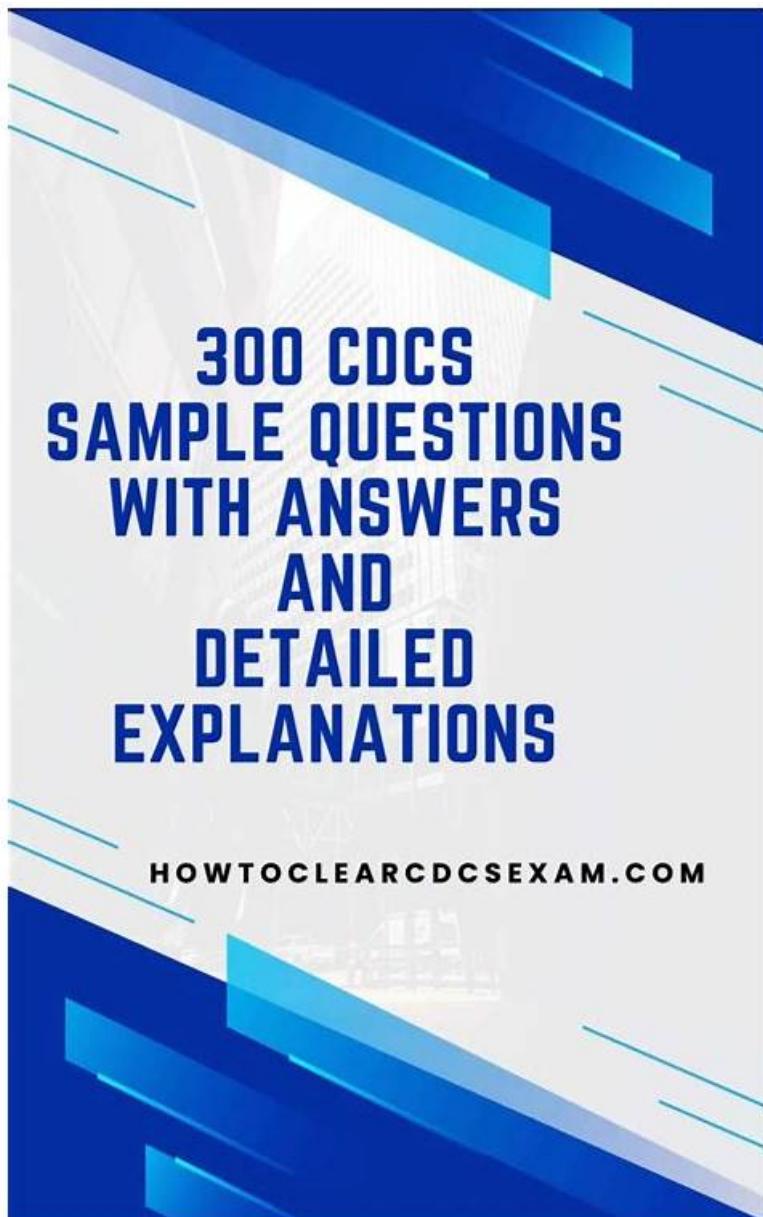


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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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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EXIN EPI Certified Data Centre Specialist Sample Questions (Q82-Q87):

NEW QUESTION # 82

The pipes of a VESDA smoke detection system are installed at the air intake of the air conditioner inside the computer room. Is this a good practice from an early smoke detection point of view?

- A. No, the piping should be installed at the air exhaust of the air conditioner, as there can also be a fire inside the air conditioner itself.
- B. Yes, as this reduces the amount of piping to be installed in the data center, as all air will go through the air conditioner.
- **C. No, it will give a longer reaction time for the smoke detection system and there might also be bypass airflow.**
- D. It depends on the type of gas-based fire suppression which will be installed.

Answer: C

Explanation:

For optimal early smoke detection in a data center, it is crucial that the Very Early Smoke Detection Apparatus (VESDA) system be installed at locations where smoke will be detected as soon as it appears. Positioning the VESDA pipes at the air intake of the air conditioner inside the computer room is not ideal. This placement could result in a delayed detection response and the potential for bypass airflow to occur, which would impede the system's ability to detect smoke effectively.

Detailed Explanation:

When VESDA pipes are installed at the air intake, the detection system relies on the smoke to be drawn into the air conditioning unit before detection can occur. This setup increases the reaction time as the smoke has to travel through the intake and get processed by the air conditioner. Furthermore, bypass airflow-a phenomenon where not all the air containing smoke particles passes through the VESDA pipes-could also delay or even prevent the system from detecting smoke early.

Ideally, VESDA pipes should be positioned where smoke is likely to accumulate first, such as near the ceiling or in the return airflow path to detect smoke at the earliest possible stage. This ensures that the detection system can quickly trigger alarms, providing more time to address potential fire hazards.

EPI Data Center Specialist References:

EPI Data Center Specialist training highlights that smoke detection should prioritize early response capabilities to maximize safety. The preferred installation for VESDA pipes is generally at points where smoke would naturally accumulate, rather than relying on air conditioning intakes where airflow can vary and delay detection. In their course materials, EPI emphasizes minimizing reaction time and reducing the impact of airflow dynamics on smoke detection efficiency.

NEW QUESTION # 83

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. Standby generators should be installed in at least an N+1 configuration
- B. Continuous generators should be installed; no N+1 configuration is needed as the generators will run all the time
- 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 # 84

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

Answer: B

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 # 85

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. Type of ICT equipment, location of the air conditioner, pressure under the raised floor, allowable temperature in the hot aisle
- D. Percentage of the surface opening, obstruction of the supporting construction, pressure under the raised floor, damper

construction

Answer: D

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 # 86

What should be implemented when an Inergen-based fire suppression system is installed in the computer room?

- A. Drainage system under raised floor
- **B. Pressure release valves in the data center**
- C. Proper water leak detection system
- D. Gas tanks need to be within or close to the data center

Answer: B

Explanation:

Inert gas systems (Inergen, Argonite, Nitrogen) extinguish fires by reducing oxygen concentration through massive gas discharge. This rapid release causes a significant pressure rise inside the room. To avoid structural damage to walls, ceilings, or raised floors, pressure relief vents (pressure release valves) must be installed.

* A (drainage) applies to water suppression.

* B (tank location) is logistical but not mandatory; remote storage with piping is acceptable.

* D (water leak detection) is unrelated to inert gas suppression.

Therefore, the critical safety requirement is pressure relief.

References: NFPA 2001 §5.2.1.2 (Pressure Relief), ISO 14520-1 §5.2.

NEW QUESTION # 87

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