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1. If a waveform period is determined to be 10 microseconds in duration, what is the frequency of the signal?

- A. 100 kHz
- B. 10 kHz
- C. 1000 Hz
- D. 100 Hz

Answer: A

Explanation:

Frequency is the inverse of period, so to calculate the frequency of a signal with a period of 10 microseconds, you would divide 1 by the period, which is equal to 100 kHz.

2. Data Center Precision Cooling Systems maintain temperature within _____ degree(s) of their design set point.

- A. 1
- B. 2
- C. 3
- D. 5

Answer: A

3. True or False: Human error is a major cause of data center downtime

- A. True
- B. False

Answer: A

Explanation:

Human error is a major cause of data center downtime. Human mistakes are one of the top causes of data center outages, accounting for around one-third of all downtime incidents. Common causes of human error in data centers include misconfiguration, inadequate maintenance, and improper security practices. To reduce the risk of human error, it is important to ensure that data center staff receive proper training, have adequate access control measures in place, and are familiar with best practices for data center operations.

4. A _____ generator system is a combination of an electrical generator and a mechanical engine mounted together to form a single piece of equipment.

- A. passive
- B. standby
- C. active
- D. software

Answer: B

Explanation:

A Standby Generator System is a combination of an electrical generator and a mechanical engine mounted together to form a single piece of equipment. The generator provides power to essential appliances and equipment in the event of a power outage.

Standby Generator Systems are usually powered by gasoline, diesel, natural gas, or propane, and they are designed to be able to be activated quickly in the event of an emergency.

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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 3	<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.

EXIN EPI Certified Data Centre Specialist Sample Questions (Q75-Q80):

NEW QUESTION # 75

You need to install a highly sensitive fire detection system. The data center has a high airflow rate. Which system should you recommend?

- A. Photoelectric smoke detector
- B. Dry pipe sprinkler system
- C. Ionization smoke detector
- D. **VIEW (Very Early Warning) smoke detector**

Answer: D

Explanation:

Data centers typically have high airflow environments due to CRAC/CRAH units, containment, and raised floors. Standard smoke detectors (ionization or photoelectric) often fail to detect incipient smoke because the air movement disperses particles.

The correct solution is VESDA/VIEW (Very Early Warning) smoke detection systems, which use aspirating smoke detectors (ASD). These systems continuously sample air through pipes and can detect smoke particles at concentrations as low as 0.001% obscuration/m. This provides early detection well before fire growth, allowing mitigation without system shutdown.

* Dry pipe sprinklers (A) are suppression, not detection.

* Ionization detectors (B) are sensitive to flaming fires but unreliable in high-airflow environments.

* Photoelectric detectors (C) are better for smoldering fires but still inadequate in high airflow compared to ASD systems.

References: NFPA 75 §5.4.3, NFPA 76 (Telecom facilities - aspirating systems), ISO 7240-20 (Aspirating Smoke Detectors).

NEW QUESTION # 76

Do you need to consider bullet (ballistics) protection when designing a data center?

- A. Bullet (ballistics) protection is required by ANSI/TIA-942 for all data centers.
- B. **Bullet (ballistics) protection is only required if the facility is a potential target or the building is in the vicinity of a potential target.**
- C. Bullet (ballistics) protection is required by ANSI/TIA-942 for data centers Rated 3/4.
- D. Bullet (ballistics) protection is only required when the data center is located in an area with a high crime rate.

Answer: B

Explanation:

Bullet (ballistics) protection is typically considered only for data centers that are potential targets or located near such targets. While ANSI/TIA-942 does not specifically require bulletproofing for all data centers, it is prudent to consider it based on location risk assessments, especially if the facility is in a high-risk area or near critical infrastructure that could attract threats.

Detailed Explanation:

Protective measures like bulletproofing depend on the threat landscape and the data center's exposure to risks such as crime or terrorism. Assessments for physical security are typically customized based on location-specific risks rather than being universally required by data center standards.

EPI Data Center Specialist References:

EPI guidelines emphasize customizing physical security measures based on threat assessments, suggesting that bulletproofing is appropriate in specific circumstances where the facility's risk profile justifies additional security measures.

NEW QUESTION # 77

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. It depends on the type of gas-based fire suppression which will be installed.
- B. **No, it will give a longer reaction time for the smoke detection system and there might also be bypass airflow.**
- 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: B

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 # 78

When installing a raised floor, can we use a spirit level bar to level the floor?

- A. Yes, spirit level bars can be used as long as their length is longer than 60 cm/2 ft (the size of a typical raised floor tile).
- B. **No, because using a spirit level bar, a measurement error will be transferred from pedestal to pedestal.**
- C. Yes, using a spirit level bar for raised floors higher than 40 cm is preferred.
- D. Yes, but spirit level bars can only be used in the vertical plane.

Answer: B

Explanation:

A spirit level bar should not be used for leveling a raised floor, as measurement errors are likely to propagate from one pedestal to the next. Spirit levels can introduce cumulative errors, leading to uneven floors, particularly in large installations where precise leveling is critical.

Detailed Explanation:

Using a laser level or a precision leveling device is recommended to ensure accuracy across all floor tiles.

Spirit levels, while adequate for short spans, can transfer small inaccuracies from one pedestal to another, which can cause alignment issues and floor instability over time.

EPI Data Center Specialist References:

EPI data center guidelines discourage the use of spirit levels for raised floors. Instead, they advocate for precision tools like laser

levels that ensure consistency and accuracy in large-scale installations, aligning with best practices for raised floor construction.

NEW QUESTION # 79

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

Answer: D

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 # 80

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