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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	Cooling Infrastructure: The topic focuses on liquid immersion cooling, supplemental cooling options, sensible and latent heat definitions, and temperature and humidity recommendations.
Topic 3	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 4	- Designing a Scalable Network Infrastructure: It covers ANSI - TIA-942 cabling hierarchy, network redundancy, structured Cabling System, and planning considerations.
Topic 5	Water Supply: This topic is all about water supply techniques and application areas.

Topic 6	• Raised Floor • Suspended Ceiling: The topic discusses applicable standards, signal reference grid, and disability act and regulations.
Topic 7	• Electro Magnetic Fields: The topic deals with effects of EMF on human health and equipment (H)EMP, standards, and EMF shielding solutions.
Topic 8	• Light: This topic covers light fixture types and placement, emergency lighting, and emergency Power Supply (EPS).
Topic 9	• Auxiliary Systems: The topic covers water leak detection systems, data centre monitoring requirements, EMS, BMS and DCIM.
Topic 10	• 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.

EXIN Certified Data Centre Professional (CDCP) Sample Questions (Q36-Q41):

NEW QUESTION # 36

What are the four main components of a refrigeration circuit?

- A. Evaporation, membrane filter, monitor sensor, pressure valve
- B. Condenser, expansion valve, buffer tank, de-icing unit
- C. Thermostat, monitoring interface, indoor unit, outdoor unit
- D. Evaporator, compressor, condenser, expansion valve

Answer: D

Explanation:

The four main components of a refrigeration circuit are the evaporator, the compressor, the condenser, and the expansion valve, according to the CDCP Preparation Guide¹ and various web sources^{2,3,4}. A refrigeration circuit is a system that transfers heat from a low-temperature region to a high-temperature region, using a working fluid called refrigerant. The refrigeration circuit operates in a closed loop, where the refrigerant changes its state from liquid to vapor and back to liquid, while absorbing and releasing heat. The four main components of the refrigeration circuit perform the following functions:

*The evaporator is a heat exchanger that absorbs heat from the low-temperature region, such as the data centre room, and transfers it to the refrigerant. The refrigerant enters the evaporator as a low-pressure, low-temperature liquid, and leaves the evaporator as a low-pressure, low-temperature vapor.

*The compressor is a mechanical device that increases the pressure and temperature of the refrigerant vapor.

The refrigerant enters the compressor as a low-pressure, low-temperature vapor, and leaves the compressor as a high-pressure, high-temperature vapor.

*The condenser is another heat exchanger that releases heat from the refrigerant to the high-temperature region, such as the outside air or water. The refrigerant enters the condenser as a high-pressure, high-temperature vapor, and leaves the condenser as a high-pressure, low-temperature liquid.

*The expansion valve is a device that reduces the pressure and temperature of the refrigerant liquid. The refrigerant enters the expansion valve as a high-pressure, low-temperature liquid, and leaves the expansion valve as a low-pressure, low-temperature liquid. The expansion valve also controls the flow of the refrigerant into the evaporator, depending on the cooling load.

References:

1: CDCP Preparation Guide, page 19, section 2.3.3 2: The Refrigeration Cycle⁵, page 1, section 1 3:

Fundamentals of Cooling in Data Center⁶, page 1, section 1 4: The Refrigeration System, Its Four Main Components, And Their Functions⁷, page 1, section 1

NEW QUESTION # 37

What should be considered when implementing hot- or cold-aisle containment in an existing computer room?

- A. It creates potential issues with the existing fire suppression system(s).
- B. Equipment will get too hot at the rear (back) of the rack potentially resulting in more ICT hardware failures.
- C. It will be more difficult to install power and network cabling in the contained area.
- D. The delta-T of the equipment will increase too much causing reliability issues.

Answer: A

Explanation:

Hot- or cold-aisle containment is a strategy to improve the cooling efficiency and reduce the energy consumption of data centers by isolating the hot exhaust air from the cold supply air. However, implementing this strategy in an existing computer room may create potential issues with the existing fire suppression system(s), such as:

*The containment barriers may interfere with the distribution and activation of the fire suppression agents, such as water, gas, or aerosol, and reduce their effectiveness in extinguishing a fire.

*The containment barriers may create pockets of high temperature and pressure that could damage the equipment or the containment structure itself in the event of a fire.

*The containment barriers may obstruct the access and visibility of the fire detection and alarm devices, such as smoke detectors, heat sensors, or manual call points, and delay the response time of the fire suppression system(s).

*The containment barriers may violate the local fire codes and regulations that specify the minimum clearance and ventilation requirements for the data center.

Therefore, when implementing hot- or cold-aisle containment in an existing computer room, it is important to consider the impact on the existing fire suppression system(s) and take appropriate measures to ensure the safety and compliance of the data center, such as:

*Consulting with the fire authorities and the fire suppression system vendor to assess the compatibility and suitability of the containment solution with the existing fire suppression system(s).

*Modifying or upgrading the existing fire suppression system(s) to accommodate the containment solution, such as relocating or adding fire suppression devices, adjusting the discharge rate and pressure, or installing a secondary fire suppression system within the contained area.

*Installing fire-rated containment barriers that can withstand high temperatures and resist the spread of fire and smoke, and that have self-closing or automatic release mechanisms in case of a fire.

*Installing fire detection and alarm devices within the contained area and ensuring their proper integration and communication with the existing fire suppression system(s).

*Conducting regular testing and maintenance of the fire suppression system(s) and the containment solution to ensure their functionality and reliability.

References: EPI Data Centre Framework, Module 4: Fire Protection, page 10-11. EPI Data Centre Professional (CDCP)

Reference Materials, page 66-67. 1, 2, 3.

NEW QUESTION # 38

What is the main advantage of busbar trunking compared to stand electrical cabling?

- A. Busbar trunking is less expensive.
- B. Busbar trunking can be located both overhead and under the raised floor.
- C. Busbar trunking has a fixed power rating.
- D. Busbar trunking allows for flexibility.

Answer: D

Explanation:

Busbar trunking systems are a method of power distribution using rigid copper or aluminium conductors to distribute the power around a building. Busbar trunking systems have many advantages over cables, such as lower space requirements, higher short-circuit strength, lower fire load, and easier installation. One of the main advantages of busbar trunking is that it allows for flexibility in terms of power transmission and distribution. Busbar trunking systems can be easily relocated, modified, or expanded to accommodate changes in the building layout or load demand. Busbar trunking systems can also be fitted with various components, such as tap-off units, elbows, tees, and end feed units, to provide power to different locations and consumers.

Busbar trunking systems can also be installed both overhead and under the raised floor, depending on the design and preference of the building.

References: Why I prefer busbar trunking systems more than cables | EEP, Why should you choose Busbar over Cable? - E+I Eng, Busbar VS Cables for Riser Applications - An Electrical Engineer.

NEW QUESTION # 39

Which one of the following is an Objective of Data Center Fire Protection?

- **A. Suppression**
- B. Depression
- C. Representation
- D. Information

Answer: A

Explanation:

The objective of data center fire protection is to suppress or extinguish a fire before it can cause significant damage to the equipment, personnel, or business continuity. Fire suppression systems are designed to reduce the heat, oxygen, or fuel elements of the fire triangle, and to limit the spread of fire and smoke. Fire suppression systems can be classified into two types: water-based and gas-based. Water-based systems include sprinklers, mist, and water spray systems, which use water as the extinguishing agent. Gas-based systems include inert gas, halocarbon, and clean agent systems, which use gases or chemicals as the extinguishing agent. The choice of fire suppression system depends on several factors, such as the fire risk, the type of fuel, the environmental impact, the reliability, the cost, and the compatibility with the data center equipment and operations.

References:

*EPI Data Centre Professional (CDCP) Preparation Guide, page 31

*A Comprehensive Approach To Data Center Fire Safety

NEW QUESTION # 40

A fire extinguisher in the data centre is found which is classed as ABC.

Is this suitable?

- **A. No**
- B. Only for fires not related to electrical power
- C. Depends on the brand
- D. Yes

Answer: A

Explanation:

A fire extinguisher in the data centre that is classed as ABC is not suitable, because it contains dry chemical powder that can damage the ICT equipment and the data. ABC fire extinguishers are designed to fight Class A, B, and C fires, which are fueled by combustible materials, flammable liquids or gases, and electrical equipment, respectively. However, the dry chemical powder can leave a corrosive residue on the ICT equipment, which can cause short circuits, data loss, or malfunction. Moreover, the dry chemical powder can be difficult to clean, especially from the small spaces and crevices of the ICT equipment. Therefore, ABC fire extinguishers are not recommended for data centres, and should be replaced with more suitable fire extinguishers, such as clean agent fire extinguishers, which use gas or liquid that does not leave any residue or harm the ICT equipment.

References:

1: CDCP Preparation Guide, page 24, section 2.4.3 2: Data Center Fire Suppression: Overview & Protection Guide3, page 1, section 1 4: Fire Extinguisher Classes and Suitability5, page 1, section 1 6: SAFETY DATA SHEET Commercial ABC Dry Chemical (Fire Extinguishing Agent ...7, page 1,

NEW QUESTION # 41

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