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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 (Q80-Q85):

### NEW QUESTION # 80

In which stage of the data center life cycle does testing and commissioning take place?

- A. Retire stage
- **B. Implement stage**
- C. Operate/optimize stage
- D. Design stage

### Answer: B

Explanation:

The data center life cycle is typically divided into four stages:

- \* Design (scope, architecture, planning)
- \* Implement (construction, installation, testing & commissioning)
- \* Operate/Optimize (day-to-day operations, maintenance, continuous improvement)
- \* Retire (decommissioning and migration)

Testing and commissioning occur in the Implement stage, after construction but before handover. This includes Integrated Systems Testing (IST), which validates that all systems (electrical, cooling, fire protection, telecom) perform to design intent and redundancy requirements.

Without commissioning, the data center cannot be certified or considered operational.

References: Uptime Institute Commissioning Guidelines, ANSI/TIA-942-B Annex F (Lifecycle), ISO/IEC 30182.

### NEW QUESTION # 81

The noise levels in the data center are approximately 91 dB (A).

Do employers need to take precautions?

- A. There are no regulations regarding noise levels inside a building. Regulations only apply to noise pollution outside of the building.
- **B. Yes, since it is mandated by regulations.**
- C. As long as the data is compliant to ISO/IEC 27001 it is acceptable.
- 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 # 82

Should aerosol cleaning solutions be used in the computer room?

- A. Yes, only if room smells bad
- B. Yes, if not connected to power
- C. No, unless leak detection installed
- D. No, it will contaminate the room

**Answer: D**

Explanation:

Aerosol sprays release particulates and residues into the environment, which can contaminate sensitive ICT equipment. Such contamination accelerates corrosion, interferes with airflow, and increases particulate levels beyond ASHRAE recommended limits. Proper cleaning should use HEPA-filtered vacuum systems or dry wipes, not aerosols. Even odor control aerosols are disallowed in critical rooms.

Therefore, aerosol cleaning solutions must never be used.

References: ASHRAE TC 9.9 "Contamination Guidelines," NFPA 75 §8.4.

## NEW QUESTION # 83

Management has requested a 15-minute battery bank assuming full load on the UPS. The UPS vendor has provided the following specifications of the UPS:

- \* Rated power: 30 kVA
- \* Rectifier input voltage: 400 V/3 phase
- \* Rectifier input power factor: 0.8
- \* Battery rated voltage: 384 V
- \* Number of cells: 192
- \* End of discharge voltage: 308 V
- \* Inverter output voltage: 400 V/3 phase
- \* Inverter output power factor: 0.8

What information is missing to perform the battery calculation?

- A. Available battery charging current
- B. Inverter efficiency
- C. Load imbalance on the phases
- D. UPS efficiency

**Answer: D**

Explanation:

To determine the required capacity of the battery bank for the 15-minute runtime at full load, one must know the total power requirement that the battery bank must supply. The specifications provided include most of the necessary details, such as rated power, input voltage, battery voltage, and discharge voltage. However, one critical piece of information is missing: the UPS efficiency.

Detailed Explanation:

In a data center UPS system, the battery bank is designed to supply power for a set duration when there is an input power failure. The UPS efficiency affects the actual power the UPS can deliver to the load compared to the power it draws from the batteries. The efficiency factor is necessary to accurately calculate the required capacity of the battery bank since it determines how much input power is needed from the batteries to supply the load at full capacity. The formula typically used to determine battery capacity involves factoring in UPS efficiency, as it allows you to understand the losses within the UPS system.

If UPS efficiency is not considered, there would be an inaccurate estimation of the actual power needed from the batteries. For instance, if a UPS has 90% efficiency, only 90% of the power drawn from the batteries reaches the load. Without knowing this efficiency, it is not possible to calculate the battery bank size accurately, as you cannot accurately estimate the losses within the UPS itself.

EPI Data Center Specialist References:

According to EPI Data Center Specialist training, understanding the UPS efficiency is essential for battery sizing. Without it, the calculations could lead to either undersizing or oversizing the battery bank, which affects both reliability and cost-effectiveness of the UPS system. The EPI Data Center Specialist course emphasizes that battery sizing must account for all losses within the UPS system, with efficiency being a primary factor in these calculations.

## NEW QUESTION # 84

What is the sensible heat ratio (SHR)?

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

**Answer: B**

### 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 # 85

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