

# CDCS Exam Lab Questions - Valid CDCS Dumps



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## EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<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>

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>• 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>

## >> CDCS Exam Lab Questions <<

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### EXIN EPI Certified Data Centre Specialist Sample Questions (Q100-Q105):

#### NEW QUESTION # 100

Do all residual current devices (RCDs) use the same operating principle?

- A. Yes, they all measure voltage on the earth conductor
- B. Yes, they all detect current differences on live and neutral wire
- C. No, depending on regulations some use thermal-magnetic operation
- D. No, ELCB measures earth voltage, whereas RCD detects current differences

**Answer: D**

Explanation:

Residual current protection has evolved:

\* ELCB (Earth Leakage Circuit Breaker): Older type; voltage-operated. It trips when voltage develops between earth and exposed metal.

\* RCD/RCCB (Residual Current Device/Circuit Breaker): Current-operated. It detects imbalance between live and neutral conductors (indicating leakage current to earth).

Modern data centers use RCDs/RCCBs exclusively, since ELCBs are obsolete and unreliable if multiple earth connections exist.

Thermal-magnetic breakers (D) provide overcurrent protection, not earth leakage.

Thus, not all residual current devices are based on the same principle.

References: IEC 61008, IEC 61009 (RCCB/RCD definitions), IEC 60364 (Electrical Installations - Protective Measures).

#### NEW QUESTION # 101

What is a potential disadvantage of using water mist as a fire extinguishing system?

- A. It only uses 10% of the water normally used in a water-based fire suppression, which might not be enough to suppress the fire
- B. It will rapidly increase the humidity level in the data center, which can cause a potential risk for the operation of the equipment
- C. It has droplets that are too small (100-120 microns) so it can only be used for small fires
- D. It extracts oxygen from the air creating a potential risk for humans inside the computer room

**Answer: B**

Explanation:

A potential disadvantage of using a water mist fire suppression system is that it can rapidly increase the humidity within the data center, which may pose risks to sensitive electronic equipment. Excessive humidity can lead to condensation, which could damage

electronics and lead to short circuits or corrosion over time.

Detailed Explanation:

Water mist systems use fine droplets to suppress fires by cooling and displacing heat. However, the moisture generated may raise the humidity level to the point where it exceeds safe operational limits for IT equipment.

Therefore, while water mist systems are effective in fire suppression, they may not be ideal in environments where high humidity could damage sensitive equipment.

EPI Data Center Specialist References:

EPI guidelines advise considering the impact of humidity from fire suppression systems, particularly in environments housing electronic equipment. It's essential to weigh the benefits of fire suppression against potential risks to operational equipment when choosing suppression methods.

### NEW QUESTION # 102

A computer room needs to be fitted out with a gas-based fire suppression system. The computer room will be a high-density data center with about 30% of the racks being closed circuit cooling blade-center racks.

Should the supplier of the fire suppression system be informed on the design of the racks?

- A. No, cooling and design of racks have no influence on the fire suppression system design.
- B. Only when the rack height obstructs a potential fire suppression release point.
- **C. Yes, the design of the racks has an influence on the fire suppression system design.**
- D. Only when the racks might block access to the fire panel.

**Answer: C**

Explanation:

The design and configuration of racks, particularly high-density and closed-circuit cooling racks, directly impact the fire suppression system design. Closed-circuit cooling racks, like blade-center racks, can affect airflow and potentially trap heat, influencing how fire suppression agents are distributed within the space. Therefore, it is essential to inform the fire suppression system supplier about the rack design to ensure effective coverage and proper agent distribution.

Detailed Explanation:

High-density racks can change how smoke and heat travel, which in turn affects fire detection and suppression. Closed racks with built-in cooling can isolate airflow, requiring adjustments in fire suppression design to ensure that suppression agents reach all necessary areas, including within enclosed spaces. The supplier may need to account for these factors to ensure proper protection coverage.

EPI Data Center Specialist References:

The EPI Data Center Specialist training underscores that fire suppression systems must be tailored to the specific environmental characteristics of the data center. The design of racks, particularly high-density configurations, should always be considered to ensure that suppression agents can effectively control a fire, even in contained rack spaces.

### NEW QUESTION # 103

A new facility requires electrical distribution of 100A to be installed in the computer room, 1 m (3 ft) above sensitive IT equipment.

What type of system minimizes EMF impact?

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

**Answer: B**

Explanation:

Electromagnetic fields are generated by current-carrying conductors. To minimize stray EMF, phase conductors should be physically close and balanced. A three-phase combined cable (all phase conductors and neutral in one sheath) ensures magnetic fields cancel each other due to phase opposition.

If phases are run separately (answer B), the separation increases loop area and magnetic field leakage. Single-phase cabling (A) is even worse because current does not balance across three phases. Bus bar trunking (C) provides physical support but often separates conductors, which may worsen EMF if not specifically shielded.

Therefore, the correct solution is three-phase combined cable (often XLPE-insulated). This design reduces EMF impact to within ANSI/TIA-942 and IEEE recommendations.

References: IEEE Std 141 (Red Book - Power Distribution), ANSI/TIA-942-B §6.6.4, IEC 60364 (Wiring Systems and EMF).

### NEW QUESTION # 104

What is the risk of high levels of hydrogen sulfide (H<sub>2</sub>S) in the computer room?

- A. H<sub>2</sub>S impacts gas-based fire suppression system operation
- B. H<sub>2</sub>S impacts the static properties of the floor
- C. There is no risk
- D. H<sub>2</sub>S can cause corrosion which impacts reliability of equipment

**Answer: D**

Explanation:

Hydrogen sulfide (H<sub>2</sub>S) is a corrosive gas that readily reacts with metals, especially copper and silver found in circuit boards, connectors, and power supply components. Even at concentrations below human detection thresholds, H<sub>2</sub>S can cause sulfidation corrosion leading to intermittent connections, failure of solder joints, and increased failure rates of electronic equipment. ASHRAE Technical Committee 9.9 has documented multiple failures in data centers due to corrosive gases (notably sulfur-bearing compounds). Therefore, high humidity combined with H<sub>2</sub>S presence accelerates this risk. H<sub>2</sub>S does not affect static flooring properties (B) or fire suppression agent chemistry (D). Option A is clearly incorrect as the risk is well-documented.

References: ASHRAE TC 9.9 "Particulate and Gaseous Contamination Guidelines" (2011), IEC 60721-3 (Environmental Classification).

### NEW QUESTION # 105

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