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## EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Data Centre Life Cycle and Standards: This section of the exam measures the skills of data center professionals and covers the various stages involved in the life cycle of a data center, from planning and design to implementation and decommissioning.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Designing and Implementing a Data Centre:</b> In this module, the exam assesses the knowledge of Exin data center professionals tasked with the design and implementation of data centers. Candidates will learn the key principles of creating an efficient data center layout, including considerations for scalability, redundancy, and security.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Data Centre Environmental Considerations and Efficiency:</b> This section evaluates the proficiency of data center professionals in addressing environmental factors and promoting efficiency within data center operations. The target audience, including data center managers and engineers, will be tested on their ability to identify and implement measures that enhance energy efficiency, cooling management, and sustainable practices.</li> </ul>

>> CDCS Latest Exam Questions <<

## Realistic CDCS Latest Exam Questions for Real Exam

Our CDCS study questions in every year are summarized based on the test purpose, every answer is a template, there are subjective and objective CDCS exams of two parts, we have in the corresponding modules for different topic of deliberate practice. To this end, our CDCS training materials in the qualification exam summarize some problem-solving skills, and induce some generic templates. The user can scout for answer and scout for score based on the answer templates we provide, so the universal template can save a lot of precious time for the user to study and pass the CDCS Exam.

### EXIN EPI Certified Data Centre Specialist Sample Questions (Q104-Q109):

#### NEW QUESTION # 104

You are changing the design of the fire suppression system for your computer room from a halocarbon fire suppression system into an inert-based fire suppression system. Could you use the same formula to calculate the gas content for the gas?

- A. Yes, as long as you use the same units of measure, i.e., kg/m<sup>3</sup> or lbs/ft<sup>3</sup>.
- B. Yes, as long as you change the 'S' factor of the formula to reflect the gas type used.
- C. Yes, as long as you take the difference between the net and gross volume into account.
- **D. No, there is a significant difference in the formula for the different types of fire suppression gases.**

**Answer: D**

Explanation:

The formula used to calculate the gas content differs significantly between halocarbon and inert-based fire suppression systems. Halocarbon systems function by absorbing heat, while inert systems work by reducing oxygen levels. Due to these differences in fire suppression mechanisms, distinct formulas are applied, factoring in the specific properties of each gas type and the required concentration levels.

Detailed Explanation:

Halocarbon systems like FM200 require a formula that accounts for the concentration needed for cooling, while inert gases like nitrogen or argon need a formula that calculates the volume based on oxygen displacement. As the design concentration and characteristics of these gases differ, it's essential to use the correct formula specific to the gas type.

EPI Data Center Specialist References:

EPI recommends consulting the specific design requirements and formulas provided by each gas manufacturer when switching fire suppression systems to ensure the correct amount of gas is deployed for effective fire suppression.

#### NEW QUESTION # 105

What is the minimum requirement for power feeds to a Rated-4 data center (ANSI/TIA-942)?

- A. Two feeds from two different substations, one power company not acceptable
- **B. Two feeds from two different substations, one power company acceptable**
- C. Two feeds from one substation
- D. One feed split into two distribution boards

**Answer: B**

Explanation:

A Rated-4 facility requires dual active utility feeds, each from an independent substation, but they may come from the same utility provider if substations are geographically separate and independent.

\* Option A is too strict; ANSI/TIA-942 does not mandate two different companies.

\* Options C and D do not provide true independence and would fail Rated-4 requirements.

Thus, the minimum is two substations, possibly same provider.

References: ANSI/TIA-942-B §6.2 (Utility Service Requirements).

### NEW QUESTION # 106

What is a potential disadvantage of using water mist as a fire extinguishing system?

- A. It extracts oxygen from the air creating a potential risk for humans inside the computer room
- B. It only uses 10% of the water normally used in a water-based fire suppression, which might not be enough to suppress the fire
- C. It will rapidly increase the humidity level in the data center, which can cause a potential risk for the operation of the equipment
- D. It has droplets that are too small (100-120 microns) so it can only be used for small fires

**Answer: C**

Explanation:

A potential disadvantage of using a water mist fire suppression system is that it can rapidly increase the humidity within the data center, which may pose risks to sensitive electronic equipment. Excessive humidity can lead to condensation, which could damage electronics and lead to short circuits or corrosion over time.

Detailed Explanation:

Water mist systems use fine droplets to suppress fires by cooling and displacing heat. However, the moisture generated may raise the humidity level to the point where it exceeds safe operational limits for IT equipment.

Therefore, while water mist systems are effective in fire suppression, they may not be ideal in environments where high humidity could damage sensitive equipment.

EPI Data Center Specialist References:

EPI guidelines advise considering the impact of humidity from fire suppression systems, particularly in environments housing electronic equipment. It's essential to weigh the benefits of fire suppression against potential risks to operational equipment when choosing suppression methods.

### NEW QUESTION # 107

The pipes of a VESDA smoke detection system are installed at the air intake of the air conditioner inside the computer room.

Is this a good practice from an early smoke detection point of view?

- A. No, it will give a longer reaction time for the smoke detection system and there might also be bypass airflow.
- B. It depends on the type of gas-based fire suppression which will be installed.
- C. No, the piping should be installed at the air exhaust of the air conditioner, as there can also be a fire inside the air conditioner itself.
- D. Yes, as this reduces the amount of piping to be installed in the data center, as all air will go through the air conditioner.

**Answer: A**

Explanation:

For optimal early smoke detection in a data center, it is crucial that the Very Early Smoke Detection Apparatus (VESDA) system be installed at locations where smoke will be detected as soon as it appears. Positioning the VESDA pipes at the air intake of the air conditioner inside the computer room is not ideal. This placement could result in a delayed detection response and the potential for bypass airflow to occur, which would impede the system's ability to detect smoke effectively.

Detailed Explanation:

When VESDA pipes are installed at the air intake, the detection system relies on the smoke to be drawn into the air conditioning unit before detection can occur. This setup increases the reaction time as the smoke has to travel through the intake and get processed by the air conditioner. Furthermore, bypass airflow—a phenomenon where not all the air containing smoke particles passes through the VESDA pipes—could also delay or even prevent the system from detecting smoke early.

Ideally, VESDA pipes should be positioned where smoke is likely to accumulate first, such as near the ceiling or in the return airflow path to detect smoke at the earliest possible stage. This ensures that the detection system can quickly trigger alarms, providing more time to address potential fire hazards.

#### EPI Data Center Specialist References:

EPI Data Center Specialist training highlights that smoke detection should prioritize early response capabilities to maximize safety. The preferred installation for VESDA pipes is generally at points where smoke would naturally accumulate, rather than relying on air conditioning intakes where airflow can vary and delay detection. In their course materials, EPI emphasizes minimizing reaction time and reducing the impact of airflow dynamics on smoke detection efficiency.

#### NEW QUESTION # 108

An MCB needs to be installed in the PDU of an air-conditioner unit.  
Which breaking curve should you select?

- A. A-Curve
- **B. C-Curve**
- C. D-Curve
- D. B-Curve

#### Answer: B

#### Explanation:

For an MCB (Miniature Circuit Breaker) in the PDU of an air-conditioning unit, a C-Curve is recommended. C-Curve breakers are suitable for circuits with moderate inrush currents, such as those experienced in air conditioning units. They provide protection against overloads while accommodating the inrush without nuisance tripping.

#### Detailed Explanation:

C-Curve breakers trip when currents exceed 5 to 10 times the rated current, making them ideal for devices like air conditioners that experience moderate inrush currents upon startup. This characteristic provides a balance between protection and resilience against startup surges, preventing unnecessary trips while safeguarding the circuit.

#### EPI Data Center Specialist References:

EPI guidance for data center electrical systems specifies that C-Curve breakers are appropriate for equipment with inrush characteristics similar to air conditioning units, as they help prevent operational interruptions caused by typical surges during equipment start-up.

#### NEW QUESTION # 109

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