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## EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Data Centre Environmental Considerations and Efficiency: 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>

Topic 2	<ul style="list-style-type: none"> <li>Designing and Implementing a Data Centre: 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>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>

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## EXIN EPI Certified Data Centre Specialist Sample Questions (Q29-Q34):

### NEW QUESTION # 29

What is needed to determine the Relative Humidity (RH)?

- A. Wet bulb temperature, local atmospheric pressure, and calculator
- B. Dry bulb temperature, airflow, and conversion table
- C. Cold surface with dew collection counter
- D. Dry bulb temperature, wet bulb temperature, and psychrometric chart**

### Answer: D

Explanation:

Relative Humidity (RH) is defined as the ratio of the actual water vapor content in the air to the maximum possible water vapor content at a given temperature. To calculate RH:

\* Dry bulb temperature (DBT): the ambient air temperature.

\* Wet bulb temperature (WBT): the temperature measured by a thermometer covered with a wet wick, influenced by evaporative cooling.

Using DBT and WBT, the humidity ratio and dew point can be determined with a psychrometric chart or Mollier diagram. From there, RH is calculated as:

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$$RH = \frac{\text{Actual Vapor Pressure}}{\text{Saturation Vapor Pressure}} \times 100\%$$

Options A and B are incomplete, while option C is an experimental method, not standard practice. The recognized method is option D.

References: ASHRAE Fundamentals Handbook - Psychrometrics, ISO 7726 (Measurement of Physical Quantities in Thermal Environments).

### NEW QUESTION # 30

A computer room needs to be fitted out with a gas-based fire suppression system. The computer room will be a high-density data center with about 30% of the racks being closed circuit cooling blade-center racks.

Should the supplier of the fire suppression system be informed on the design of the racks?

- A. Yes, the design of the racks has an influence on the fire suppression system design.**
- B. No, cooling and design of racks have no influence on the fire suppression system design.
- C. Only when the racks might block access to the fire panel.
- D. Only when the rack height obstructs a potential fire suppression release point.

**Answer: A**

Explanation:

The design and configuration of racks, particularly high-density and closed-circuit cooling racks, directly impact the fire suppression system design. Closed-circuit cooling racks, like blade-center racks, can affect airflow and potentially trap heat, influencing how fire suppression agents are distributed within the space.

Therefore, it is essential to inform the fire suppression system supplier about the rack design to ensure effective coverage and proper agent distribution.

Detailed Explanation:

High-density racks can change how smoke and heat travel, which in turn affects fire detection and suppression. Closed racks with built-in cooling can isolate airflow, requiring adjustments in fire suppression design to ensure that suppression agents reach all necessary areas, including within enclosed spaces. The supplier may need to account for these factors to ensure proper protection coverage.

EPI Data Center Specialist References:

The EPI Data Center Specialist training underscores that fire suppression systems must be tailored to the specific environmental characteristics of the data center. The design of racks, particularly high-density configurations, should always be considered to ensure that suppression agents can effectively control a fire, even in contained rack spaces.

**NEW QUESTION # 31**

Maximum exposed area of fire-rated glass is 2 m<sup>2</sup>, but the window is 5 m<sup>2</sup>. What is the best option?

- A. Split into two equal parts with silicone
- B. Replace with normal glass
- C. Split into smaller parts within 2 m<sup>2</sup> using fire-rated frames
- D. Split into two equal parts with aluminum frame

**Answer: C**

Explanation:

Fire-rated glass must be installed within manufacturer's tested maximum exposed area. Oversized panes risk failure under fire conditions. If the window exceeds 2 m<sup>2</sup>, the correct approach is to subdivide it into smaller sections, each  $\leq 2$  m<sup>2</sup>, using approved fire-rated frames.

Options B and C (silicone or aluminum splits) are not certified fire-rated framing methods. Option A is unsafe because normal glass provides no fire protection.

Therefore, option D ensures compliance and safety.

References: EN 1363-1 (Fire Resistance Tests), NFPA 80 (Fire Doors & Windows).

**NEW QUESTION # 32**

Racks with 1.0 m depth and cold aisle containment with 3 perforated tiles are used. What aisle pitch is recommended?

- A. 7 tiles pitch rule
- B. 8 tiles pitch rule
- C. 10 tiles pitch rule
- D. 5 tiles pitch rule

**Answer: A**

Explanation:

The aisle pitch is the total width of a rack row plus cold aisle plus rack row. For 1.0 m racks on each side with cold aisle containment, ASHRAE and TIA-942 recommend the 7-tile rule (each tile  $\sim 0.6$  m). This ensures enough width for equipment clearance, airflow distribution, and human access.

\* 5-tile pitch is too narrow, restricting containment effectiveness.

\* 8-10 tiles may be used in some hyperscale layouts but are not standard for 1 m racks.

Thus, the correct design recommendation is the 7 tiles pitch rule.

References: ANSI/TIA-942-B §6.3.6 (Aisle Spacing), ASHRAE TC 9.9 "Airflow Management Best Practices."

**NEW QUESTION # 33**

FM-200 is phasing out as a halocarbon gas and management has decided to replace this with the more environmentally friendly Novec-1230 gas. Should you use exactly the same formula and parameters to calculate the gas content for the Novec-1230 gas?

- A. Yes, if you change the S-factor of the formula to reflect the gas type used
- B. Yes, if you take the difference between the net and gross volume into account
- C. Yes, as long as you use the same units of measure ( $\text{kg/m}^3$  or  $\text{lbs}/\text{ft}^3$ )
- D. Yes, as long as the temperature in the computer room has not changed

**Answer: A**

### Explanation:

Halocarbon agents such as FM-200 (HFC-227ea) and Novec-1230 (FK-5-1-12) are both defined under NFPA 2001 and ISO 14520 as clean agents, but their required design concentrations and physical properties differ.

When calculating agent quantity, the minimum extinguishing concentration (MEC) and safety factor (S) must be taken into account. The S-factor is specific to each agent and reflects differences in molecular weight, density, and flame suppression chemistry.

For Novec-1230, the required design concentration is generally lower than for FM-200 (around 4.5-6% vs. 7-8% for FM-200).

9%), but the calculation formula is the same except for substituting the correct S-factor. Therefore, you cannot reuse the exact formula parameters from FM-200; you must change the S-factor and apply Novec-1230's physical constants.

This ensures compliance with NFPA 2001 Annex C, which provides correction formulas for room volume, temperature, and specific agent type. Using the wrong S-factor could result in underfilling or overfilling, compromising fire safety or increasing cost unnecessarily.

References: NFPA 2001 §5.4 (Agent Quantity), ISO 14520-5 (FK-5-1-12 properties), EXIN DCS Study Guide: Fire Suppression.

## NEW QUESTION # 34

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