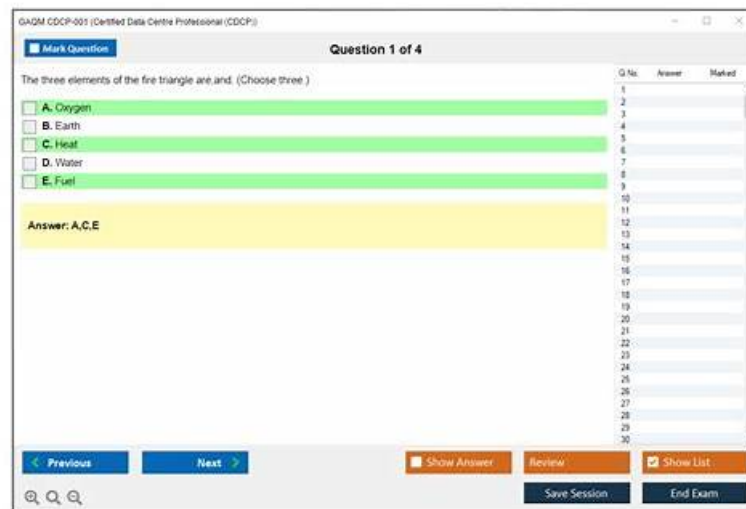


# CDCP Study Reference, CDCP Exam Simulator Free



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## EXIN CDCP Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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>
Topic 3	<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 4	<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 5	<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 6	<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 7	<ul style="list-style-type: none"><li>• Water Supply: This topic is all about water supply techniques and application areas.</li></ul>
Topic 8	<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 9	<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>

- 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).

## &gt;&gt; CDCP Study Reference &lt;&lt;

## Free PDF Efficient CDCP - Certified Data Centre Professional (CDCP) Study Reference

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### EXIN Certified Data Centre Professional (CDCP) Sample Questions (Q66-Q71):

#### NEW QUESTION # 66

Which source is used in fiber cable to transmit data?

- A. Signals
- B. Electric
- C. Light
- D. Pulse

**Answer: C**

Explanation:

Fiber-optic cables use light as the source to transmit data. Light pulses are modulated to carry information through an optical fiber. The light is confined in the core of the fiber by total internal reflection at the core-cladding interface. The light travels along the fiber with minimal loss or interference, making it suitable for long-distance and high-bandwidth applications.

References: EPI Data Centre Training Framework, Principle of Data transmission through fiber optic cables, Fiber-optic communication

#### NEW QUESTION # 67

Which type of Humidifier is composed of water-filled canister containing electrodes?

- A. Steam Canister Humidifier
- B. Ultrasonic Humidifier
- C. Infrared Humidifiers
- D. Water Canister Humidifier

**Answer: A**

Explanation:

A steam canister humidifier is a type of humidifier that uses electricity to heat water in a canister containing electrodes. The water conductivity and the water level determine the amount of current and steam production.

The steam canister humidifier is also known as an electrode boiler humidifier or an electrode steam humidifier<sup>123</sup>.

References: 1: EPI Data Centre Professional (CDCP®) Reference Materials, page 192: Electrode and resistive type humidifiers compared | steamovap technologies inc<sup>3</sup>: Know-How | Electrode Steam Humidifier - Condair Group.

#### NEW QUESTION # 68

Which one of the following represents the three elements (oxygen, heat and fuel) to interact in order for the fire to exist?

- A. The Fire Triangle
- B. The Fire Class

- C. The Fire Hexagon
- D. The Fire Technology

**Answer: A**

Explanation:

The fire triangle is a simple model that illustrates the three elements a fire needs to ignite: heat, fuel, and an oxidizing agent (usually oxygen). A fire naturally occurs when the elements are present and combined in the right mixture. A fire can be prevented or extinguished by removing any one of the elements in the fire triangle.

References: EPI Data Centre Professional (CDCP®) Preparation Guide, page 9; Fire triangle - Wikipedia; The Fire Triangle Explained - Fire Action

## NEW QUESTION # 69

Which type of copper wire is used for grounding the racks to the SRG?

- A. Copper cable with plastic insulation (isolation).
- **B. Braided copper wire or flat copper strip.**
- C. Thick copper cable to create better grounding.
- D. Thin copper cable to keep the cost low for grounding.

**Answer: B**

Explanation:

The type of copper wire that is used for grounding the racks to the SRG (signal reference grid) in a data centre is braided copper wire or flat copper strip, according to the CDCP Preparation Guide<sup>1</sup> and various web sources<sup>2,3,4</sup>. Braided copper wire or flat copper strip are preferred over thin or thick copper cable for grounding purposes, because they have lower impedance and higher surface area, which allow better dissipation of electrical noise and interference. Moreover, braided copper wire or flat copper strip are more flexible and durable than copper cable, which make them easier to install and maintain. Braided copper wire or flat copper strip should be connected to the SRG using exothermic welding or other code-compliant methods, and should follow the relevant standards and codes, such as ANSI/TIA/EIA-607 and NFPA 70.

References:

1: CDCP Preparation Guide, page 23, section 2.4.2 2: Signal Reference Grid | Enterprise Data Center Design and Methodology<sup>5</sup>, page 1, section 1 3: Grounding System Ground Rod Stacking Installation - Rain Bird<sup>6</sup>, page 1, section 1 4: SmartRack Copper Bus Grounding Bar - Eaton Website<sup>7</sup>, page 1, section 1

## NEW QUESTION # 70

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

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

**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 Guide<sup>1</sup> and various web sources<sup>2,3,4</sup>. 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 Monitoring<sup>5</sup>, page 1, section 1 3: Guide to Data Center Monitoring<sup>6</sup>, page 1, section 1 4: Why Data Center Monitoring is Essential<sup>7</sup>, page 1, section 1

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