

CDCS Dumps Deutsch - CDCS Quizfragen Und Antworten

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1.If a waveform period is determined to be 10 microseconds in duration, what is the frequency of the signal?

- A. 100 kHz
- B. 10 kHz
- C. 1000 Hz
- D. 100 Hz

Answer: A

Explanation:

Frequency is the inverse of period, so to calculate the frequency of a signal with a period of 10 microseconds, you would divide 1 by the period, which is equal to 100 kHz.

2.Data Center Precision Cooling Systems maintain temperature within _____ degree(s) of their design set point.

- A. 1
- B. 2
- C. 3
- D. 5

Answer: A

3.True or False: Human error is a major cause of data center downtime

- A. True
- B. False

Answer: A

Explanation:

Human error is a major cause of data center downtime. Human mistakes are one of the top causes of data center outages, accounting for around one-third of all downtime incidents. Common causes of human error in data centers include misconfiguration, inadequate maintenance, and improper security practices. To reduce the risk of human error, it is important to ensure that data center staff receive proper training, have adequate access control measures in place, and are familiar with best practices for data center operations.

4.A _____ generator system is a combination of an electrical generator and a mechanical engine mounted together to form a single piece of equipment.

- A. passive
- B. standby
- C. active
- D. software

Answer: B

Explanation:

A Standby Generator System is a combination of an electrical generator and a mechanical engine mounted together to form a single piece of equipment. The generator provides power to essential appliances and equipment in the event of a power outage. Standby Generator Systems are usually powered by gasoline, diesel, natural gas, or propane, and they are designed to be able to be activated quickly in the event of an emergency.

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EXIN CDCS Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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.
Thema 2	• 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.
Thema 3	• 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.

EXIN EPI Certified Data Centre Specialist CDCS Prüfungsfragen mit Lösungen (Q64-Q69):

64. Frage

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

Antwort: A

Begründung:

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).

65. Frage

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

Antwort: D

Begründung:

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.

66. Frage

A sprinkler system employs automatic sprinklers attached to a piping system containing water and connected to a water supply so that water discharges immediately when a head opens. What is this called?

- A. Dry pipe system
- B. Pre-action system
- **C. Wet pipe system**
- D. Deluge system

Antwort: C

Begründung:

In a wet pipe system, the piping is always filled with water under pressure. When a sprinkler head is triggered by heat, water is discharged immediately. This is the most common sprinkler system for general buildings.

* Dry pipe: Pipes contain air or nitrogen; water enters only after valve activation.

* Deluge: Pipes are empty, and all heads open simultaneously, releasing water everywhere.

* Pre-action: Pipes are dry until detection and valve activation; reduces accidental discharge risk, recommended for IT rooms.

Since the definition describes immediate discharge from water-filled pipes, this is a wet pipe system.

References: NFPA 13 §3.3 (System Definitions), NFPA 75 §5.4.3 (IT room considerations).

67. Frage

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

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

Antwort: C

Begründung:

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.

68. Frage

The electrical diagram of the data center shows the following UPS configuration and has a load of 80 kW.
What is the set-up in this data center?

- A. $2(N+1)$
- B. $2+N+1$
- C. $N+N(+1)$
- D. $(N+1)-(N+1)$

Antwort: A

Begründung:

A $2(N+1)$ configuration implies two independent UPS systems, each with $N+1$ redundancy. This configuration provides high availability by ensuring that each UPS system can independently support the load with an additional unit for redundancy. Given the 80 kW load, this setup implies that two separate $N+1$ systems are running, providing reliability and fault tolerance for the data center's power needs.

Detailed Explanation:

The $N+1$ notation denotes that each system has one additional unit beyond what is needed to carry the load, providing redundancy. With $2(N+1)$, there are two such setups, ensuring that if one fails, the other can still support the load without interruption, fulfilling high availability requirements.

EPI Data Center Specialist References:

EPI teaches that multiple redundant systems, such as $2(N+1)$, enhance data center reliability by ensuring that power is maintained even if a failure occurs in one system. This meets the stringent demands for uptime in critical environments.

69. Frage

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