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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">• 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.

Topic 3	<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.
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EXIN EPI Certified Data Centre Specialist Sample Questions (Q78-Q83):

NEW QUESTION # 78

You are working on the design of a new facility. The electrical riser of the building with high current power is located close to the area where sensitive IT equipment in the computer room will be located.

What should you recommend to reduce the amount of EMF coming from the electrical riser?

- A. Install three-phase power cabling based on a combined cable (e.g. XLPE etc.)
- B. Install single-phase power cabling
- C. Install three-phase power cabling based on three individual core wires
- D. Install bus bar trunking

Answer: A

Explanation:

To reduce Electromagnetic Fields (EMF) emanating from the electrical riser near sensitive IT equipment, three-phase power cabling in a combined cable (such as XLPE) is effective. Combined cabling helps reduce EMF by keeping the conductors tightly packed, which minimizes magnetic fields generated by current flow.

Cables like XLPE (cross-linked polyethylene) also offer better insulation, which helps mitigate EMF interference with nearby IT equipment.

Detailed Explanation:

Using a combined three-phase cable reduces EMF because the magnetic fields generated by each phase tend to cancel each other out when in close proximity. This arrangement helps reduce the overall magnetic field strength. In addition, XLPE and similar materials provide good insulation, making them a preferred choice for reducing EMF emissions around sensitive equipment.

EPI Data Center Specialist References:

EPI data center best practices recommend mitigating EMF interference through combined cabling arrangements, especially near areas where sensitive IT equipment is located. Reducing EMF is crucial to maintaining equipment reliability and ensuring compliance with safety standards.

NEW QUESTION # 79

A data center scores Rated-3 in mechanical, Rated-4 in electrical, and Rated-2 in architectural.

What is the overall Rating of this data center when the Rating is based on the ANSI/TIA-942?

- A. Rated-4 since that is the highest rating received
- B. Rated-4 since electrical is more important than mechanical and architectural
- C. Rated-2 since that is the lowest rating received
- D. Depends on the Rating scored in telecommunications

Answer: C

Explanation:

According to ANSI/TIA-942 standards, the overall data center rating is determined by the lowest rating among all evaluated categories. Therefore, if a data center is rated 2 in architectural, despite being rated higher in mechanical and electrical, the overall rating is Rated-2. This approach ensures that all aspects meet a minimum standard and prevents a higher rating if any critical area does not comply.

Detailed Explanation:

ANSI/TIA-942 evaluates data centers across several areas, including mechanical, electrical, architectural, and telecommunications. The overall rating reflects the lowest rated category, ensuring that no aspect of the data center's design or operation falls below the specified level. Thus, in this case, the architectural rating of 2 dictates the final rating, ensuring a comprehensive and balanced assessment of reliability and resilience across all aspects.

EPI Data Center Specialist References:

EPI Data Center Specialist training aligns with ANSI/TIA-942, stating that the final rating must reflect the lowest score to ensure comprehensive reliability across all critical infrastructure categories. This avoids overstating the data center's resilience and ensures uniform standards across areas.

NEW QUESTION # 80

What mainly affects the cooling capacity of a raised floor tile?

- A. Relative humidity in the computer room, temperature of the cold air, pressure under the raised floor, construction material of the tile
- B. Percentage of the surface opening, airflow direction of the ICT equipment, temperature difference between the air intake and air exhaust of the ICT equipment, construction material of the tile
- C. Percentage of the surface opening, obstruction of the supporting construction, pressure under the raised floor, damper construction
- D. Type of ICT equipment, location of the air conditioner, pressure under the raised floor, allowable temperature in the hot aisle

Answer: C

Explanation:

The cooling capacity of a raised floor tile is primarily influenced by the percentage of surface opening, the obstruction caused by the supporting construction, the pressure under the raised floor, and the damper construction. These factors dictate how much airflow can pass through the tile and how effectively cool air is distributed to the equipment in the data center.

Detailed Explanation:

The percentage of surface opening on a floor tile affects how much air can flow through, with larger openings allowing more airflow. Supporting structures beneath the floor can obstruct airflow, reducing cooling efficiency. Pressure under the raised floor impacts the velocity and volume of air that moves through the tile. Additionally, if dampers are installed, they control the airflow rate, which can be adjusted to meet specific cooling needs for the area.

EPI Data Center Specialist References:

EPI guidance on airflow management under raised floors emphasizes these factors as critical for effective cooling, especially in high-density areas. Ensuring unobstructed and adequate airflow helps maintain consistent cooling across equipment.

NEW QUESTION # 81

You are allowed to use a calculator for this question. A battery bank is rated at a total capacity of 600 Ah. Calculate how much charging current the rectifier should be able to supply as charging current.

- A. 12 Amperes
- B. 80 Amperes
- C. 60 Amperes
- D. 30 Amperes

Answer: D

Explanation:

To determine the charging current for a battery bank, a general rule of thumb is that the charging current should be 5% of the total battery capacity. For a battery rated at 600 Ah, this calculation would be:

$600 \text{ Ah} \times 0.05 = 30 \text{ Amperes}$ This ensures the battery is charged efficiently without overloading the rectifier or risking battery damage.

Detailed Explanation:

Battery charging current is typically set as a percentage of the battery's capacity to balance effective charging with longevity and safety. A 5% charging rate is standard for lead-acid batteries, which would be 30 Amperes for a 600 Ah battery bank.

EPI Data Center Specialist References:

EPI standards recommend calculating charging currents based on a percentage of the battery capacity to ensure safety and efficiency, aligning with best practices for battery management in data centers.

NEW QUESTION # 82

A sprinkler system employs automatic sprinklers attached to a piping system containing water and connected to a water supply so that water discharges immediately when a head opens. What is this called?

- A. Deluge system
- B. Pre-action system
- C. Wet pipe system

- D. Dry pipe system

Answer: C

Explanation:

In a wet pipe system, the piping is always filled with water under pressure. When a sprinkler head is triggered by heat, water is discharged immediately. This is the most common sprinkler system for general buildings.

* Dry pipe: Pipes contain air or nitrogen; water enters only after valve activation.

* Deluge: Pipes are empty, and all heads open simultaneously, releasing water everywhere.

* Pre-action: Pipes are dry until detection and valve activation; reduces accidental discharge risk, recommended for IT rooms.

Since the definition describes immediate discharge from water-filled pipes, this is a wet pipe system.

References: NFPA 13 §3.3 (System Definitions), NFPA 75 §5.4.3 (IT room considerations).

NEW QUESTION # 83

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