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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Data Centre Environmental Considerations and Efficiency: This section evaluates the proficiency of data center professionals in addressing environmental factors and promoting efficiency within data center operations. The target audience, including data center managers and engineers, will be tested on their ability to identify and implement measures that enhance energy efficiency, cooling management, and sustainable practices.
Topic 2	<ul style="list-style-type: none">• Data Centre Life Cycle and Standards: This section of the exam measures the skills of data center professionals and covers the various stages involved in the life cycle of a data center, from planning and design to implementation and decommissioning.
Topic 3	<ul style="list-style-type: none">• Designing and Implementing a Data Centre: In this module, the exam assesses the knowledge of Exin data center professionals tasked with the design and implementation of data centers. Candidates will learn the key principles of creating an efficient data center layout, including considerations for scalability, redundancy, and security.

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EXIN EPI Certified Data Centre Specialist Sample Questions (Q46-Q51):

NEW QUESTION # 46

What is the main reason to install Earth Leakage protection?

- A. Protection of human lives
- B. Protection of ICT equipment against high-frequency noise currents
- C. Protection against lightning strikes
- D. Improvement of the data center grounding/earthing system

Answer: A

Explanation:

Earth Leakage Protection is primarily installed to protect human lives by detecting and disconnecting power when a fault current flows to the ground. This type of protection is essential to avoid electrical shock hazards that could occur when insulation fails, or equipment is improperly grounded.

Detailed Explanation:

Earth leakage currents can occur due to insulation faults or accidental contact with live parts. Earth Leakage Protection systems, such as Residual Current Devices (RCDs), quickly detect these faults and disconnect the circuit to prevent harm to personnel. This is especially crucial in environments like data centers where high-powered equipment is continuously running and any electrical fault can pose significant safety risks.

EPI Data Center Specialist References:

EPI emphasizes that human safety is paramount in data center operations. Proper grounding and leakage protection are fundamental safety measures, and EPI guidelines align with this focus, underscoring the importance of protecting personnel from electrical hazards through appropriate safety systems.

NEW QUESTION # 47

EMF shielding material needs to be installed as EMF levels from the transformer room into the computer room are measured at 100 mG. The transformer room is ~10 meters away, separated by a corridor. Where should shielding be installed?

- A. Shielding is not required as 100 mG is within acceptable levels
- B. As close as possible to the computer room
- C. As close as possible to the transformer room
- D. It does not matter; either close to the transformer room or computer room is okay

Answer: C

Explanation:

The most effective EMF mitigation is to install shielding as close as possible to the source of radiation. By blocking or redirecting magnetic flux at the origin (the transformer room walls), the overall field propagation into adjacent areas is minimized. If shielding were placed at the computer room, the field would already have spread over the intervening space, requiring more material and higher cost.

Standards such as IEEE Std 299 (EMC Shielding Effectiveness) and IEC 61000 emphasize source-based mitigation. Additionally, ANSI/TIA-942 requires EMF shielding where magnetic flux exceeds recommended ICT thresholds (generally <5 mG for sensitive tape/disk storage).

Although 100 mG is often tolerated by modern equipment, legacy magnetic storage can be affected, so shielding is still prudent. Hence, the correct location is at the transformer room wall.

References: IEEE Std 299 (EMI Shielding), ANSI/TIA-942-B §6.6.4 (EMF Requirements), IEC 61000 EMC standards.

NEW QUESTION # 48

The humidity in the computer room has increased from about 60% up to 85% Relative Humidity (RH). What potential risk does this pose to your equipment?

- A. The electrostatic discharge (ESD) levels will go up
- B. The risk of excessive wear and corrosion will increase

- C. No risks at all
- D. There will be a cooling risk due to a high wet bulb temperature

Answer: B

Explanation:

High relative humidity (above 80%) creates a serious risk for corrosion of electronic contacts, printed circuit boards (PCBs), and metallic components. Moisture in the air condenses more easily, especially when surfaces are cooler than ambient dew point. This can lead to oxidation of connectors, degradation of solder joints, and eventual failures in ICT hardware.

Electrostatic discharge (ESD) risks, by contrast, increase at low humidity (below 30%) because dry air promotes charge buildup. Therefore, option C is incorrect here. Similarly, option D (cooling risk from wet- bulb temperature) applies to evaporative cooling efficiency, not directly to ICT risk.

ASHRAE recommends data centers maintain RH between 40-60% for optimal reliability. Values above 80% RH are considered outside the recommended operating envelope and significantly increase the risk of corrosion, especially in the presence of airborne contaminants like sulfur dioxide (SO₂) or hydrogen sulfide (H₂S).

Therefore, the verified risk at 85% RH is corrosion-related degradation.

References: ASHRAE TC 9.9 Thermal Guidelines (2016 Edition, Table 4.1), IEC 60721-3-3 Environmental Conditions for ICT Equipment.

NEW QUESTION # 49

In order to save energy, you are going to install an automated system to switch off lights. What should be taken into consideration when installing such a system?

- A. The system should not be based on motion detection as the lights might suddenly switch off while staff is still at work.
- **B. At all times, the levels should allow for security cameras to function properly.**
- C. Security guards should perform regular inspections verifying the system works.
- D. It is not advisable to use such a system since it will reduce the lifetime of LED lighting.

Answer: B

Explanation:

When installing an automated lighting system, especially in a security-sensitive area like a data center, it's essential to ensure that lighting levels support security camera functionality at all times. Sufficient lighting is necessary for cameras to capture clear footage, ensuring continuous monitoring and security regardless of occupancy.

Detailed Explanation:

Automated lighting based on occupancy or time settings can reduce energy costs, but it must be configured to maintain adequate illumination for surveillance. Security cameras require minimum lighting levels to operate effectively, so lighting should be configured to avoid compromising security.

EPI Data Center Specialist References:

EPI emphasizes security and safety in data centers, advising that lighting systems should maintain levels conducive to effective surveillance, ensuring operational security even when lights are automatically controlled.

NEW QUESTION # 50

Is it allowed to make design changes during the implementation phase?

- A. Any change is fine as long as it is within the scope of the project.
- B. Yes, but only when time to implement is not exceeded.
- **C. Only when there is a strong business and/or technical justification.**
- D. No, after a design freeze no further changes are allowed.

Answer: C

Explanation:

Design changes during the implementation phase are generally allowed only when there is a strong business and/or technical justification. Changes at this stage can lead to delays, increased costs, or compromise design integrity. Thus, a rigorous assessment is required to ensure any modifications are essential and provide clear benefits or address critical issues.

Detailed Explanation:

Changes post-design freeze should be minimized to avoid scope creep and additional costs. However, if a technical issue arises that would affect operational goals, or a business need warrants modification, justified changes are permissible, following an impact

assessment and approval process.

EPI Data Center Specialist References:

EPI project management guidelines recommend a controlled change management process during implementation, allowing changes only when they align with critical objectives or address unforeseen issues that affect the project's success.

NEW QUESTION # 51

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