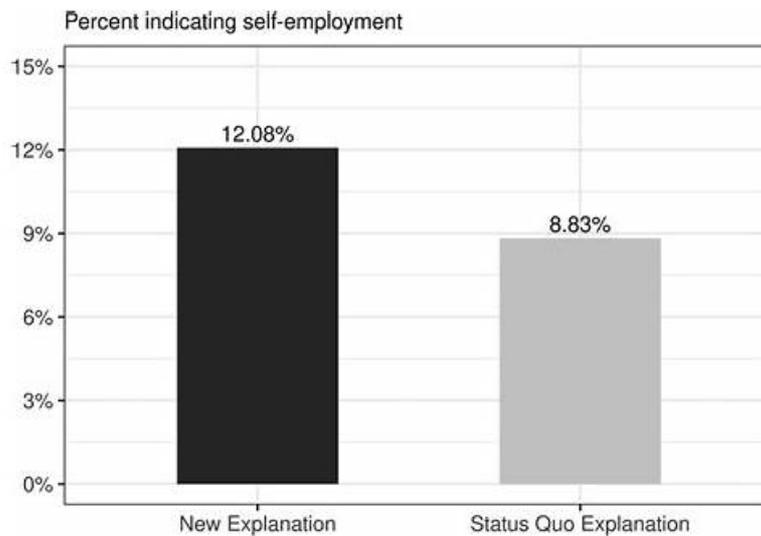


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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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.
Topic 2	<ul style="list-style-type: none"> 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.
Topic 3	<ul style="list-style-type: none"> 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.

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EXIN EPI Certified Data Centre Specialist Sample Questions (Q105-Q110):

NEW QUESTION # 105

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

Answer: D

Explanation:

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.

NEW QUESTION # 106

In order to save energy, you are going to install an automated system to switch off lights. What should be taken into consideration when installing such a system?

- A. At all times, the levels should allow for security cameras to function properly.
- B. The system should not be based on motion detection as the lights might suddenly switch off while staff is still at work.
- C. It is not advisable to use such a system since it will reduce the lifetime of LED lighting.
- D. Security guards should perform regular inspections verifying the system works.

Answer: A

Explanation:

When installing an automated lighting system, especially in a security-sensitive area like a data center, it's essential to ensure that lighting levels support security camera functionality at all times. Sufficient lighting is necessary for cameras to capture clear footage, ensuring continuous monitoring and security regardless of occupancy.

Detailed Explanation:

Automated lighting based on occupancy or time settings can reduce energy costs, but it must be configured to maintain adequate illumination for surveillance. Security cameras require minimum lighting levels to operate effectively, so lighting should be configured to avoid compromising security.

EPI Data Center Specialist References:

EPI emphasizes security and safety in data centers, advising that lighting systems should maintain levels conducive to effective surveillance, ensuring operational security even when lights are automatically controlled.

NEW QUESTION # 107

Should aerosol cleaning solutions be used in the computer room?

- A. No, unless leak detection installed
- B. Yes, only if room smells bad
- C. No, it will contaminate the room
- D. Yes, if not connected to power

Answer: C

Explanation:

Aerosol sprays release particulates and residues into the environment, which can contaminate sensitive ICT equipment. Such contamination accelerates corrosion, interferes with airflow, and increases particulate levels beyond ASHRAE recommended limits. Proper cleaning should use HEPA-filtered vacuum systems or dry wipes, not aerosols. Even odor control aerosols are disallowed in critical rooms.

Therefore, aerosol cleaning solutions must never be used.

References: ASHRAE TC 9.9 "Contamination Guidelines," NFPA 75 §8.4.

NEW QUESTION # 108

Management requests a 15-minute battery bank at full UPS load. UPS specs:

* 30 kVA, PF 0.8

* Battery 384 V (192 cells), end discharge 308 V

* Inverter PF 0.8, 400 V output

What information is missing to perform the calculation?

- A. Load imbalance
- **B. UPS efficiency**
- C. Available battery charging current
- D. Inverter efficiency / output PF

Answer: B

Explanation:

Battery sizing requires determining the real power demand of the UPS. With 30 kVA at 0.8 PF, the real load is 24 kW. To calculate required ampere-hours for 15 minutes of runtime, we need:

Where P = load, t = runtime, V = battery voltage, and $\#$ = UPS efficiency.

Without UPS efficiency, we cannot know actual DC load on the batteries. A UPS with 90% efficiency will require more battery capacity than one with 95%. None of the other listed parameters (PF, imbalance, charging current) are critical for runtime capacity calculation.

References: IEEE Std 1188 (VRLA Batteries), IEC 62040-3 (UPS performance), ANSI/TIA-942-B §6.2.

NEW QUESTION # 109

The logical overview of the data center looks as pictured below. To what TIA-942 Rating is this design made based on electrical only?

- A. Rating-3
- **B. Rating-4**
- C. Rating-2
- D. Rating-1

Answer: B

Explanation:

The diagram shows two independent utility feeds, each backed up by generators, connected to two separate distribution paths. Each path supplies its own UPS system in an N+1 configuration, which then feeds PDUs and ICT loads. Mechanical equipment also has dual redundant feeds. This means the electrical design ensures concurrent maintainability (systems can be maintained without downtime) and fault tolerance (a single fault anywhere in the power path will not impact ICT load).

According to ANSI/TIA-942-B, the electrical infrastructure for a Rated-4 data center must have two active distribution paths, each independently capable of supporting the ICT load. It also requires full redundancy (N+1 or greater) on critical components such as UPS and generators. This diagram clearly illustrates that architecture: dual feeds, dual UPS, and fault tolerance.

In contrast, Rating-3 offers concurrent maintainability but does not guarantee full fault tolerance. Rating-2 and Rating-1 are less stringent and would not provide the dual power distribution seen here.

References: ANSI/TIA-942-B §6.2 (Electrical Infrastructure Requirements), Figure 21 (example of dual active distribution).

NEW QUESTION # 110

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