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EXIN CDCS Exam Syllabus Topics:

Topic	Details

Topic 1	<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 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"> 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.

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Testking CDCS Exam Questions & Latest CDCS Exam Review

Our CDCS training engine is revised by experts and approved by experienced professionals, which simplify complex concepts and add examples, simulations to explain anything that may be difficult to understand. Therefore, using CDCS Exam Prep makes it easier for learners to grasp and simplify the content of important CDCS information, no matter novice or experienced, which can help you save a lot of time and energy eventually.

EXIN EPI Certified Data Centre Specialist Sample Questions (Q14-Q19):

NEW QUESTION # 14

Which of the following statements is correct?

- A. With current decreasing, three-phase cables emit more EMF than single-phase cables
- B. With current increasing, single-phase cables emit more EMF than three-phase cables**
- C. With voltage increasing, single-phase cables emit more EMF than three-phase cables
- D. With voltage decreasing, three-phase cables emit more EMF than single-phase cables

Answer: B

Explanation:

Electromagnetic field (EMF) strength around cables is primarily influenced by current, not voltage. In a single-phase system, the live and neutral conductors are separated, creating a larger magnetic loop area. This produces stronger stray EMF when current increases.

In a balanced three-phase system, the magnetic fields from the three conductors largely cancel each other out, resulting in much lower net EMF, even at higher currents.

Therefore, the correct statement is that increasing current in single-phase cables produces higher EMF compared to three-phase cables. Options B, C, and D incorrectly link EMF to voltage or incorrect current behavior.

References: IEEE Std 141 (Red Book - Power Distribution), IEC 61000-5-7 (EMF mitigation guidelines), ANSI/TIA-942-B §6.6.

NEW QUESTION # 15

When installing a raised floor, can we use a spirit level bar to level the floor?

- A. Yes, but spirit level bars can only be used in the vertical plane.
- B. Yes, using a spirit level bar for raised floors higher than 40 cm is preferred.
- C. Yes, spirit level bars can be used as long as their length is longer than 60 cm/2 ft (the size of a typical raised floor tile).
- D. No, because using a spirit level bar, a measurement error will be transferred from pedestal to pedestal.**

Answer: D

Explanation:

A spirit level bar should not be used for leveling a raised floor, as measurement errors are likely to propagate from one pedestal to the next. Spirit levels can introduce cumulative errors, leading to uneven floors, particularly in large installations where precise leveling is critical.

Detailed Explanation:

Using a laser level or a precision leveling device is recommended to ensure accuracy across all floor tiles.

Spirit levels, while adequate for short spans, can transfer small inaccuracies from one pedestal to another, which can cause alignment issues and floor instability over time.

EPI Data Center Specialist References:

EPI data center guidelines discourage the use of spirit levels for raised floors. Instead, they advocate for precision tools like laser levels that ensure consistency and accuracy in large-scale installations, aligning with best practices for raised floor construction.

NEW QUESTION # 16

Three data centers are benchmarked on facilities energy efficiency.

Data center A has achieved a PUE of 2.45.

Data center B has achieved a PUE of 1.20.

Data center C has achieved a PUE of 1.90.

Which of the data centers is operating at the highest facility efficiency?

- A. Data center A
- B. Data center C
- C. Data center B
- D. PUE does not indicate efficiency

Answer: A

Explanation:

A Power Usage Effectiveness (PUE) of 1.20 (achieved by Data Center B) indicates the highest facility efficiency among the three data centers. A lower PUE value signifies better energy efficiency, as it means that a greater proportion of the total energy consumed is used directly for IT equipment rather than for cooling, lighting, or other facility needs.

Detailed Explanation:

PUE is calculated as the ratio of total facility energy to IT equipment energy. A PUE close to 1.0 suggests that almost all the energy is dedicated to computing processes, with minimal overhead. With PUE values of 2.45, 1.20, and 1.90, Data Center B (1.20) operates most efficiently by devoting a higher percentage of its total energy to IT equipment.

EPI Data Center Specialist References:

The EPI curriculum emphasizes PUE as a key metric for data center efficiency, with lower values representing better performance. Achieving a PUE near 1.0 aligns with industry best practices for energy-efficient data center design and operation.

NEW QUESTION # 17

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

Answer: C

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 # 18

Smoke sensors need to be tested to ensure that they pick up a potential fire in the data center. What should you recommend?

- A. Press the self-test button on each sensor in the data center
- **B. Test the sensors according to the vendor specification**
- C. Test the sensors by injecting smoke or simulated smoke directly into the sensor
- D. Inject smoke at the floor level

Answer: B

Explanation:

Testing smoke sensors should be conducted according to the vendor specifications to ensure compliance with safety standards and accurate results. Vendors provide specific testing procedures to account for the sensor type, environment, and operational characteristics, ensuring that tests do not damage the equipment or provide false results.

Detailed Explanation:

Smoke sensors can vary by type and sensitivity, so following the vendor's recommended testing procedure ensures the sensors function correctly without risking sensor damage. Injecting smoke or using a self-test might be insufficient or could lead to inaccurate assessments if they do not align with the vendor's testing protocol.

EPI Data Center Specialist References:

EPI recommends adhering to manufacturer specifications for testing critical safety equipment, ensuring that tests reflect real-world conditions without compromising sensor integrity or reliability.

NEW QUESTION # 19

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