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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 (Q102-Q107):

NEW QUESTION # 102

Do you need to consider blast protection when designing a data center?

- A. No, blast protection is not a requirement of ANSI/TIA-942.
- B. No, there is no reason for implementing blast protection as nobody can predict the impact of a bomb explosion.
- **C. Yes, if the data center is a potential target or the building is located within the vicinity of (close by) a potential target.**
- D. Yes, blast protection is a requirement of ANSI/TIA-942.

Answer: C

Explanation:

Blast protection should be considered if the data center or its location is a potential target or is near high-risk areas. Blast protection measures can protect both personnel and infrastructure from potential explosion impacts, which could be essential in areas with heightened security risks.

Detailed Explanation:

In areas where there may be risks of terrorist attacks or explosions due to nearby high-risk facilities, implementing blast protection measures helps safeguard the data center's infrastructure. These measures can include reinforced walls, blast-resistant windows, and secure entryways designed to withstand explosive forces.

EPI Data Center Specialist References:

While not specifically mandated by ANSI/TIA-942, EPI training advises considering local risk factors, including proximity to potential targets, when evaluating the need for blast protection. This approach is aligned with risk assessment and mitigation practices to ensure facility security.

NEW QUESTION # 103

What indicates the breaking capacity of a fuse or breaker?

- A. The current at which the device will trip.
- B. The maximum voltage, in case of an electrical surge, that the fuse or breaker can handle without being destroyed or causing an electric damaging arc.
- C. Mechanical strength of the casing of a fuse or breaker.
- **D. The current that a fuse or breaker is able to interrupt without being destroyed or causing an electric damaging arc.**

Answer: D

Explanation:

The breaking capacity of a fuse or breaker indicates the maximum current it can safely interrupt without being damaged or creating a dangerous arc. This value is crucial for ensuring that the device can handle fault conditions and prevent equipment damage or fire risks due to excessive current flow.

Detailed Explanation:

The breaking capacity, also known as the interrupting rating, ensures that the fuse or breaker can safely handle fault currents up to a specified limit. Exceeding this capacity could result in the device failing to interrupt the current, potentially causing hazardous conditions like electrical arcs.

EPI Data Center Specialist References:

EPI training underscores the importance of matching fuses and breakers with appropriate breaking capacities for the anticipated fault levels in data centers to ensure reliable and safe operation.

NEW QUESTION # 104

A 5kW (power consumption) server keeps crashing with the message 'temperature too high'.

The intake temperature is measured at 25 °C/77 °F and a relative humidity (RH) level of 50%.

The exhaust temperature is 29 °C/84 °F and 45% RH.

The raised floor is providing an adequate amount of CFM/CMH at a reasonable velocity.

The pressure under the raised floor is approximately 25 Pa/0.1 inch H₂O.

Analyze the situation and indicate what the most likely cause is for this server to crash.

- **A. Dust inside the server causing issues with convection-based heat transfer**
- B. No cause could be determined as the CFM/CMH of the air conditioning equipment is not stated
- C. The exhaust temperature is exceeding the ASHRAE recommended values
- D. The raised floor pressure is too low and/or the raised floor tile % opening is not adequate

Answer: A

Explanation:

The server's repeated overheating despite adequate intake and exhaust temperatures suggests that dust buildup inside the server may be impeding heat transfer. Dust accumulation can obstruct airflow within the server, insulate components, and disrupt the convection-based cooling systems that regulate internal temperatures, leading to overheating and potential hardware failures.

Detailed Explanation:

While the intake and exhaust temperatures appear within acceptable ranges, internal dust can reduce airflow and impede cooling efficiency, causing internal components to overheat despite seemingly normal ambient conditions. Regular cleaning and maintenance are critical for preventing dust-related issues, especially in high-powered equipment like a 5kW server.

EPI Data Center Specialist References:

EPI emphasizes regular maintenance to prevent dust buildup in data center equipment. Dust can significantly impact cooling efficiency and lead to overheating, which underlines the importance of routine cleaning for optimal server performance.

NEW QUESTION # 105

A data center is located in an area where the demand for power is higher than the utility power company is able to deliver. This results in frequent power outages and, therefore, power shedding (scheduled/controlled power shutdown for areas) is frequently applied. The mains power is more than 650 hours/year not available.

What type of generators should be installed?

- A. Continuous generators should be installed; no N+1 configuration is needed as the generators will run all the time
- B. Standby generators should be installed in at least an N+1 configuration
- C. A combination of standby-, prime-, and continuous-generators, as the duration of the power outage is unpredictable. The total available capacity of the generators should be at least 500% of the data center load
- **D. Continuous generators should be installed, at least in an N+1 configuration**

Answer: D

Explanation:

In areas with frequent and extended power outages, continuous generators with at least an N+1 configuration are necessary to ensure consistent power availability. Continuous generators are designed for prolonged operation, making them suitable for scenarios where utility power is frequently unavailable, as in this case with outages exceeding 650 hours per year. An N+1 configuration ensures redundancy, which is critical for maintaining uptime in a high-availability data center.

Detailed Explanation:

Continuous generators provide reliable power over long durations, unlike standby generators, which are intended only for short-term use. The N+1 configuration ensures that there is always an additional generator available in case of failure, thus maintaining power supply even if one generator goes offline.

EPI Data Center Specialist References:

EPI best practices recommend continuous generators with redundancy for data centers located in areas with high power instability to

maintain reliability and continuous operation.

NEW QUESTION # 106

When designing a data center network, your company wants to minimize the number of network switches to manage. What type of physical cabling layout would be the best choice?

- A. EoR (End of Row) design
- B. ToR (Top of Rack) design
- C. Star network design using coaxial cables
- D. It does not matter as the number of switches is not influenced by the physical cabling layout

Answer: A

Explanation:

An End of Row (EoR) design minimizes the number of network switches, as multiple racks can share a single switch at the end of a row, reducing switch counts and simplifying management. This design centralizes network switching to fewer points, which reduces the complexity and number of switches required compared to a Top of Rack (ToR) design, where each rack typically has its own switch.

Detailed Explanation:

In EoR designs, each row has a single network switch that handles the connections for all racks within that row. This reduces the number of individual switches needed and centralizes network management, which is ideal for minimizing equipment and simplifying infrastructure in the data center.

EPI Data Center Specialist References:

EPI promotes the EoR design as a way to reduce switch counts and streamline management in data centers.

This configuration allows for easier scaling and maintenance while maintaining efficient network connectivity.

NEW QUESTION # 107

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