

High Pass-Rate CDCS Practice Exams–Newest Reliable Exam Pdf for CDCS: EXIN EPI Certified Data Centre Specialist



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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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 (Q98-Q103):

NEW QUESTION # 98

What is the advantage or disadvantage of using MPO (Multi-fiber Push On)/pre-terminated fiber?

- A. It speeds up installation and provides an easy upgrade to transmission speeds up to 40 Gbit/s - 100 Gbit/s.
- B. There is no advantage, as it creates additional heat load in the data center.
- C. There is no advantage, as it cannot be used with OM4 optical fiber cables.
- D. It is a very flexible system as it can be used for both copper cables and optical fiber cables.

Answer: A

Explanation:

MPO (Multi-fiber Push On) pre-terminated fiber offers the advantage of quick installation and supports high-speed upgrades up to 40 Gbit/s and 100 Gbit/s. This technology simplifies connections by allowing multiple fibers to be connected in a single plug-and-play module, reducing installation time and making future expansions or upgrades to higher speeds easier.

Detailed Explanation:

MPO connectors consolidate multiple fiber connections into a single interface, which simplifies cable management and reduces installation complexity. This setup is particularly beneficial in data centers where high-speed networks are essential, and where rapid deployment is necessary. MPO pre-terminated fiber also supports the use of OM4 fiber, making it compatible with existing high-performance cabling infrastructure.

EPI Data Center Specialist References:

EPI training highlights that pre-terminated fiber solutions, like MPO, can greatly enhance efficiency in data centers. By reducing installation time and providing scalability for higher transmission speeds, they align with best practices for maintaining flexible and future-ready network infrastructure.

NEW QUESTION # 99

You are working with a customer who requires a guarantee that THDi levels coming from the UPS should not exceed more than 3% THDi. Furthermore, he wants to run a power-efficient data center. The UPS has a 6- Pulse SCR/Thyristor based rectifier. The current load on the UPS is approximately 80%. The customer indicates they are not expecting any changes on the ICT infrastructure for the next 3 years.

What should you recommend?

- A. Install a passive harmonic filter on the UPS
- B. Install an active harmonic filter on the UPS
- C. Install an isolation transformer rated at K13 or K20
- D. Nothing, the UPS will be able to take care of the right levels of THDi

Answer: B

Explanation:

Given the customer's requirement to limit Total Harmonic Distortion (THDi) to below 3% and the presence of a 6-pulse SCR/Thyristor-based rectifier, an active harmonic filter is the best solution. A 6-pulse rectifier typically generates higher harmonic distortion, often exceeding 3%, especially under substantial loads like 80%. An active harmonic filter dynamically monitors and compensates for harmonic distortion, effectively reducing THDi and supporting a more power-efficient operation, aligning with the customer's energy efficiency goals.

Detailed Explanation:

Passive harmonic filters can reduce harmonics but are less effective at maintaining low THDi levels under varying loads. Active filters offer real-time correction and can achieve lower THDi levels than passive filters, especially in systems with fluctuating loads or where strict harmonic limits are required. Installing an active harmonic filter will ensure compliance with the specified THDi limits and optimize power quality.

EPI Data Center Specialist References:

EPI guidance on power quality management recommends active harmonic filters for environments where strict THDi levels are necessary. Active filters offer better control over harmonic levels, supporting both compliance and operational efficiency.

NEW QUESTION # 100

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 # 101

What is forced entry resistance based on?

- A. Building materials used and the location of the data center
- B. Rate and installed number of CCTV cameras
- **C. Time, tools, and people**
- D. The number of security guards on duty

Answer: C

Explanation:

Forced-entry ratings use defined attack tools and durations (time-to-breach) executed by attacker profiles.

References: EN 1627-1630 (Resistance Classes—tools and time), UL 972/UL 752 (attack tools/time).

NEW QUESTION # 102

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.

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NEW QUESTION # 103

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