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EXIN-CDCP Exam

Certified Data Centre Professional

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EXIN CDCP Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Cooling Infrastructure: The topic focuses on liquid immersion cooling, supplemental cooling options, sensible and latent heat definitions, and temperature and humidity recommendations.
Topic 2	<ul style="list-style-type: none">• Water Supply: This topic is all about water supply techniques and application areas.
Topic 3	<ul style="list-style-type: none">• Raised Floor• Suspended Ceiling: The topic discusses applicable standards, signal reference grid, and disability act and regulations.
Topic 4	<ul style="list-style-type: none">• Equipment Racks: It discusses power rail• strip options, security considerations, and rack standards, properties and selection criteria.
Topic 5	<ul style="list-style-type: none">• Light: This topic covers light fixture types and placement, emergency lighting, and emergency Power Supply (EPS).
Topic 6	<ul style="list-style-type: none">• Data Centre Location, Building and Construction: It focuses on appropriate sites and components of an effective data centre and supporting facilities setup.
Topic 7	<ul style="list-style-type: none">• Designing a Scalable Network Infrastructure: It covers ANSI• TIA-942 cabling hierarchy, network redundancy, structured Cabling System, and planning considerations.
Topic 8	<ul style="list-style-type: none">• 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.
Topic 9	<ul style="list-style-type: none">• Physical Security and Safety: Sub-topics are about physical security considerations and physical safety considerations.
Topic 10	<ul style="list-style-type: none">• Power Infrastructure: It focuses ATS and STS systems, redundancy levels and techniques, static and dynamic UPS systems, battery types, thermo-graphics, and renewable energy factor (REF).
Topic 11	<ul style="list-style-type: none">• Auxiliary Systems: The topic covers water leak detection systems, data centre monitoring requirements, EMS, BMS and DCIM.

EXIN Certified Data Centre Professional (CDCP) Sample Questions (Q41-Q46):

NEW QUESTION # 41

New server equipment is arriving at your data centre, where should it be tested?

- A. In the Holding area
- B. In the Computer! Server room
- **C. In the Staging room**
- D. In the Media storage area

Answer: C

Explanation:

New equipment should be unpacked, tested, and configured in a dedicated staging room before being moved to the live data hall to prevent contamination and disruptions.

References:

CDCP Exam Preparation Guide, Staging/Receiving Area

NEW QUESTION # 42

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

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

Answer: B

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 # 43

Do I need to check the local standards if I already comply to international standards?

- A. Compliance to only international standards is good enough as most local standards are derived from international standards.
- B. Data centres only need to comply to international standards since they are connected to a worldwide international network infrastructure.
- **C. You need to check the local standards to ensure compliance to these standards.**
- D. Local standards do not to be checked as some countries have too many local standards, which will slow down the data centre construction.

Answer: C

Explanation:

Data centre design and infrastructure standards can vary from country to country, depending on the local regulations, codes, and practices. Therefore, it is important to check the local standards before designing, building, or operating a data centre in a specific location. Compliance to only international standards may not be sufficient or adequate to meet the local requirements, which could result in legal, financial, or operational risks. For example, some countries may have stricter fire safety, environmental, or energy efficiency standards than the international ones. Some countries may also have different electrical standards, such as voltage, frequency, or plug types. By checking the local standards, you can ensure that your data centre is compliant, safe, and efficient in the local context.

References:

1: Data Center Design: Which Standards to Follow?², page 1, section 1 3: The Most Important Data Center Design and Infrastructure Codes and Standards⁴, page 1, section 1 5: Explaining the new family of ISO Data Centre Standards⁶, page 1, section 1 7: Standards for data centre certification. Is a changing coming?⁸, page 1, section 1

NEW QUESTION # 44

What factor should be considered when placing fluorescent lighting in the data centre?

- A. Fluorescent lights should not be connected to the back-up generator.
- B. Fluorescent lights should not be connected to the mains power supply.
- C. Fluorescent lights should only be installed in equipment supporting areas and not in the Computer /Server room.
- **D. Fluorescent lights should not be connected to the same UPS that supports the ICT equipment.**

Answer: D

Explanation:

The UPS (uninterruptible power supply) is a device that provides backup power to the ICT equipment in case of a power outage or a power quality issue. The UPS should be dedicated to the ICT equipment only, and not to other loads, such as lighting, cooling, or security systems. This is because connecting fluorescent lights to the same UPS as the ICT equipment can cause several problems, such as:

- *Reducing the battery runtime of the UPS, which may not be enough to support the ICT equipment until the backup generator kicks in or the utility power is restored.
- *Increasing the harmonic distortion of the UPS output, which can affect the performance and reliability of the ICT equipment and the UPS itself.
- *Creating electromagnetic interference (EMI) or radio frequency interference (RFI), which can disrupt the communication and data transmission of the ICT equipment.
- *Triggering false alarms or tripping the circuit breakers of the UPS, which can cause downtime or data loss.

Therefore, fluorescent lights should not be connected to the same UPS that supports the ICT equipment.

Instead, they should be connected to a separate power source, such as the utility power, the backup generator, or a different UPS.

References:

1: CDCP Preparation Guide, page 17, section 2.3.1 2: Data Center Lighting Design Considerations3, page 1, section 3 4: Data Center Lighting Solutions5, page 1, section 1 6: Going beyond energy savings in data centers with LEDs7, page 1, section 2

NEW QUESTION # 45

Which one of the following is a factor that can affect Availability and Reliability?

- A. Radio Active Waves
- B. Employee Salaries
- C. Attenuation
- **D. Inadequate Cooling**

Answer: D

Explanation:

Availability and reliability are two important aspects of data centre performance that measure how often the system is operational and how dependable it is. According to the EPI Data Centre Framework, availability is the percentage of time that a system or component is in an operable state, while reliability is the probability that a system or component will perform its required function under given conditions for a specified period of time. Both availability and reliability can be affected by various factors, such as design, maintenance, human error, power supply, security, etc. One of the factors that can have a significant impact on both availability and reliability is cooling. Cooling is essential for maintaining the optimal temperature and humidity levels for the IT equipment and preventing overheating, which can cause failures, downtime, and reduced lifespan.

Inadequate cooling can result from insufficient capacity, poor airflow management, faulty components, or environmental conditions. Inadequate cooling can reduce the availability and reliability of the data centre by increasing the risk of thermal stress, hot spots, performance degradation, and equipment damage. Therefore, cooling is a critical factor that can affect availability and reliability in a data centre.

References:

- *EPI Data Centre Framework1
- *EPI Data Centre Training Framework2
- *EPI Data Centre Competence Framework3
- *Data Center Availability, Reliability Hinge On Numerous Factors4
- *A Look at Data Center Reliability and Availability5

NEW QUESTION # 46

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