system installation with the overall building construction process, ensuring accuracy and efficiency.

Question 4

Question Type: MultipleChoice

What key specification of an owner furnished credenza will a technician need to know that may impact the warranty of the AV equipment?

Options:

- A- the door hardware and swing operation
- B- the finished pattern, material, and application
- C- the amount of air that moves through the credenza
- D- the quality, size, and availability of cable grommets

Answer:

C

Explanation:

The amount of air that moves through the credenza is crucial because AV equipment generates heat during operation. Proper ventilation ensures that the equipment does not overheat, which can cause damage and impact performance. Overheating can void warranties as manufacturers typically specify operational temperature ranges and ventilation requirements. Ensuring adequate airflow is a common stipulation in AV equipment warranties. Proper ventilation helps maintain optimal operating conditions, thereby protecting the equipment and upholding warranty terms.

Question 5

Question Type: MultipleChoice

An integrator has to upgrade a camera system in an existing board room. What is the MOST IMPORTANT information to gather on the site visit?

Options:

- A- cable length
- B- ambient lighting placement
- C- resolution of camera system
- D- distance from the lens to first participant

Answer:

D

Explanation:

The most important information to gather on a site visit when upgrading a camera system in an existing boardroom is the distance from the lens to the first participant. This measurement is crucial for determining the appropriate camera lens and its focal length to ensure all participants are clearly visible within the camera's field of view. It also affects the placement and angle of the camera to achieve the best possible coverage. Axis Technology Specialist documentation emphasizes the importance of precise measurements and placement to optimize camera performance and video quality in boardroom settings.

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Question 6

Question Type: MultipleChoice

When is the optimal time to conduct training of end users in a new AV installation?

Options:

- A-** after all participants have reviewed equipment manuals
- B-** when all users of the facility can be trained at the same time
- C-** at the time of system handover with accompanying user guides
- D-** during installation so that the system can be configured and modified in line with the user's knowledge

Answer:

C

Explanation:

The optimal time to conduct training of end users in a new AV installation is at the time of system handover with accompanying user guides. This ensures that users receive hands-on training with the actual equipment they will be using, allowing them to understand its operation fully and ask questions while a technician is present. Providing user guides during this time also gives them a reference to consult after the training session. Axis Technology Specialist documentation stresses the importance of comprehensive training and support at the system handover phase to maximize user proficiency and satisfaction.

Question 7

Question Type: MultipleChoice

"Shock Loads" for equipment mounts refer to

Options:

- A-** suspended equipment not electrically isolated from its mounting structure.
- B-** sudden additional loads from earthquakes or personnel hanging from the mounts.

C- calculated counterweight required to balance an offset load on a cantilever mount.

D- calculated isolation required to eliminate vibration otherwise transferred to the building structure.

Answer:

B

Explanation:

'Shock Loads' for equipment mounts refer to sudden additional loads from earthquakes or personnel hanging from the mounts. Shock loads are unexpected forces that can be significantly higher than normal operating loads and can cause structural failures if not properly accounted for. This is particularly important in areas prone to seismic activity or where equipment might be subjected to additional stresses. Axis Technology Specialist documentation highlights the need to design mounts and supports to withstand such shock loads to ensure the safety and durability of the installation.

Question 8

Question Type: MultipleChoice

According to AVIXA Standards, what is the MINIMUM load rating for truss that will hold a 5000 lbs (2268 kg) LED wall?

Options:

- A- 15000 lbs (6804 kg)
- B- 25000 lbs (11340 kg)
- C- 30000 lbs (13608 kg)
- D- 50000 lbs (22678 kg)

Answer:

B

Explanation:

According to AVIXA standards, the minimum load rating for a truss that will hold a 5000 lbs (2268 kg) LED wall is typically calculated with a safety factor to ensure stability and safety. The safety factor generally used in rigging and truss systems is 5:1. This means the truss should be rated to hold five times the weight of the load it needs to support.

Given this safety factor:

$$5000\text{ lbs} \times 5 = 25000\text{ lbs}$$

Therefore, the minimum load rating required for the truss to safely support a 5000 lbs (2268 kg) LED wall is 25000 lbs (11340 kg).

AVIXA Rigging Guidelines

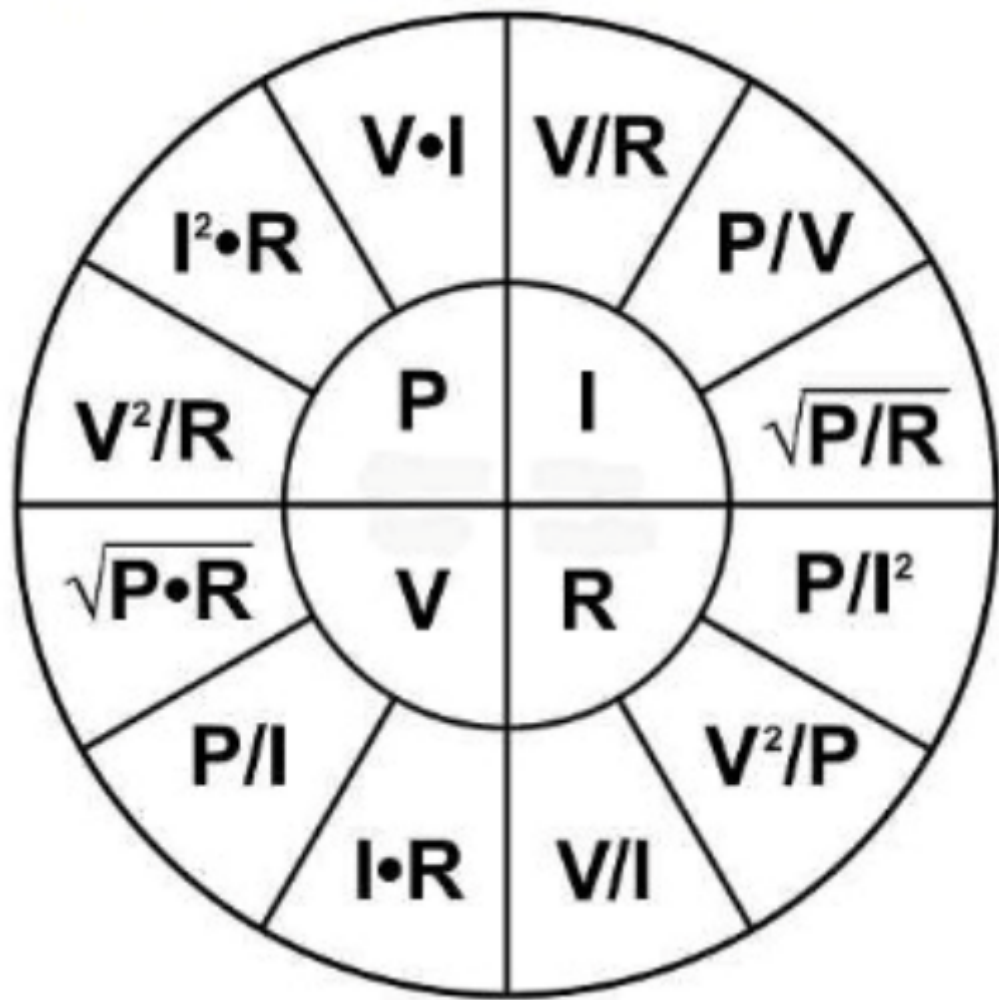
Understanding Load Ratings and Safety Factors

Rigging and Load Calculations in AV Installations

Question 9

Question Type: Hotspot

Which section of the Ohm's Law chart would you use to calculate watts? Select the coned quadrant.



Question 10

Question Type: MultipleChoice

In a request for proposal (RFP) document, what would be the BEST place to find the overall expectations and contractual requirements for the project?

Options:

- A- scope of work
- B- block diagram
- C- bill of materials
- D- system drawings

Answer:

A

Explanation:

The Scope of Work (SOW) section in an RFP document outlines the overall expectations and contractual requirements for the project. It provides a detailed description of the work to be performed, including deliverables, timelines, and specific tasks. The SOW ensures that

all parties have a clear understanding of the project's objectives and responsibilities, serving as the foundation for the project's execution and management.

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Question 11

Question Type: MultipleChoice

The integrator gets an urgent service call from the client's AV engineer that there is no power indication on the HDMI switcher in the rack. What is the BEST workaround that the integrator can suggest?

Options:

- A- call the manufacturer for support
- B- change the power supply of the faulty unit
- C- bring in another switcher to replace the broken one

D- patch the Input to the output, bypassing the switcher

Answer:

D

Explanation:

The best immediate workaround is to patch the input directly to the output, bypassing the switcher. This allows the system to continue functioning while a more permanent solution is found. It ensures that the client experiences minimal downtime and disruption. Changing the power supply or replacing the switcher are also viable options, but they may take more time and resources. Calling the manufacturer for support can also be part of the solution process, but it doesn't provide an immediate workaround.

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