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EXIN EPI Certified Data Centre Specialist CDCS Prüfungsfragen mit Lösungen (Q105-Q110):

105. Frage

The temperature in the computer room is being increased from 18°C/64°F to 27°C/81°F.

What is the impact, if any, on the amount of gas required to suppress a fire assuming the gas is a Halocarbon?

- A. The amount of gas required will not change
- **B. The amount of gas required will be lower**
- C. The change to the amount of gas cannot be determined without knowing the change in humidity as well
- D. The amount of gas required will be higher

Antwort: B

Begründung:

With Halocarbon fire suppression systems, as the temperature increases, the amount of gas required for effective suppression decreases. This is because Halocarbon agents are stored as a liquid and discharge as a gas, expanding more at higher temperatures. As a result, less agent is needed at higher room temperatures to achieve the desired concentration for fire suppression.

Detailed Explanation:

Halocarbons rely on specific volumetric concentrations to suppress fires. Higher temperatures cause the agent to expand more rapidly, effectively filling the protected area with less agent needed to reach the required concentration. This is in contrast to some other gases, where temperature changes might not have the same effect on discharge quantities.

EPI Data Center Specialist References:

EPI data center training on fire suppression indicates that understanding the physical properties of agents like Halocarbons is key for correct system sizing. As the temperature rises, the gas expands more readily, thus requiring adjustments in the amount needed for effective coverage.

106. Frage

Which formula is correct?

- **A. Phase-to-Neutral Voltage = Phase-to-Phase voltage / 1.732**
- B. Phase-to-Neutral Voltage = Phase-to-Neutral voltage * 1.732
- C. Phase-to-Neutral Voltage = (Phase-to-Phase voltage * 1.732) / Phase-to-Neutral Voltage
- D. Phase-to-Neutral Voltage = Phase-to-Phase voltage * 1.732

Antwort: A

Begründung:

The correct formula for calculating Phase-to-Neutral Voltage in a three-phase power system is Phase-to- Neutral Voltage = Phase-to-Phase Voltage / 1.732. This formula applies to balanced three-phase systems, where 1.732 (or #3) represents the relationship between line-to-line and line-to-neutral voltages.

Detailed Explanation:

In three-phase systems, Phase-to-Phase Voltage is higher than Phase-to-Neutral Voltage by a factor of #3.

Dividing the phase-to-phase voltage by 1.732 gives the phase-to-neutral voltage, which is critical for understanding power distribution in three-phase electrical systems commonly found in data centers.

EPI Data Center Specialist References:

EPI electrical training highlights the importance of knowing these calculations for designing and maintaining balanced power systems, which are essential for stable and efficient data center operations.

107. Frage

What indicates the overcurrent of a fuse or breaker?

- A. The maximum electrical current which can flow in a particular electrical system under short-circuit conditions; it is determined by the voltage and impedance of the supply system
- B. The current that a fuse or breaker is able to interrupt without being destroyed or causing an electrically damaging arc
- **C. The current at which the device will trip**
- D. The maximum inrush current an overcurrent protection device can handle within a defined period of time

Antwort: C

Begründung:

"Overcurrent" for protective devices is the condition above the device's rated/trip value that causes operation (tripping/melting).

* A = inrush tolerance, not the definition of overcurrent.

* B = prospective short-circuit current (Ik).

References: IEC 60947-2 (LV circuit breakers, defs 2.5.13 Overcurrent; 2.3.3 Rated short-circuit breaking capacity), IEC 60269 (fuses).

108. Frage

The location of a data center is just above the Arctic Circle (North Pole). The outside air temperature is never above 21°C/70°F. Taking energy efficiency as the highest priority, which cooling system should you recommend?

- A. Standard air conditioning units, as spares might not be readily available
- **B. Airside economizer**
- C. Waterside economizer
- D. Any cooling system can be efficient because the outside air temperature will not influence the temperature of the air intake of the ICT equipment

Antwort: B

Begründung:

In locations with consistently cold temperatures, such as above the Arctic Circle, an airside economizer is the most energy-efficient cooling solution. Airside economizers use cool outside air to lower indoor temperatures, reducing or even eliminating the need for mechanical cooling. Given the consistently low temperatures, this method maximizes energy efficiency by leveraging natural cooling.

Detailed Explanation:

Airside economizers are ideal in environments where outside temperatures are consistently low. By drawing in and filtering cold outdoor air, they directly cool the indoor environment, thereby reducing energy consumption significantly compared to traditional air conditioning. This cooling approach aligns with energy efficiency goals by minimizing mechanical cooling demands.

EPI Data Center Specialist References:

EPI recommends the use of airside economizers in cold climates to achieve high energy efficiency, as they allow data centers to capitalize on ambient conditions for cooling, aligning with sustainability and cost-saving practices.

109. Frage

What is the advantage of OM5 multimode fiber cabling?

- A. No advantage-same as OM4
- B. Designed for cheaper LED transmitters
- **C. Supports SWDM, requiring fewer fibers**
- D. 100 Gbit/s link for 500 m reach

Antwort: C

Begründung:

OM5 is optimized for Short Wavelength Division Multiplexing (SWDM) between 850-953 nm. This allows transmission of multiple wavelengths over a single fiber pair, reducing the number of fibers required for high-speed links.

* OM4 already supports 100 GbE to 150 m, but OM5 with SWDM extends reach and reduces cabling bulk.

* Option B is false because OM5 offers distinct SWDM benefits.

* Option C is incorrect-OM5 is laser-optimized, not LED-based.

* Option D is misleading; OM5 doesn't extend 100 GbE to 500 m (that requires single-mode OS2 fiber).

Thus, the key advantage is SWDM support.

References: ANSI/TIA-568.3-D, ISO/IEC 11801-1, IEEE 802.3cm (400G over MMF).

110. Frage

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