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AEE Certified Energy Manager (CEM) Sample Questions (Q111-Q116):

NEW QUESTION # 111
Thermal scans of electrical equipment are useful for:

- A. Locating a loose electrical connection
- B. Locating areas of high power factor
- C. Reading current carrying capacity of installed conductors
- D. Measuring the load on a refrigerant system

Answer: A

Explanation:
Step 1: Purpose of Thermal Scans
Thermal scans (infrared thermography) detecttemperature variationsin electrical components.
* Loose connectionsincrease resistance # causeoverheating, which isvisible in thermal scans.
Step 2: Analysis of Each Option
* A. Locating areas of high power factor#Incorrect#Power factor is measured with power meters.
* B. Reading current-carrying capacity of conductors#Incorrect#Measured using ammeters and engineering data.
* C. Locating a loose electrical connection#Correct#Loose connections causeheat buildup, easily detected with thermal scans.

* D. Measuring the load on a refrigerant system#Incorrect#Refrigerant loads are measured using pressure sensors and flow meters. Thus, the correct answer isC. Locating a loose electrical connection.

NEW QUESTION # 112
Which of the following is/are benefits of commissioning?

- A. All of the above
- B. Ensures a system is installed to operate as intended
- C. Ensures staff know how to maintain a system as intended
- D. Ensures a system is designed to operate as intended
- E. Ensures staff know how to operate a system as intended

Answer: A

Explanation:
1) Definition of Commissioning (CEM Standard)
According to the AEE Certified Energy Manager (CEM) Body of Knowledge and the ASHRAE/AEE commissioning guidance referenced in CEM training, commissioning (Cx) is a systematic quality assurance process applied throughout the design, installation, startup, and operation phases of a facility to ensure that building systems perform as intended by the owner and designer.
2) Evaluation of Each Option
* A. Ensures a system is designed to operate as intended
* Commissioning includes design review to verify that the design intent, owner's project requirements (OPR), and basis of design (BOD) are aligned.
* CEM materials explicitly include design-phase commissioning as a benefit.
* B. Ensures a system is installed to operate as intended
* Construction and installation verification is a core commissioning activity.
* Functional performance testing confirms systems are installed and perform per design.
* C. Ensures staff know how to operate a system as intended
* Commissioning requires operator training, review of control sequences, and system demonstrations.
* AEE CEM guidance highlights improved operations staff competence as a major benefit.
* D. Ensures staff know how to maintain a system as intended
* Commissioning includes delivery and review of O&M manuals, maintenance procedures, and hands-on training.
* This reduces long-term energy waste and equipment degradation.
3) CEM Exam Key Concept
Commissioning improves energy performance, system reliability, occupant comfort, and staff capability by verifying design intent, installation quality, and operational readiness.

NEW QUESTION # 113
A facility has the thermal cooling load profile shown in the table below. The utility rate traffic has an no-peak time-of-use period that begins at 10:00 a.m ends at 7:00 p.m. What chiller capacity (output) is required for a load-leveling operating strategy?

Time of Day	Facility Design Cooling Load	Time of Day	Facility Design Cooling Load
Midnight to 1:00 a.m.	2 GJ	Noon to 1:00 p.m.	8 GJ
1:00 a.m. to 2:00 a.m.	2 GJ	1:00 p.m. to 2:00 p.m.	9 GJ
2:00 a.m. to 3:00 a.m.	2 GJ	2:00 p.m. to 3:00 p.m.	9 GJ
3:00 a.m. to 4:00 a.m.	2 GJ	3:00 p.m. to 4:00 p.m.	9 GJ
4:00 a.m. to 5:00 a.m.	2 GJ	4:00 p.m. to 5:00 p.m.	9 GJ
5:00 a.m. to 6:00 a.m.	2 GJ	5:00 p.m. to 6:00 p.m.	8 GJ
6:00 a.m. to 7:00 a.m.	4 GJ	6:00 p.m. to 7:00 p.m.	6 GJ
7:00 a.m. to 8:00 a.m.	4 GJ	7:00 p.m. to 8:00 p.m.	6 GJ
8:00 a.m. to 9:00 a.m.	4 GJ	8:00 p.m. to 9:00 p.m.	4 GJ
9:00 a.m. to 10:00 a.m.	6 GJ	9:00 p.m. to 10:00 p.m.	4 GJ
10:00 a.m. to 11:00 a.m.	6 GJ	10:00 p.m. to 11:00 p.m.	2 GJ
11:00 a.m. to Noon	8 GJ	11:00 p.m. to Midnight	2 GJ

[Question from the previous image, which was about chiller capacity for load leveling, but the table was missing]

- A. 8.0 GJ/h
- B. 5.0 GJ/h
- C. 7.0 GJ/h
- D. 4.0 GJ/h

Answer: B

Explanation:
Comprehensive Detailed Step by Step Explanation with all AEE Energy Manager (CEM) References
* Interpret the load profile (hourly cooling energy):The table gives the facility cooling load in GJ per hour interval (so numerically it's an hourly rate for each hour).
* Compute the total daily cooling energy (sum of 24 hourly loads):
* 12:00 a.m.-6:00 a.m.: 6 hr × 2 = 12 GJ
* 6:00-7:00 a.m.: 4 # 16 GJ
* 7:00-8:00 a.m.: 4 # 20 GJ
* 8:00-9:00 a.m.: 4 # 24 GJ
* 9:00-10:00 a.m.: 6 # 30 GJ
* 10:00-11:00 a.m.: 6 # 36 GJ
* 11:00 a.m.-12:00 p.m.: 8 # 44 GJ
* 12:00-1:00 p.m.: 8 # 52 GJ
* 1:00-2:00 p.m.: 9 # 61 GJ
* 2:00-3:00 p.m.: 9 # 70 GJ
* 3:00-4:00 p.m.: 9 # 79 GJ
* 4:00-5:00 p.m.: 9 # 88 GJ
* 5:00-6:00 p.m.: 8 # 96 GJ
* 6:00-7:00 p.m.: 6 # 102 GJ
* 7:00-8:00 p.m.: 6 # 108 GJ
* 8:00-9:00 p.m.: 4 # 112 GJ
* 9:00-10:00 p.m.: 4 # 116 GJ
* 10:00-11:00 p.m.: 2 # 118 GJ
* 11:00 p.m.-12:00 a.m.: 2 # 120 GJ total per day
So, Total daily cooling energy = 120 GJ.
* Apply the CEM "load-leveling" operating strategy sizing rule:In the AEE CEM Thermal Storage training material, Load Leveling is described as operating the chiller at a constant (or near constant) load for 24 hours per day, and the "load leveling chiller load calculations" are based on Total energy
/ Hours available to operate chillers-for load leveling, that operating window is 24 hours. portal.
aeecenter.org
Therefore:
* Why the "no-peak 10 a.m.-7 p.m." detail doesn't change the load-leveling answer:That time window is typically used when a strategy restricts chiller operation to certain hours (e.g., full load shifting). But load leveling, per the CEM training description, is the strategy where the chiller runs all day at (near) constant load, using storage to absorb the difference between constant production and variable building load

NEW QUESTION # 114
According to ISO 50001. when performing internal audits on the energy management system in an organization the internal auditor should do which of the following?
SELECT THE CORRECT ANSWER

- A. Assess actual activities as practiced against what the written procedures state
- B. All of the above
- C. Review the written procedures related to the area under audit
- D. Look for opportunities for energy improvement and to minimize bureaucracy inthe energy management system
- E. Focus on the areas of significant energy use

Answer: B

Explanation:
When conducting internal audits of an Energy Management System (EnMS) in accordance with ISO 50001, auditors are expected to perform several key activities to ensure the system's effectiveness and continual improvement. These activities include:
* Focus on Areas of Significant Energy Use:Auditors should prioritize auditing areas that have substantial energy consumption, as improvements in these areas can lead to significant energy performance enhancements.
* Review Written Procedures Related to the Area Under Audit:A thorough examination of documented procedures ensures that they align with ISO 50001 requirements and organizational practices. This review helps in identifying any discrepancies between documented procedures and actual practices.
* Assess Actual Activities Against Written Procedures:Auditors compare on-ground activities with documented procedures to verify compliance and identify deviations. This assessment ensures that operations are performed as intended and in line with established protocols.

* Look for Opportunities for Energy Improvement and Minimize Bureaucracy:Identifying opportunities for enhancing energy performance is a core objective of the audit.Auditors should also aim to streamline the EnMS by reducing unnecessary complexities, thereby making it more efficient and user-friendly.
By encompassing all these activities, internal auditors ensure a comprehensive evaluation of the EnMS, leading to effective energy management and continual improvement. Therefore, the correct answer is E. All of the above.

NEW QUESTION # 115
A cooling tower delivers water to a chilled-water plant at 21°C. The outside ambient air conditions are 19°C dry bulb, 50% relative humidity. Using the psychrometric chart, what is the approach temperature of the cooling tower outlet water temperature to the ambient air wet-bulb temperature?
SELECT THE CORRECT ANSWER

- A. 6°C
- B. 8°C
- C. 4°C
- D. 10°C

Answer: B

NEW QUESTION # 116
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