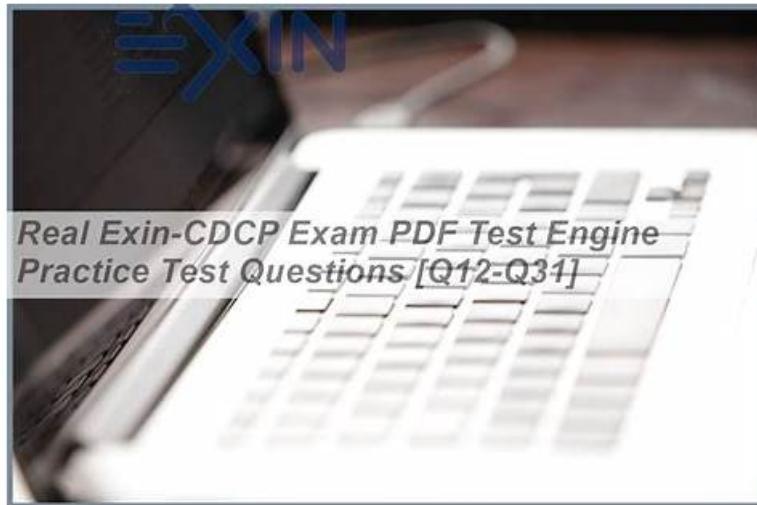


# EXIN CDCP Reliable Test Tips - New CDCP Test Experience



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## EXIN CDCP Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Physical Security and Safety: Sub-topics are about physical security considerations and physical safety considerations.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Designing a Scalable Network Infrastructure: It covers ANSI</li><li>TIA-942 cabling hierarchy, network redundancy, structured Cabling System, and planning considerations.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Light: This topic covers light fixture types and placement, emergency lighting, and emergency Power Supply (EPS).</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Equipment Racks: It discusses power rail</li><li>strip options, security considerations, and rack standards, properties and selection criteria.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>Electro Magnetic Fields: The topic deals with effects of EMF on human health and equipment (H)EMP, standards, and EMF shielding solutions.</li></ul>
Topic 6	<ul style="list-style-type: none"><li>Auxiliary Systems: The topic covers water leak detection systems, data centre monitoring requirements, EMS, BMS and DCIM.</li></ul>
Topic 7	<ul style="list-style-type: none"><li>Fire Safety</li><li>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.</li></ul>
Topic 8	<ul style="list-style-type: none"><li>Data Centre Location, Building and Construction: It focuses on appropriate sites and components of an effective data centre and supporting facilities setup.</li></ul>

Topic 9	<ul style="list-style-type: none"> <li>• Cooling Infrastructure: The topic focuses on liquid immersion cooling, supplemental cooling options, sensible and latent heat definitions, and temperature and humidity recommendations.</li> </ul>
Topic 10	<ul style="list-style-type: none"> <li>• Raised Floor</li> <li>• Suspended Ceiling: The topic discusses applicable standards, signal reference grid, and disability act and regulations.</li> </ul>

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## EXIN Certified Data Centre Professional (CDCP) Sample Questions (Q74-Q79):

### NEW QUESTION # 74

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

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

### Answer: B

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 isolation<sup>1</sup>. 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 safety<sup>2</sup>. 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 voltage<sup>3</sup>.

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 EMF<sup>4</sup>. EMF is a form of electromagnetic interference (EMI) that can affect the performance and reliability of the ICT equipment<sup>5</sup>. The closer the isolation transformer is to the ICT equipment, the shorter the cable length and the lower the voltage drop and power loss<sup>4</sup>.

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 spacing<sup>5</sup>.

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 loss<sup>4</sup>. 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 Systems<sup>2</sup>, Page 2 4: Data Center Transformer | Power Distribution - FGC Construction<sup>3</sup>, 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 Transformers<sup>4</sup>, Page 1 : The Role of Isolation Transformers in Data Center UPS Systems<sup>2</sup>, Page 25

### NEW QUESTION # 75

What is the primary reason to install a monitoring system in the data centre?

- A. To implement automated change management
- B. To notice abnormalities early so that actions can be taken to avoid disasters
- C. To be able to collect data for capacity planning
- D. To create a proper asset database

**Answer: B**

Explanation:

The primary reason to install a monitoring system in the data centre is to notice abnormalities early so that actions can be taken to avoid disasters, according to the CDCP Preparation Guide1 and various web sources234. A monitoring system is a system that collects and analyzes data about the power, cooling, environmental, and security conditions in the data centre, and alerts the operators or managers about any issues or threats that may affect the performance, availability, or reliability of the data centre. A monitoring system can help to prevent or minimize the impact of disasters, such as power outages, fire, water damage, overheating, equipment failure, or cyberattacks, by providing timely and accurate information that enables fast and corrective action. A monitoring system can also help to improve the energy efficiency, capacity planning, and asset management of the data centre, by providing useful insights and trends that support informed decision making.

References:

1: CDCP Preparation Guide, page 21, section 2.3.5 2: Improving Data Center Management and Monitoring5, page 1, section 1 3: Guide to Data Center Monitoring6, page 1, section 1 4: Why Data Center Monitoring is Essential7, page 1, section 1

### NEW QUESTION # 76

A UPS has an internal battery tester, do you still need to separately test the batteries at block level?

- A. No, as mentioned the battery tester is already built-in the UPS.
- B. Yes, the UPS will only test the batteries at string level which only gives an indication on the overall status of the battery string. Measurements at block level will provide more detailed information on the status and remaining lifetime of the batteries itself.
- C. Testing batteries using the built-in battery tester or resting the batteries at block level does not increase the battery lifetime, therefore it is not recommended.
- D. No, the UPS will automatically generate and alarm when the battery voltage is too low to operate.

**Answer: B**

Explanation:

Block-level testing identifies weak or failing individual batteries that may not show up in string-level tests, enhancing overall system reliability.

References:

CDCP Exam Preparation Guide, Power/UPS Maintenance

### NEW QUESTION # 77

By what are magnetic fields of the type 'H' or 'B' created?

- A. Magnetic fields are created when an electric current flows; the greater the current, the stronger the magnetic field.
- B. Magnetic fields are created when there is a high level of common mode noise (CMN); the greater the common mode noise (CMN), the stronger the magnetic field.
- C. Magnetic fields are created by voltage; the greater the voltage, the stronger the magnetic field.
- D. Magnetic fields are created by the magnetic flux of the earth which varies per month.

**Answer: A**

Explanation:

According to the CDCP Preparation Guide1, magnetic fields of the type 'H' or 'B' are created when an electric current flows through a conductor, such as a wire or a coil. The magnetic field strength 'H' is proportional to the current 'I' and the number of turns 'N' of the coil, and inversely proportional to the length

'l' of the coil. The magnetic flux density 'B' is proportional to the magnetic field strength 'H' and the permeability " of the medium in

which the magnetic field exists. The greater the current, the stronger the magnetic field and the magnetic flux density. The relationship between 'H', 'B', 'T', 'N', 'I', and " can be expressed by the following equations:

$$H = NI/1$$

$$B=H$$

## References:

1: CDCP Preparation Guide, page 23, section 2.4.2.1 2: Difference between B and H in magnetic fields?3, page 1, section 1 4: Magnetic field | Definition & Facts5, page 1, section 1

## NEW QUESTION # 78

What is the most cost-effective way to avoid EMF issues within the Computer room?

- A. Install TUVapp'oved shielding material
- B. Reducing the temperature in computer room to 18° C / 64= Fahrenheit
- C. Create a distance between the EMF source and the ICT equipment / copper network cabling
- D. Reducing the voltage in the computer room

Answer: C

### Explanation:

Physical separation is the most cost-effective method to minimize electromagnetic interference. Specialized shielding is more expensive and usually unnecessary if proper separation is maintained.

## References:

CDCP Exam Preparation Guide, EMF Section

## NEW QUESTION # 79

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