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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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.

EXIN EPI Certified Data Centre Specialist Sample Questions (Q35-Q40):

NEW QUESTION # 35
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 H#O.
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. The exhaust temperature is exceeding the ASHRAE recommended values
- C. No cause could be determined as the CFM/CMH of the air conditioning equipment is not stated
- 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 # 36
What is a potential disadvantage of using water mist as a fire extinguishing system?

- A. It only uses 10% of the water normally used in a water-based fire suppression, which might not be enough to suppress the fire
- B. It has droplets that are too small (100-120 microns) so it can only be used for small fires

- C. It extracts oxygen from the air creating a potential risk for humans inside the computer room
- D. It will rapidly increase the humidity level in the data center, which can cause a potential risk for the operation of the equipment

Answer: D

Explanation:
A potential disadvantage of using a water mist fire suppression system is that it can rapidly increase the humidity within the data center, which may pose risks to sensitive electronic equipment. Excessive humidity can lead to condensation, which could damage electronics and lead to short circuits or corrosion over time.
Detailed Explanation:
Water mist systems use fine droplets to suppress fires by cooling and displacing heat. However, the moisture generated may raise the humidity level to the point where it exceeds safe operational limits for IT equipment.
Therefore, while water mist systems are effective in fire suppression, they may not be ideal in environments where high humidity could damage sensitive equipment.
EPI Data Center Specialist References:
EPI guidelines advise considering the impact of humidity from fire suppression systems, particularly in environments housing electronic equipment. It's essential to weigh the benefits of fire suppression against potential risks to operational equipment when choosing suppression methods.

NEW QUESTION # 37
Do you need to consider bullet (ballistics) protection when designing a data center?

- A. Bullet (ballistics) protection is only required if the facility is a potential target or the building is in the vicinity of a potential target.
- B. Bullet (ballistics) protection is required by ANSI/TIA-942 for data centers Rated 3/4.
- C. Bullet (ballistics) protection is only required when the data center is located in an area with a high crime rate.
- D. Bullet (ballistics) protection is required by ANSI/TIA-942 for all data centers.

Answer: A

Explanation:
Bullet (ballistics) protection is typically considered only for data centers that are potential targets or located near such targets. While ANSI/TIA-942 does not specifically require bulletproofing for all data centers, it is prudent to consider it based on location risk assessments, especially if the facility is in a high-risk area or near critical infrastructure that could attract threats.
Detailed Explanation:
Protective measures like bulletproofing depend on the threat landscape and the data center's exposure to risks such as crime or terrorism. Assessments for physical security are typically customized based on location-specific risks rather than being universally required by data center standards.
EPI Data Center Specialist References:
EPI guidelines emphasize customizing physical security measures based on threat assessments, suggesting that bulletproofing is appropriate in specific circumstances where the facility's risk profile justifies additional security measures.

NEW QUESTION # 38
What is the first step in the design stage of the data center life cycle?

- A. Select vendors
- B. Define the scope of the project
- C. Freeze the design
- D. Do a design validation

Answer: B

Explanation:
The life cycle begins with planning and design. The very first step is to clearly define the project scope:
business requirements, capacity, availability targets, compliance standards, and budget. Without scope definition, design validation or vendor selection would be premature.
* Vendor selection (A) happens much later during procurement.
* Validation (B) occurs after conceptual and detailed designs are prepared.

* Freezing design (D) is the final stage before implementation.
Therefore, defining the project scope is the correct initial step.
References: ANSI/TIA-942-B Annex F (Lifecycle), ISO/IEC 30182 (Smart City & DC Lifecycle), PMI PMBOK (Scope Definition).

NEW QUESTION # 39
What is a potential disadvantage of using a hypoxic-based fire suppression system as a fire extinguishing system?

- A. It can only be used in computer rooms which have sufficient air changes per hour.
- B. The gas containers need to be close to the hazard area.
- C. It can only be used in computer rooms where you have sufficient positive pressure.
- D. It can only be used in non-continuous occupied areas.

Answer: D

Explanation:
A hypoxic-based fire suppression system works by reducing the oxygen level in a room to below what is necessary to sustain combustion. This makes it effective in fire prevention, but it is not suitable for continuous occupancy by personnel. Low oxygen levels can cause discomfort or even health risks for people spending extended periods in the space. Therefore, these systems are typically deployed in areas where continuous human occupancy is not required, such as storage rooms or data halls with limited personnel access.
Detailed Explanation:
Hypoxic fire suppression systems lower oxygen levels to around 15-16%, which is safe for short periods but not sustainable for continuous occupancy without risk to health. Data center environments where staff need to spend long periods monitoring and maintaining equipment would need alternative systems, like gas-based suppression that allows for safe evacuation rather than oxygen reduction.
EPI Data Center Specialist References:
The EPI Data Center Specialist curriculum emphasizes that fire suppression systems must be chosen based on occupancy requirements. Hypoxic systems are specifically noted as unsuitable for spaces requiring continuous human presence due to the low oxygen environment they create.

NEW QUESTION # 40
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EXIN certification CDCS exams has become more and more popular in the fiercely competitive IT industry. Although more and more people sign up to attend this examination of, the official did not reduce its difficulty and it is still difficult to pass the exam. After all, this is an authoritative test to inspect the computer professional knowledge and information technology ability. In order to pass the EXIN Certification CDCS Exam, generally, many people need to spend a lot of time and effort to review.

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