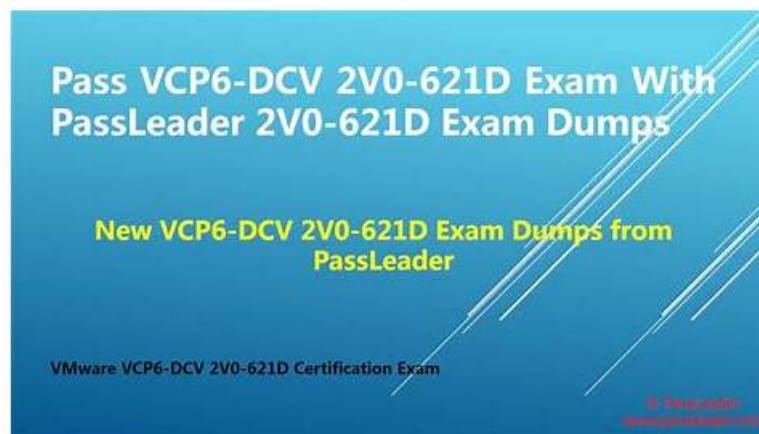


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## EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>

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## EXIN EPI Certified Data Centre Specialist Sample Questions (Q64-Q69):

#### NEW QUESTION # 64

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

- A. Ionization smoke detector
- B. Dry pipe sprinkler system
- 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 # 65

Which standard defines the requirements for network administration?

- A. ANSI/TIA-606
- B. ANSI/TIA-568
- C. ASHRAE
- D. ISO/IEC 30129

**Answer: A**

Explanation:

Network administration in structured cabling is governed by ANSI/TIA-606-B, which defines requirements for cable and asset administration, labeling, documentation, and record-keeping. It specifies how pathways, spaces, and cabling should be identified and labeled to ensure proper lifecycle management.

\* ANSI/TIA-568 covers cabling performance standards, not administration.

\* ISO/IEC 30129 relates to data center facilities and infrastructure but not cable management.

\* ASHRAE focuses on thermal management, not cabling.

Proper administration is critical in data centers because high cable density can lead to operational issues, troubleshooting delays, and risk of downtime if poorly managed. By enforcing labeling schemes, color codes, and database-driven records, ANSI/TIA-606 supports operational excellence and compliance with ANSI/TIA-942.

References: ANSI/TIA-606-B (Administration Standard for Telecommunications Infrastructure), ANSI/TIA-942-B §8.6.

#### NEW QUESTION # 66

Three data centers are benchmarked on facilities energy efficiency.

Data center A has achieved a PUE of 2.45.

Data center B has achieved a PUE of 1.20.

Data center C has achieved a PUE of 1.90.

Which of the data centers is operating at the highest facility efficiency?

- A. Data center A
- B. Data center C
- C. Data center B
- D. PUE does not indicate efficiency

**Answer: A**

Explanation:

A Power Usage Effectiveness (PUE) of 1.20 (achieved by Data Center B) indicates the highest facility efficiency among the three data centers. A lower PUE value signifies better energy efficiency, as it means that a greater proportion of the total energy consumed is used directly for IT equipment rather than for cooling, lighting, or other facility needs.

Detailed Explanation:

PUE is calculated as the ratio of total facility energy to IT equipment energy. A PUE close to 1.0 suggests that almost all the energy is dedicated to computing processes, with minimal overhead. With PUE values of 2.45, 1.20, and 1.90, Data Center B (1.20) operates most efficiently by devoting a higher percentage of its total energy to IT equipment.

EPI Data Center Specialist References:

The EPI curriculum emphasizes PUE as a key metric for data center efficiency, with lower values representing better performance. Achieving a PUE near 1.0 aligns with industry best practices for energy-efficient data center design and operation.

#### NEW QUESTION # 67

A 5kW (power consumption) server keeps crashing with the message 'temperature too high'.

The intake temperature is measured at 25 °C/77 °F and a relative humidity (RH) level of 50%.

The exhaust temperature is 29 °C/84 °F and 45% RH.

The raised floor is providing an adequate amount of CFM/CMH at a reasonable velocity.

The pressure under the raised floor is approximately 25 Pa/0.1 inch H<sub>2</sub>O.

Analyze the situation and indicate what the most likely cause is for this server to crash.

- A. The raised floor pressure is too low and/or the raised floor tile % opening is not adequate
- B. No cause could be determined as the CFM/CMH of the air conditioning equipment is not stated
- **C. Dust inside the server causing issues with convection-based heat transfer**
- D. The exhaust temperature is exceeding the ASHRAE recommended values

**Answer: C**

Explanation:

The server's repeated overheating despite adequate intake and exhaust temperatures suggests that dust buildup inside the server may be impeding heat transfer. Dust accumulation can obstruct airflow within the server, insulate components, and disrupt the convection-based cooling systems that regulate internal temperatures, leading to overheating and potential hardware failures.

Detailed Explanation:

While the intake and exhaust temperatures appear within acceptable ranges, internal dust can reduce airflow and impede cooling efficiency, causing internal components to overheat despite seemingly normal ambient conditions. Regular cleaning and maintenance are critical for preventing dust-related issues, especially in high-powered equipment like a 5kW server.

EPI Data Center Specialist References:

EPI emphasizes regular maintenance to prevent dust buildup in data center equipment. Dust can significantly impact cooling efficiency and lead to overheating, which underlines the importance of routine cleaning for optimal server performance.

#### NEW QUESTION # 68

A data center requires an audit for ANSI/TIA-942 Rated-3 compliance. Will the network architecture be part of this audit?

- A. Yes, but only if network administration does not comply with ANSI/TIA-606
- B. No, only the type of cabling used will be audited
- **C. Yes, amongst other aspects the network architecture should be Rated-3 compliant with ANSI/TIA-942**
- D. No, as concurrent maintainability only applies to electrical and mechanical

**Answer: C**

Explanation:

ANSI/TIA-942 defines ratings across four areas:

\* Architectural

\* Electrical

\* Mechanical

\* Telecommunications (network cabling + architecture)

A data center cannot be considered Rated-3 unless all four areas meet the concurrent maintainability criteria.

For telecom/networking, this means dual redundant backbone cabling, proper pathways, and separate routes to ensure no single point of failure.

\* A and B are incorrect because they limit scope to electrical/mechanical or cabling only.

\* C is incomplete: administration (ANSI/TIA-606) is part of compliance but architecture redundancy is mandatory. References: ANSI/TIA-942-B §5.2 (Rated Levels), Annex E (Telecommunications infrastructure examples).

### NEW QUESTION # 69

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