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(CDCP) CERTIFIED DATA CENTRE PROFESSIONAL

พัฒนาทักษะความรู้ด้าน Data Center
พร้อมสอน สำหรับบุคลากรที่ทำงาน
เกี่ยวกับห้อง Data Center โดยตรง



Certified Data Centre Professional

หลักสูตร 2 วัน พร้อมสอบใบรับรอง CDCP ที่จะช่วยส่งเสริมและพัฒนาทักษะความรู้ด้าน 'Data Center' ของคุณ
อย่างสมบูรณ์แบบ เหมาะอย่างยิ่งสำหรับบุคลากร IT ที่ปฏิบัติงาน หรือมีประสบการณ์ที่เกี่ยวข้องกับ
การดูแล Data Center ขององค์กรอย่างน้อย 1-2 ปี อาทิ Data Center Managers Operations Managers,
Data Centre Engineers Network & System Engineers หรือ Data Center Consultants

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- 4) วิธีการแก้ปัญหาได้อย่างทันท่วงทีเมื่อเกิดเหตุการณ์ขึ้น



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EXIN CDCP Exam Syllabus Topics:

Topic	Details
Topic 1	Physical Security and Safety: Sub-topics are about physical security considerations and physical safety considerations.
Topic 2	Electro Magnetic Fields: The topic deals with effects of EMF on human health and equipment (H)EMP, standards, and EMF shielding solutions.

Topic 3	• Data Centre Location, Building and Construction: It focuses on appropriate sites and components of an effective data centre and supporting facilities setup.
Topic 4	• Water Supply: This topic is all about water supply techniques and application areas.
Topic 5	• Raised Floor • Suspended Ceiling: The topic discusses applicable standards, signal reference grid, and disability act and regulations.
Topic 6	• Cooling Infrastructure: The topic focuses on liquid immersion cooling, supplemental cooling options, sensible and latent heat definitions, and temperature and humidity recommendations.
Topic 7	• Designing a Scalable Network Infrastructure: It covers ANSI • TIA-942 cabling hierarchy, network redundancy, structured Cabling System, and planning considerations.
Topic 8	• Fire Safety • Protection: This topic gives an understanding of standards for fire suppression, detection systems, total flooding fire suppression techniques, and handheld extinguishers. Additionally, it covers Signage and safety.

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We know that the standard for most workers become higher and higher; so we also set higher goal on our CDCP guide questions. Different from other practice materials in the market our training materials put customers' interests in front of other points, committing us to the advanced learning materials all along. Until now, we have simplified the most complicated CDCP Guide questions and designed a straightforward operation system, with the natural and seamless user interfaces of CDCP exam question grown to be more fluent, we assure that our practice materials provide you a total ease of use.

EXIN Certified Data Centre Professional (CDCP) Sample Questions (Q84-Q89):

NEW QUESTION # 84

An optical fiber cable comes with the specifications 50/125 μm .
What do the numbers represent?

- A. The first number represents the distance for a 10 Gb/s connection; the second number represents the distance for a 1 Gb/s connection.
- B. The first number represents the diameter of the core; the second number represents the actual diameter cable including the buffer and jacket.
- C. The first number represents the diameter of the core; the second number represents the diameter of the cladding in microns.
- D. The first number represents the required distance to single-phase power cabling; the second number represents the required distance to three-phase cabling.

Answer: C

Explanation:

Optical fiber cables are composed of a core, a cladding, and a coating. The core is the central part of the fiber that carries the light signal. The cladding is the layer surrounding the core that reflects the light back into the core and prevents signal loss. The coating is the protective layer that covers the cladding and provides mechanical strength and environmental protection. The specifications of an optical fiber cable indicate the dimensions of the core and the cladding in microns (m), which are one millionth of a meter. For example, a

50/125 m cable has a core diameter of 50 m and a cladding diameter of 125 m. The coating diameter is usually 250 m, but it is not part of the specifications.

References: Multimode Optical Fiber Selection & Specification - Corning, Optical Fiber OM3 (50/125 μm Multimode Fiber), 50/125 Graded-Index OM2 Optical Fiber - OFS

NEW QUESTION # 85

is the degree to which a system or component is operational and accessibility when required for use.

- A. Reliability
- **B. Availability**
- C. Scalability
- D. Agility

Answer: B

Explanation:

Availability is the degree to which a system, product or component is operational and accessible when required for use. It is one of the attributes of reliability, which is the ability of a system or component to perform its required functions under stated conditions for a specified period of time. Availability can be calculated as the ratio of the expected value of the uptime (the time when the system is functional) to the total time (uptime plus downtime) of a system or component. Availability can also be influenced by factors such as maintainability, fault tolerance, redundancy, diagnostics, and logistics.

References: EPI Data Centre Professional (CDCP®) Preparation Guide, page 8; Availability - Wikipedia; Reliability - ISO 25000.

NEW QUESTION # 86

Which one of the following is a device that uses circulating chilled water to remove heat?

- **A. Computer Room Air Handling Unit (CRAH)**
- B. Computer Room Air System Unit (CRAS)
- C. Computer Room Air Suspension Unit (CRAS)
- D. Computer Room Air Suppression Unit (CRAS)

Answer: A

Explanation:

A computer room air handling unit (CRAH) is a device that uses circulating chilled water to remove heat from the data center environment. A CRAH consists of a fan, a coil, and a filter. The fan draws the warm air from the data center and passes it through the coil, where the heat is transferred to the chilled water. The chilled water is supplied by a chiller or a cooling tower, and the cooled air is returned to the data center. A CRAH is different from a computer room air conditioning unit (CRAC), which uses a refrigerant instead of chilled water to cool the air.

References:

*EPI Data Centre Professional (CDCP®) Preparation Guide, page 36

*Chilled Water Systems: Applications and Common Uses

*The Principles of Basic Refrigeration: What is a chiller?

NEW QUESTION # 87

What is the recommended location for the Isolation Transformer in relation to the ICT-Equipment location?

- **A. The isolation transformer should be as close as possible to the ICT equipment but taking into account potential EMF.**
- B. The isolation transformer should be as far away as possible to the ICT equipment to avoid potential EMF.
- C. The isolation transformer should be installed within the rack in which the ICT equipment has been installed.
- D. The isolation transformer has to be installed within the power entry point of the building due to electrical code (regulation) requirements.

Answer: A

Explanation:

According to the EPI Data Centre Training Framework, an isolation transformer is a device that transfers electrical power from one circuit to another without changing the voltage or frequency, but providing galvanic isolation¹. Galvanic isolation means that there is no direct electrical connection between the input and output circuits, which can prevent ground loops, reduce noise, and improve safety². An isolation transformer can also provide voltage stepdown or stepup, create a local ground-bonded neutral, reduce harmonic currents, and provide taps for abnormal mains voltage³.

The location of the isolation transformer in relation to the ICT equipment depends on the purpose and design of the transformer. In general, the isolation transformer should be as close as possible to the ICT equipment, but taking into account potential EMF⁴. EMF

is a form of electromagnetic interference (EMI) that can affect the performance and reliability of the ICT equipment⁵. The closer the isolation transformer is to the ICT equipment, the shorter the cable length and the lower the voltage drop and power loss⁴. However, the isolation transformer should also be far enough from the ICT equipment to avoid EMF, which can be reduced by using proper shielding, grounding, and spacing⁵.

The isolation transformer should not be installed as far away as possible to the ICT equipment, as option B suggests, because this would increase the cable length and the voltage drop and power loss⁴. The isolation transformer does not have to be installed within the power entry point of the building, as option C suggests, because this is not a requirement of the electrical code or regulation, and it may not be optimal for the data centre power system. The isolation transformer should not be installed within the rack in which the ICT equipment has been installed, as option D suggests, because this would increase the heat load and the noise level in the rack, and it may not fit in the rack space.

References: 1: EPI Data Centre Training Framework, Module 5: Power, Section 5.4.3: Isolation Transformers, Page 5-38 2:

Guidelines for using isolation transformers in data center UPS systems - EEP1, Page 1 3: The Role of Isolation Transformers in Data Center UPS Systems², Page 2 4: Data Center Transformer | Power Distribution - FGC Construction³, Page 1 5: EPI Data Centre Training Framework, Module 5: Power, Section

5.4.1: Electromagnetic Interference, Page 5-34 : Data centre transformers manufacturers - TMC Transformers⁴, Page 1 : The Role of Isolation Transformers in Data Center UPS Systems², Page 25

NEW QUESTION # 88

Starting from which Rating does the requirement of Concurrently Maintainability becomes relevant?

- A. Rated-4
- B. Rated-2
- C. Rated-1
- **D. Rated-3**

Answer: D

Explanation:

The requirement of Concurrently Maintainability becomes relevant starting from Rated-3, according to the Uptime Institute Tier Classification System¹. Concurrently Maintainability means that any component or system in the data centre can be maintained or replaced without affecting the availability of the IT equipment.

This requires having redundant capacity components and multiple independent distribution paths serving the IT equipment. Rated-3 data centres are designed to achieve Concurrently Maintainability and have a minimum uptime of 99.982%. Rated-4 data centres also have Concurrently Maintainability, but they also have Fault Tolerance, which means that they can withstand any single unplanned event without affecting the availability of the IT equipment. Rated-4 data centres have a minimum uptime of 99.995%. Rated-1 and Rated-2 data centres do not have Concurrently Maintainability, as they have only one distribution path serving the IT equipment and no redundant capacity components. Rated-1 data centres have a minimum uptime of 99.671% and Rated-2 data centres have a minimum uptime of 99.741%.

References:

1: Uptime Institute Tier Classification System², page 1, section 1 2: Data Center Tiers Classification Explained: (Tier 1, 2, 3, 4)³, page 1, section 1 3: Data Center Tier Standards⁴, page 1, section 1

NEW QUESTION # 89

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