

# CEM Latest Exam Cost - CEM New Study Notes

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## CEM EXAM 1 QUESTIONS AND ANSWERS WITH SOLUTIONS 2024

Scientific question - ANSWER no such thing as "the scientific method"

can be answered by doing experiments, making observations, taking measurements in a replicable way

What do scientists do? - ANSWER 1. ask questions

2. design experiments

3. gather and analyze data

4. make claims (based on data and evidence)

5. Develop expectations, models and theories about how the universe behaves how it does

CLAIM, EVIDENCE, REASONING - ANSWER you need evidence if you are going to make a claim and you need to support that with data

1. CLAIM- the target of your explanation

2. EVIDENCE - scientific principal you are using to support your claim

3. REASONING- that connects your claim to evidence

ex. claim if I add milk to hot coffee the temp will decrease

scientific model - ANSWER can be a drawing or a graph or a diagram or equation physical or mental used to help make sense or predict what will happen

they make testable, quantifiable predictions

and this can help us explain WHY

a scientific theory - ANSWER based on observations/ experiments

makes testable predictions

may change over time as new evidence becomes available

is falsifiable

restricted to natural phenomenon

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## AEE Certified Energy Manager (CEM) Sample Questions (Q18-Q23):

### NEW QUESTION # 18

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

**Answer: A**

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 # 19

Which of the following is a closed-loop controller?

- **A. Thermostat for an air conditioning unit**
- B. Accelerator pedal in an automobile
- C. Manual dimmer for a light switch
- D. Time clock schedule controller

**Answer: A**

### NEW QUESTION # 20

How can commissioning reduce the life-cycle cost to owners and operators?

- **A. All of the above**
- B. Improve the performance of energy systems
- C. Improve the effectiveness of operations and maintenance
- D. Reduce the cost of change orders during construction
- E. Improve the satisfaction of building occupants

**Answer: A**

### NEW QUESTION # 21

In a warehouse, lights are mounted 4 meters above the floor. This provides an average light level of 150 lux.

To increase the light level without installing more lights or higher Wattage lights, you lower the light fixtures with pendants so that the lights are located 3.25 meters above the floor. Calculate the new average light level on the floor.

- A. 276 lux
- B. 227 lux
- C. 166 lux
- D. 150 lux
- E. 176 lux

**Answer: E**

#### NEW QUESTION # 22

A cooling tower is delivering water to a chilled-water plant. The cooling tower outlet temperature has a 6°C approach temperature to the ambient air, wet-bulb temperature. The outside air conditions are 20°C dry bulb, 60% relative humidity. Using the psychrometric chart, at what temperature can the cooling tower deliver water to the chilled-water plant?

- A. 17°C
- B. 21°C
- C. 25°C
- D. 13°C

**Answer: A**

#### NEW QUESTION # 23

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