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CDCS®
CERTIFIED DATA CENTRE SPECIALIST

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 sparring 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">• 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.
Topic 2	<ul style="list-style-type: none">• 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.
Topic 3	<ul style="list-style-type: none">• 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 Sample Questions (Q56-Q61):

NEW QUESTION # 56

Smoke sensors need to be tested to ensure that they pick up a potential fire in the data center.
What should you recommend?

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

Answer: B

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 # 57

What is the advantage or disadvantage of using MPO (Multi-fiber Push On)/pre-terminated fiber?

- A. It is a very flexible system as it can be used for both copper cables and optical fiber cables.
- B. There is no advantage, as it cannot be used with OM4 optical fiber cables.
- **C. It speeds up installation and provides an easy upgrade to transmission speeds up to 40 Gbit/s -100 Gbit/s.**
- D. There is no advantage, as it creates additional heat load in the data center.

Answer: C

Explanation:

MPO (Multi-fiber Push On) pre-terminated fiber offers the advantage of quick installation and supports high-speed upgrades up to 40 Gbit/s and 100 Gbit/s. This technology simplifies connections by allowing multiple fibers to be connected in a single plug-and-play module, reducing installation time and making future expansions or upgrades to higher speeds easier.

Detailed Explanation:

MPO connectors consolidate multiple fiber connections into a single interface, which simplifies cable management and reduces installation complexity. This setup is particularly beneficial in data centers where high-speed networks are essential, and where rapid deployment is necessary. MPO pre-terminated fiber also supports the use of OM4 fiber, making it compatible with existing high-performance cabling infrastructure.

EPI Data Center Specialist References:

EPI training highlights that pre-terminated fiber solutions, like MPO, can greatly enhance efficiency in data centers. By reducing installation time and providing scalability for higher transmission speeds, they align with best practices for maintaining flexible and future-ready network infrastructure.

NEW QUESTION # 58

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

Do employers need to take precautions?

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

Answer: A

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 # 59

A computer room with raised floor and hot/cold aisles is designed. What is the minimum required distance between the air-conditioner outlet and the first rack?

- A. 60 cm (2 ft)
- **B. 120 cm (4 ft)**
- C. 180 cm (6 ft)
- D. None

Answer: B

Explanation:

To ensure uniform air distribution, there must be a buffer zone between CRAC/CRAH discharge and the first row of racks. Industry best practice (ASHRAE & TIA-942) specifies at least 1.2 m (4 ft).

* Less than 1.2 m risks air velocity hotspots and turbulence, disrupting cold aisle containment.

* More than 1.8 m wastes valuable floor space without added benefit.

Thus, 120 cm is the recommended minimum.

References: ANSI/TIA-942-B §6.5.3 (CRAC placement), ASHRAE TC 9.9 Thermal Guidelines.

NEW QUESTION # 60

What is needed to determine the Relative Humidity (RH)?

- A. Cold surface with dew collection counter
- **B. Dry bulb temperature, wet bulb temperature, and psychrometric chart**
- C. Dry bulb temperature, airflow, and conversion table
- D. Wet bulb temperature, local atmospheric pressure, and calculator

Answer: B

Explanation:

Relative Humidity (RH) is defined as the ratio of the actual water vapor content in the air to the maximum possible water vapor content at a given temperature. To calculate RH:

* Dry bulb temperature (DBT): the ambient air temperature.

* Wet bulb temperature (WBT): the temperature measured by a thermometer covered with a wet wick, influenced by evaporative cooling.

Using DBT and WBT, the humidity ratio and dew point can be determined with a psychrometric chart or Mollier diagram. From there, RH is calculated as:

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$$RH = \frac{\text{Actual Vapor Pressure}}{\text{Saturation Vapor Pressure}} \times 100\%$$

Options A and B are incomplete, while option C is an experimental method, not standard practice. The recognized method is option D.

References: ASHRAE Fundamentals Handbook - Psychrometrics, ISO 7726 (Measurement of Physical Quantities in Thermal Environments).

NEW QUESTION # 61

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