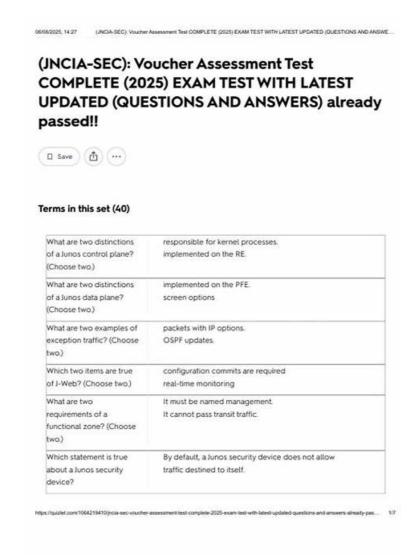
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EXIN CDCS Exam Syllabus Topics:

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 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.

Торіс 3

 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 (Q16-Q21):

NEW QUESTION #16

Do you need to consider bullet (ballistic) protection when designing a data center?

- A. No, there is no reason for implementing bullet protection as you cannot predict the type of weapons that might be used
- B. Yes, but only when the data center is built in an area with a high criminality rate or with a risk of terrorist attacks
- C. Yes, bullet protection is a requirement of ANSI/TIA-942 for Rated-3/4 data centers
- D. No; bullet protection is not a requirement of ANSI/TIA-942

Answer: B

Explanation:

ANSI/TIA-942 requires a risk assessment-based approach to physical security; ballistic protection is not mandated but may be justified by threat analysis.

* A is incomplete (it may still be required by risk).

References: ANSI/TIA-942-B §6.4 Physical Security (threat/risk assessment), ISO 31000 (risk management).

NEW OUESTION #17

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

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

Answer: B

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 #18

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

Answer: D

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 #19

The 'maximum exposed area' of the fire-rated glass is defined by the supplier as 3 sqm/32 sqft. The window area is 4 sqm/43 sqft. What would be the best option?

- A. Split the window in two equal parts using an aluminum frame.
- B. Split the window in two equal parts fitted together with transparent silicon glue.
- C. Do not use fire-rated glass due to the size limit and replace it with normal glass.
- D. Split the window into parts smaller than specified as the maximum exposed area and ensure fire-rated frames are used.

Answer: D

Explanation:

When the window area exceeds the maximum exposed area specified for fire-rated glass, it is necessary to split the window into sections that comply with the fire rating requirements. This means creating smaller sections that are each within the 3 sqm/32 sqft limit and using fire-rated frames to ensure that the entire assembly meets fire safety standards. This approach maintains the fire-rated integrity of the glass, while allowing for larger window areas.

Detailed Explanation:

Fire-rated glass is designed to contain fire and prevent it from spreading. If the window exceeds the maximum exposed area defined by the supplier, the integrity of the fire-rated glass could be compromised. By dividing the window into compliant sections with fire-rated frames, you ensure that each pane performs as intended in the event of a fire. Fire-rated frames help maintain the fire resistance across the entire assembly, making this option the best for safety and compliance.

EPI Data Center Specialist References:

EPI recommends adhering strictly to fire safety standards, especially when using materials like fire-rated glass. The guidelines emphasize that modifications should always respect the manufacturer's specifications to ensure the system remains effective in containing and preventing the spread of fire.

NEW QUESTION #20

You are allowed to use a calculator for this question.

A computer room has a net volume of approximately 2,500 m³ / 88,287 ft³.

The temperature is $20 \, ^{\circ}\text{C} \, / \, 68 \, ^{\circ}\text{F}$.

The required design concentration is 7%.

The S-Factor is 0.1359 (metric) / 1.885 (imperial).

Calculate the amount of gas required for this computer room based on FM200. What is the correct weight?

- A. Approximately 410 kg/900 lbs
- B. Approximately 820 kg / 1,800 lbs
- C. Approximately 1,390 kg/3,000 lbs
- D. Approximately 1,640 kg/3,600 lbs

Answer: B

Explanation:

The amount of FM200 gas required can be calculated using the formula:

 $Weight\ of\ Gas=Net\ Volume\times Design\ Concentration\times S-Factor\ text\ \{Weight\ of\ Gas\} = \ text\ \{Net\ Volume\}\ \ text\ \{Design\ Concentration\}\ \ times\ \ text\ \{S-Factor\}\ \ Weight\ of\ Gas=Net\ Volume\times Design\ Concentration\times S-Factor\ \ Using\ metric\ units:$

Net Volume: 2,500 m³

Design Concentration: 7% (or 0.07)

S-Factor: 0.1359

Calculation:

 $2,500 \text{ m}3 \times 0.07 \times 0.1359 = 821.325 \text{ kg}2,500 \setminus \text{text}\{m\}$

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