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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"> • 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"> • 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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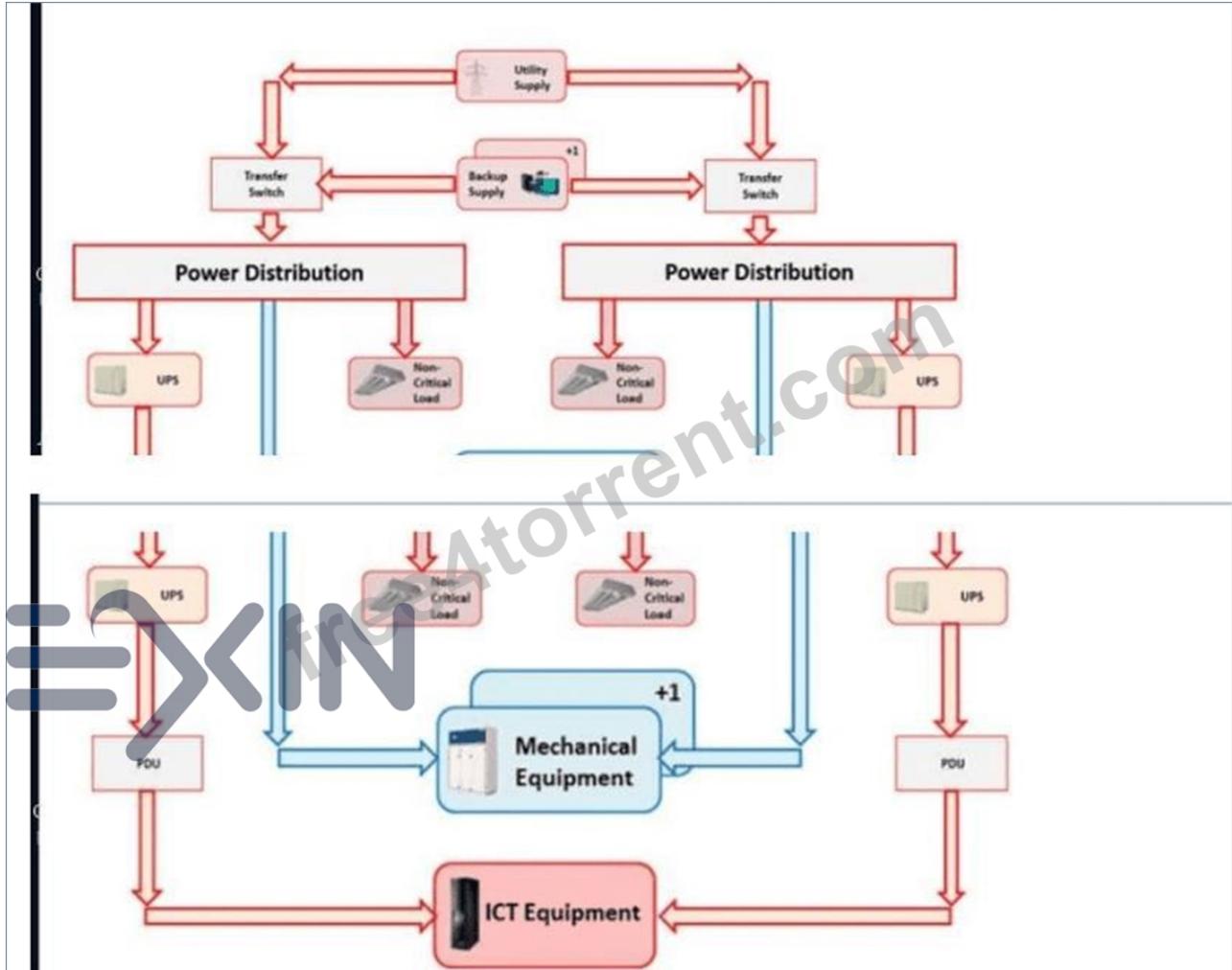
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EXIN EPI Certified Data Centre Specialist Sample Questions (Q30-Q35):

NEW QUESTION # 30

The logical overview of the data center looks as pictured. To what TIA-942 Rating is this design made based on electrical only?



- A. Rating - 4
- B. Rating - 1
- C. Rating - 2
- D. Rating - 3

Answer: A

Explanation:

The electrical design shown in the diagrams represents a TIA-942 Rating-4 configuration. This design includes full redundancy and fault tolerance, as demonstrated by the dual power distribution paths from the utility supply to the critical loads. Each power distribution path is equipped with its own UPS, ensuring that the ICT equipment and mechanical equipment have uninterrupted power in case of any single point of failure.

Detailed Explanation:

A Rating-4 data center requires two independent power paths that are fully redundant and capable of supporting the load independently. In the diagrams:

* There are dual feeds from the utility supply, each going through separate transfer switches and power distribution paths.

* Both paths have backup sources (+1) and serve critical components through separate UPS systems, providing a completely redundant setup.

* The design also includes redundant paths to the mechanical equipment and ICT equipment, which further indicates the fault-tolerant characteristics of a Rating-4 infrastructure.

This setup allows for concurrent maintainability and ensures that no single failure in power distribution or UPS can impact the data center's operation, which is characteristic of the highest Tier/Rated-4 classification.

EPI Data Center Specialist References:

EPI guidelines confirm that TIA-942 Rating-4 requires full redundancy and fault tolerance for electrical infrastructure, ensuring continuous operation even during maintenance or failure events. This design meets all those requirements, thus aligning with Rating-4 standards.

NEW QUESTION # 31

Smoke sensors must be installed in the computer room. What is the minimum density?

- A. 1 per 25 m²
- B. 1 per 10 m²
- C. 1 per 5 m²
- D. 1 per 40 m²

Answer: A

Explanation:

NFPA 75 (Standard for IT Equipment Protection) and NFPA 72 (Fire Alarm Code) recommend installing at least one smoke detector per 250 ft² (#25 m²) in IT rooms. This ensures early detection in high-value environments.

* A and B are far too dense, exceeding NFPA minimums.

* D is too sparse and would not meet early detection requirements.

Therefore, the correct standard density is 1 per 25 m².

References: NFPA 75 §5.4.3, NFPA 72 Table 17.6.3.5.1.

NEW QUESTION # 32

In order to save energy, you are going to install an automated system to switch off lights. What should be taken into consideration when installing such a system?

- A. Security guards should perform regular inspections verifying the system works.
- B. The system should not be based on motion detection as the lights might suddenly switch off while staff is still at work.
- C. At all times, the levels should allow for security cameras to function properly.
- D. It is not advisable to use such a system since it will reduce the lifetime of LED lighting.

Answer: C

Explanation:

When installing an automated lighting system, especially in a security-sensitive area like a data center, it's essential to ensure that lighting levels support security camera functionality at all times. Sufficient lighting is necessary for cameras to capture clear footage, ensuring continuous monitoring and security regardless of occupancy.

Detailed Explanation:

Automated lighting based on occupancy or time settings can reduce energy costs, but it must be configured to maintain adequate illumination for surveillance. Security cameras require minimum lighting levels to operate effectively, so lighting should be configured to avoid compromising security.

EPI Data Center Specialist References:

EPI emphasizes security and safety in data centers, advising that lighting systems should maintain levels conducive to effective surveillance, ensuring operational security even when lights are automatically controlled.

NEW QUESTION # 33

You are installing new copper cabling.

What is the advantage or disadvantage of choosing pre-terminated category 6 or 6A cabling?

- A. Pre-terminated cabling has a higher fire rating.
- B. There is no advantage as most new copper cabling network designs are based on category 3 or 5E for horizontal cabling.
- C. Pre-terminated cabling makes ordering of the copper cables more complex, as you need to know in advance on which side the male or female connector needs to be located.
- D. Pre-terminated cabling is already factory tested and saves installation time.

Answer: D

Explanation:

Choosing pre-terminated category 6 or 6A cabling provides several advantages, primarily related to time savings and reliability. Since pre-terminated cables are factory tested, they ensure consistent quality and performance, reducing the need for additional testing during installation. This makes installation faster and more efficient, which can significantly reduce labor costs and deployment times.

Detailed Explanation:

Pre-terminated cabling systems are manufactured and tested in controlled environments, which ensures they meet industry standards for performance. This factory testing process minimizes the likelihood of faults, reducing the need for troubleshooting and retesting on-site. Moreover, pre-terminated solutions can help to streamline installations because they eliminate the need for on-site terminations, which can be time-consuming and require skilled labor.

This is especially beneficial for data centers, where rapid deployment and minimizing potential points of failure are critical to maintaining uptime. However, it is important to note that pre-terminated cables require accurate planning, as lengths and connector configurations must be predetermined.

EPI Data Center Specialist References:

According to EPI Data Center Specialist guidelines, pre-terminated cabling is advantageous in data center environments due to reduced installation time and enhanced reliability from factory testing. These attributes align with best practices for efficient data center management, where maintaining performance and minimizing downtime are priorities.

NEW QUESTION # 34

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

Answer: D

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 # 35

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As the tech industry continues to evolve and adapt to new technologies, professionals who hold the EXIN EPI Certified Data Centre Specialist (CDCS) certification are better equipped to navigate these changes and stay ahead of the curve, increasing their value to employers and clients. In today's fast-paced and ever-changing EXIN sector, having the EXIN EPI Certified Data Centre Specialist (CDCS) certification has become a necessary requirement for individuals looking to advance their careers and stay competitive in

