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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">• 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	<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.

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EXIN EPI Certified Data Centre Specialist Sample Questions (Q113-Q118):

NEW QUESTION # 113

You have three UPS systems connected in parallel. The UPS systems have an imbalance in the load sharing of approximately 20%. What should you recommend?

- A. Review the harmonics levels within the computer room
- **B. Review the cable lengths of each UPS to the common busbar**
- C. Nothing, there is no reason for any concern
- D. Review the common mode noise levels within the computer room

Answer: B

Explanation:

An imbalance in load sharing between UPS systems connected in parallel can often result from unequal cable lengths to the common busbar. If the cabling from each UPS to the busbar varies significantly in length, it can lead to differences in impedance, resulting in uneven load distribution. Ensuring that cable lengths are consistent helps to balance the load sharing across the UPS systems.

Detailed Explanation:

Parallel UPS systems rely on uniform impedance to share loads evenly. Differences in cable lengths cause variations in resistance, leading to one or more UPS units carrying a disproportionate share of the load.

Standardizing cable lengths ensures equal impedance, which promotes balanced load sharing and prevents one UPS from being overburdened, thus maintaining overall system reliability.

EPI Data Center Specialist References:

EPI guidelines recommend checking cable lengths when load imbalances occur in parallel UPS configurations. Ensuring equal lengths is a common method to resolve impedance issues that affect load distribution, which is critical for the stable operation of redundant power systems.

NEW QUESTION # 114

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

Answer: B

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 # 115

Management requests a 15-minute battery bank at full UPS load. UPS specs:

* 30 kVA, PF 0.8

* Battery 384 V (192 cells), end discharge 308 V

* Inverter PF 0.8, 400 V output

What information is missing to perform the calculation?

- A. Load imbalance
- B. Available battery charging current
- **C. UPS efficiency**
- D. Inverter efficiency / output PF

Answer: C

Explanation:

Battery sizing requires determining the real power demand of the UPS. With 30 kVA at 0.8 PF, the real load is 24 kW. To calculate required ampere-hours for 15 minutes of runtime, we need:

Where P = load, t = runtime, V = battery voltage, and $\#$ = UPS efficiency.

Without UPS efficiency, we cannot know actual DC load on the batteries. A UPS with 90% efficiency will require more battery capacity than one with 95%. None of the other listed parameters (PF, imbalance, charging current) are critical for runtime capacity calculation.

References: IEEE Std 1188 (VRLA Batteries), IEC 62040-3 (UPS performance), ANSI/TIA-942-B §6.2.

NEW QUESTION # 116

You need to install a highly sensitive fire detection system. The data center has a high airflow rate. Which system should you recommend?

- A. Dry pipe sprinkler system
- B. Ionization smoke detector
- **C. VIEW (Very Early Warning) smoke detector**
- D. Photoelectric smoke detector

Answer: C

Explanation:

Data centers typically have high airflow environments due to CRAC/CRAH units, containment, and raised floors. Standard smoke detectors (ionization or photoelectric) often fail to detect incipient smoke because the air movement disperses particles.

The correct solution is VESDA/VIEW (Very Early Warning) smoke detection systems, which use aspirating smoke detectors (ASD). These systems continuously sample air through pipes and can detect smoke particles at concentrations as low as 0.001% obscuration/m. This provides early detection well before fire growth, allowing mitigation without system shutdown.

* Dry pipe sprinklers (A) are suppression, not detection.

* Ionization detectors (B) are sensitive to flaming fires but unreliable in high-airflow environments.

* Photoelectric detectors (C) are better for smoldering fires but still inadequate in high airflow compared to ASD systems.

References: NFPA 75 §5.4.3, NFPA 76 (Telecom facilities - aspirating systems), ISO 7240-20 (Aspirating Smoke Detectors).

NEW QUESTION # 117

The humidity in the computer room has changed from about 50% down to 35% Relative Humidity (RH).

What influence does this have on Electrostatic Discharge (ESD)?

- **A. ESD levels will go up**
- B. No influence as long as the temperature is at approximately 20°C/77°F
- C. ESD levels will go down
- D. Relative humidity has no influence on ESD

Answer: A

Explanation:

As relative humidity decreases, Electrostatic Discharge (ESD) risks increase. Lower humidity levels reduce the amount of moisture in the air, which normally helps dissipate static charges. When the humidity drops from 50% to 35%, the likelihood of static electricity accumulating on surfaces rises, leading to a higher potential for ESD incidents that could damage sensitive IT equipment.

Detailed Explanation:

ESD events are more common in dry environments because there is less atmospheric moisture to neutralize electrical charges.

Maintaining relative humidity above 40% helps minimize the risk of ESD, which is why data centers often control humidity levels

tightly to protect equipment from static discharge that could cause hardware failures or data loss.

EPI Data Center Specialist References:

EPI data center best practices stress the importance of maintaining stable humidity levels to prevent ESD, particularly in computer rooms. Recommended humidity ranges are typically above 40% to prevent conditions that would foster static buildup.

NEW QUESTION # 118

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