

# 2025 Pass-Sure CDCS: Valid EXIN EPI Certified Data Centre Specialist Learning Materials



## Introduction

With few exceptions, enterprises today rely on IT for the delivery of business-critical services - often directly to the end consumer. It is therefore vital that the mission-critical data centre is designed, maintained and operated with high-availability and efficiency in mind. However, the fact is most data centres do not meet the full availability, capacity, safety or efficiency requirements that are often demanded.

The Certified Data Centre Specialist is a three-day course designed to bring participants to the level of a suitable sparing partner with suppliers. They will be able to verify offers provided by vendors for correctness, effectiveness and efficiency. CDCS® is a must-have certification for professional data centre managers and personnel. CDCS® is a pre-requisite for individuals wishing to achieve the elite CDCE® (Certified Data Centre Expert) status.

## Roadmap



## Audience

The primary audience for this course is an IT, facilities or data centre operations professional working in and around the data centre and having the responsibility to achieve and improve high-availability and manageability of the data centre.

## Prerequisites

Participants must hold a valid CDCP® certificate in order to be able to register for the CDCS® class.

## Global Accreditation & Recognition



## Course Benefits

After completion of the course the participant will be able to:

- Understand the design life cycle of data centres and the stages involved
- Discuss the data centre requirements in great level of detail with vendors, suppliers and contractors to ensure that these requirements are met
- Validate design plans, quotes and offers proposed by vendors/contractors
- Understand redundancy levels for both the data centre design/setup and maintenance
- Understand the various building considerations such as bullet proofing, mitigation of seismic activity, fire ratings and thermal stability
- Understand how to install a raised floor that meets requirements, avoiding misalignment, level differences and leakage
- Understand how to read a Single Line Electrical Diagram to identify and avoid the most common design issues
- Choose the correct UPS and parallel configuration, learn and avoid classic parallel installation mistakes
- Understand how to calculate battery banks, validate offered configurations to ensure they meet requirements
- Understand what distance to keep to avoid EMF issues for human safety and equipment disturbances
- Understand the fundamental cooling setup, CFM, Delta-T and other important factors
- Understand contamination factors and limitations
- Understand full details of fire suppression options, how to calculate gas content and verify installations
- Understand how to measure data centre energy efficiency and how to improve it

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## EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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>

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## Quiz EXIN - Pass-Sure Valid CDCS Learning Materials

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### EXIN EPI Certified Data Centre Specialist Sample Questions (Q11-Q16):

#### NEW QUESTION # 11

An air-conditioner unit needs to be selected. Two types are available:

Unit-A has a Sensible Heat Ratio (SHR) of 0.7.

Unit-B has a Sensible Heat Ratio (SHR) of 0.9.

From an efficiency point of view, which one should be selected?

- A. Unit A
- B. Not relevant, as Sensible Heat Ratio is only specified for air-conditioner equipment to indicate the ratio between intake temperature and exhaust temperature.
- C. Unit B**
- D. It does not matter, as the Sensible Heat Ratio has nothing to do with efficiency.

**Answer: C**

Explanation:

From an efficiency standpoint, Unit B with a Sensible Heat Ratio (SHR) of 0.9 is preferable. A higher SHR indicates that a greater proportion of the air conditioner's capacity is dedicated to sensible cooling (temperature reduction) rather than latent cooling (moisture removal). In data centers, sensible cooling is more critical since IT equipment primarily generates heat without adding significant moisture.

Detailed Explanation:

An SHR of 0.9 means that 90% of the cooling capacity is used for sensible cooling, which is more efficient for environments like data centers where humidity control is typically less of a concern. Opting for an air conditioner with a higher SHR ensures that most of the cooling energy is focused on temperature reduction, making Unit B more efficient in this scenario.

EPI Data Center Specialist References:

EPI data center best practices recommend choosing cooling units with higher SHR values in data centers, as they better match the cooling needs of IT equipment. High SHR units improve cooling efficiency by concentrating on sensible heat removal, which is vital for maintaining the optimal thermal environment.

#### NEW QUESTION # 12

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

- D. Install three-phase power cabling based on three individual core wires

**Answer: B**

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 # 13**

A computer room is fitted with a hypoxic-based fire suppression system. On what principle does it work?

- A. It lowers the oxygen levels in the room
- B. It uses water as an extinguisher
- C. It removes the fuel from the fire
- D. It removes the heat from the fire

**Answer: A**

Explanation:

Hypoxic air systems continuously reduce the oxygen concentration in the protected area to below the level required for combustion (typically 15-16%), while still remaining safe for human occupancy (>14%). By lowering oxygen concentration, ignition and flame propagation are prevented.

This is different from halocarbon or inert-gas clean agents, which flood the room only upon detection of fire.

Hypoxic systems are preventive, creating a permanent fire-retardant environment.

They do not remove heat (A), fuel (C), or use water (D). Their key mechanism is oxygen displacement.

References: ISO 20338 (Oxygen Reduction Systems), NFPA 770 (Standard on Hybrid Fire Extinguishing Systems).

**NEW QUESTION # 14**

Smoke sensors need to be tested to ensure that they pick up a potential fire in the data center.

What should you recommend?

- A. Inject smoke at the floor level
- B. Test the sensors by injecting smoke or simulated smoke directly into the sensor
- C. Test the sensors according to the vendor specification
- D. Press the self-test button on each sensor in the data center

**Answer: C**

Explanation:

Testing smoke sensors should be conducted according to the vendor specifications to ensure compliance with safety standards and accurate results. Vendors provide specific testing procedures to account for the sensor type, environment, and operational characteristics, ensuring that tests do not damage the equipment or provide false results.

Detailed Explanation:

Smoke sensors can vary by type and sensitivity, so following the vendor's recommended testing procedure ensures the sensors function correctly without risking sensor damage. Injecting smoke or using a self-test might be insufficient or could lead to inaccurate assessments if they do not align with the vendor's testing protocol.

EPI Data Center Specialist References:

EPI recommends adhering to manufacturer specifications for testing critical safety equipment, ensuring that tests reflect real-world conditions without compromising sensor integrity or reliability.

## NEW QUESTION # 15

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

- A. Bullet (ballistics) protection is only required when the data center is located in an area with a high crime rate.
- B. Bullet (ballistics) protection is required by ANSI/TIA-942 for data centers Rated 3/4.
- C. Bullet (ballistics) protection is only required if the facility is a potential target or the building is in the vicinity of a potential target.
- D. Bullet (ballistics) protection is required by ANSI/TIA-942 for all data centers.

**Answer: C**

### Explanation:

Bullet (ballistics) protection is typically considered only for data centers that are potential targets or located near such targets. While ANSI/TIA-942 does not specifically require bulletproofing for all data centers, it is prudent to consider it based on location risk assessments, especially if the facility is in a high-risk area or near critical infrastructure that could attract threats.

### Detailed Explanation:

Protective measures like bulletproofing depend on the threat landscape and the data center's exposure to risks such as crime or terrorism. Assessments for physical security are typically customized based on location-specific risks rather than being universally required by data center standards.

### EPI Data Center Specialist References:

EPI guidelines emphasize customizing physical security measures based on threat assessments, suggesting that bulletproofing is appropriate in specific circumstances where the facility's risk profile justifies additional security measures.

### NEW QUESTION # 16

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