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EXIN CDCS Exam Syllabus Topics:

Topic	Details

Topic 1	<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 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"> • 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 (Q91-Q96):

NEW QUESTION # 91

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

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

Answer: D

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 # 92

What is the sensible heat ratio (SHR)?

- A. Ratio of the cold-aisle temperature to the hot-aisle temperature
- B. Ratio of cold-air supply to hot-air return temperature of a cooling system
- C. Ratio of the latent heat to the total of sensible plus latent heat to be removed from a conditioned space
- **D. Ratio of the sensible heat to the total of sensible plus latent heat to be removed from a conditioned space**

Answer: D

Explanation:

SHR = Sensible Load / (Sensible + Latent Load); it describes the portion of the total cooling that is sensible (temperature change) versus latent (moisture removal).

References: ASHRAE Fundamentals Handbook (Psychrometrics/Load Calculations), ASHRAE TC 9.9.

NEW QUESTION # 93

What is the floor loading requirement for a Rated-3 data center according to ANSI/TIA-942?

- A. 15 kPa
- **B. 12 kPa**
- C. 8.4 kPa
- D. 7.2 kPa

Answer: B

Explanation:

ANSI/TIA-942 specifies minimum floor live load capacities based on Rated levels:

* Rated-1/2: ~7.2-8.4 kPa

* Rated-3: 12 kPa

* Rated-4: 15 kPa

These values ensure raised floors can support racks, cabling trays, cooling units, and maintenance loads without structural compromise. For Rated-3, concurrent maintainability requires higher floor robustness to handle additional infrastructure.

Therefore, the correct requirement is 12 kPa.

References: ANSI/TIA-942-B §6.3.5 (Floor Loading), CISCRA Raised Floor Design Guide.

NEW QUESTION # 94

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

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

Answer: D

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 # 95

When installing a raised floor, can we use a spirit level bar to level the floor?

- A. Yes, using a spirit level bar for raised floors higher than 40 cm is preferred.
- **B. No, because using a spirit level bar, a measurement error will be transferred from pedestal to pedestal.**
- C. Yes, but spirit level bars can only be used in the vertical plane.

- D. Yes, spirit level bars can be used as long as their length is longer than 60 cm/2 ft (the size of a typical raised floor tile).

Answer: B

Explanation:

A spirit level bar should not be used for leveling a raised floor, as measurement errors are likely to propagate from one pedestal to the next. Spirit levels can introduce cumulative errors, leading to uneven floors, particularly in large installations where precise leveling is critical.

Detailed Explanation:

Using a laser level or a precision leveling device is recommended to ensure accuracy across all floor tiles. Spirit levels, while adequate for short spans, can transfer small inaccuracies from one pedestal to another, which can cause alignment issues and floor instability over time.

EPI Data Center Specialist References:

EPI data center guidelines discourage the use of spirit levels for raised floors. Instead, they advocate for precision tools like laser levels that ensure consistency and accuracy in large-scale installations, aligning with best practices for raised floor construction.

NEW QUESTION # 96

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