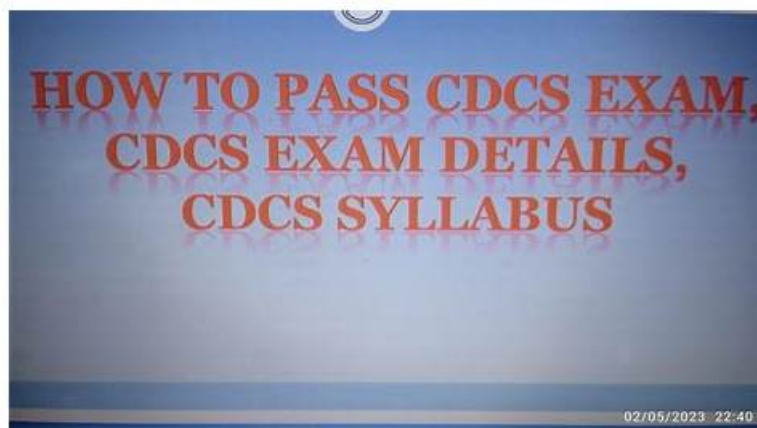


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## EXIN CDCS Exam Syllabus Topics:

| Topic   | Details  |
|---------|--|
| Topic 1 | <ul style="list-style-type: none"><li>• <b>Designing and Implementing a Data Centre:</b> 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>• <b>Data Centre Life Cycle and Standards:</b> 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 3 | <ul style="list-style-type: none"><li>• <b>Data Centre Environmental Considerations and Efficiency:</b> 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> |

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Taking these mock exams is important because it tells you where you stand. People who are confident about their knowledge and expertise can take these CDCS practice tests and check their scores to know where they lack. This is good practice to be a pro and clear your EXIN EPI Certified Data Centre Specialist (CDCS) exam with amazing scores. BraindumpsPrep practice tests simulate the real CDCS exam questions environment.

## EXIN EPI Certified Data Centre Specialist Sample Questions (Q17-Q22):

### NEW QUESTION # 17

Which formula is correct?

- A. Phase-to-Neutral Voltage = Phase-to-Phase voltage \* 1.732
- B. Phase-to-Neutral Voltage = Phase-to-Neutral voltage \* 1.732
- **C. Phase-to-Neutral Voltage = Phase-to-Phase voltage /1.732**
- D. Phase-to-Neutral Voltage = (Phase-to-Phase voltage \* 1.732) / Phase-to-Neutral Voltage

**Answer: C**

Explanation:

The correct formula for calculating Phase-to-Neutral Voltage in a three-phase power system is Phase-to-Neutral Voltage = Phase-to-Phase Voltage / 1.732. This formula applies to balanced three-phase systems, where 1.732 (or  $\sqrt{3}$ ) represents the relationship between line-to-line and line-to-neutral voltages.

Detailed Explanation:

In three-phase systems, Phase-to-Phase Voltage is higher than Phase-to-Neutral Voltage by a factor of  $\sqrt{3}$ . Dividing the phase-to-phase voltage by 1.732 gives the phase-to-neutral voltage, which is critical for understanding power distribution in three-phase electrical systems commonly found in data centers.

EPI Data Center Specialist References:

EPI electrical training highlights the importance of knowing these calculations for designing and maintaining balanced power systems, which are essential for stable and efficient data center operations.

### NEW QUESTION # 18

The noise levels in the data center are approximately 91 dB (A).  
Do employers need to take precautions?

- A. As long as the data is compliant to ISO/IEC 27001 it is acceptable.
- **B. Yes, since it is mandated by regulations.**
- C. There are no regulations regarding noise levels inside a building. Regulations only apply to noise pollution outside of the building.
- D. No, anything less than 100 dB (A) is acceptable.

**Answer: B**

Explanation:

In a data center with noise levels of 91 dB (A), employers are indeed required to take precautions to protect personnel, as this level exceeds commonly accepted safety thresholds for occupational noise exposure.

Regulations, such as those from the Occupational Safety and Health Administration (OSHA) or similar agencies, mandate specific controls and protections for environments with high noise levels.

Detailed Explanation:

Noise levels above 85 dB (A) typically trigger requirements for hearing conservation programs. At 91 dB (A), steps like providing ear protection, conducting regular noise assessments, and possibly implementing engineering controls to reduce noise should be taken. Extended exposure to such levels can lead to hearing loss, so regulatory compliance ensures both immediate and long-term protection for personnel.

EPI Data Center Specialist References:

EPI guidelines for data center safety address noise exposure as part of the environmental safety measures. EPI recommends adhering to local occupational health regulations, as excessive noise can harm personnel and affect operational efficiency due to potential health hazards.

### NEW QUESTION # 19

What mainly affects the cooling capacity of a raised floor tile?

- A. Type of ICT equipment, location of the air conditioner, pressure under the raised floor, allowable temperature in the hot aisle
- B. Relative humidity in the computer room, temperature of the cold air, pressure under the raised floor, construction material of the tile
- **C. Percentage of the surface opening, obstruction of the supporting construction, pressure under the raised floor, damper construction**
- D. Percentage of the surface opening, airflow direction of the ICT equipment, temperature difference between the air intake

and air exhaust of the ICT equipment, construction material of the tile

**Answer: C**

Explanation:

The cooling capacity of a raised floor tile is primarily influenced by the percentage of surface opening, the obstruction caused by the supporting construction, the pressure under the raised floor, and the damper construction. These factors dictate how much airflow can pass through the tile and how effectively cool air is distributed to the equipment in the data center.

Detailed Explanation:

The percentage of surface opening on a floor tile affects how much air can flow through, with larger openings allowing more airflow. Supporting structures beneath the floor can obstruct airflow, reducing cooling efficiency. Pressure under the raised floor impacts the velocity and volume of air that moves through the tile. Additionally, if dampers are installed, they control the airflow rate, which can be adjusted to meet specific cooling needs for the area.

EPI Data Center Specialist References:

EPI guidance on airflow management under raised floors emphasizes these factors as critical for effective cooling, especially in high-density areas. Ensuring unobstructed and adequate airflow helps maintain consistent cooling across equipment.

### NEW QUESTION # 20

You are working with a customer who requires a guarantee that THDi levels coming from the UPS should not exceed more than 3% THDi. Furthermore, he wants to run a power-efficient data center. The UPS has a 6- Pulse SCR/Thyristor based rectifier. The current load on the UPS is approximately 80%. The customer indicates they are not expecting any changes on the ICT infrastructure for the next 3 years.

What should you recommend?

- A. Install an isolation transformer rated at K13 or K20
- B. Install a passive harmonic filter on the UPS
- **C. Install an active harmonic filter on the UPS**
- D. Nothing, the UPS will be able to take care of the right levels of THDi

**Answer: C**

Explanation:

Given the customer's requirement to limit Total Harmonic Distortion (THDi) to below 3% and the presence of a 6-pulse SCR/Thyristor-based rectifier, an active harmonic filter is the best solution. A 6-pulse rectifier typically generates higher harmonic distortion, often exceeding 3%, especially under substantial loads like 80%. An active harmonic filter dynamically monitors and compensates for harmonic distortion, effectively reducing THDi and supporting a more power-efficient operation, aligning with the customer's energy efficiency goals.

Detailed Explanation:

Passive harmonic filters can reduce harmonics but are less effective at maintaining low THDi levels under varying loads. Active filters offer real-time correction and can achieve lower THDi levels than passive filters, especially in systems with fluctuating loads or where strict harmonic limits are required. Installing an active harmonic filter will ensure compliance with the specified THDi limits and optimize power quality.

EPI Data Center Specialist References:

EPI guidance on power quality management recommends active harmonic filters for environments where strict THDi levels are necessary. Active filters offer better control over harmonic levels, supporting both compliance and operational efficiency.

### NEW QUESTION # 21

A customer requires THDi from the UPS not to exceed 3% and wants high efficiency. The UPS has a 6-pulse SCR/thyristor rectifier and is loaded ~80%. Many ICT changes are expected in the next 3 years. What should you recommend?

- A. Install a passive harmonic filter on the UPS
- **B. Install an active harmonic filter on the UPS**
- C. Nothing; the UPS will keep THDi at the right levels
- D. Install an isolation transformer rated K13 or K20

**Answer: B**

Explanation:

A 6-pulse thyristor rectifier typically produces 25-35% THDi at nominal load. To reach #3% THDi, an active harmonic filter (or a

12/18-pulse or IGBT rectifier UPS) is required. Passive filters are load-specific and less effective over a wide operating range-undesirable with frequent changes.

References: IEEE 519-2014 (harmonic current limits), UPS vendor application notes (6-pulse vs IGBT rectifier THDi), ANSI/TIA-942-B Annex (power quality).

## NEW QUESTION # 22

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