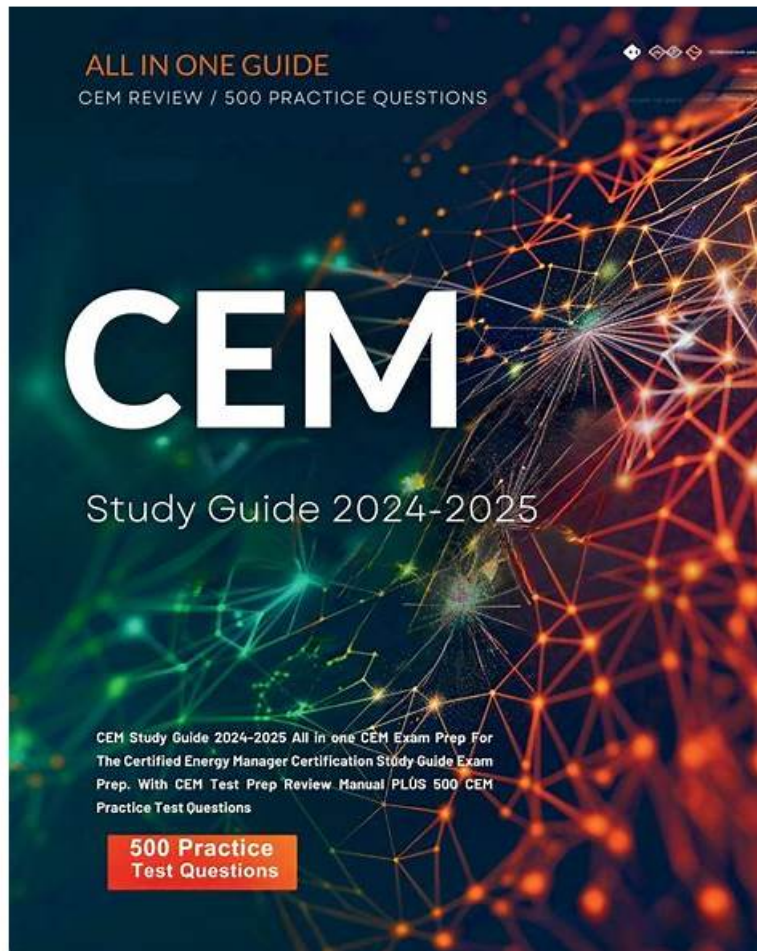


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## AEE Certified Energy Manager (CEM) Sample Questions (Q36-Q41):

NEW QUESTION # 36

Natural gas costs \$4.80/GJ. How much does it cost to heat 500 liters of water from 18°C to 50°C using a natural gas water heater with an efficiency of 85%? [The efficiency and fuel price are both based on HHV. The specific heat of water (C) is 4.2 kJ/kg-°C.]

- A. \$1.44
- B. \$0.25
- C. \$0.38
- **D. \$0.76**
- E. \$1.25

**Answer: D**

Explanation:

To calculate the cost of heating water using natural gas:

Step 1: Compute Energy Required to Heat the Water

Given:

\* Mass of water = 500 L = 500 kg

\* Temperature rise ( $\Delta T$ ) = 50°C - 18°C = 32°C

\* Specific heat of water ( $C_p$ ) = 4.2 kJ/kg-°C

Energy Required (Q) =  $m \times C_p \times \Delta T$

=  $500 \times 4.2 \times 32$

= 67,200 kJ = 67.2 MJ

□

#### NEW QUESTION # 37

A controller has a signal output that can range from 4 to 20 mA (milli-amperes). The controller regulates the output temperature from a three-way mixing valve from 5°C to 15°C. What is the control gain?

- **A. 0.6**
- B. 1.4
- C. 1.2
- D. 1.6
- E. 0.8

**Answer: A**

#### NEW QUESTION # 38

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

**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 # 39

Natural gas costs \$4.80/GJ. How much does it cost to heat 500 liters of water from 18°C to 50°C using a natural gas water heater with an efficiency of 85%? [The efficiency and fuel price are both based on HHV.

The specific heat of water (C) is 4.2 kJ/kg-°C.]

- A. \$1.44
- B. \$0.25
- C. \$0.38
- **D. \$0.76**
- E. \$1.25

**Answer: D**

Explanation:

To calculate the cost of heating water using natural gas:

Step 1: Compute Energy Required to Heat the Water

Given:

\* Mass of water = 500 L = 500 kg

\* Temperature rise ( $\Delta T$ ) = 50°C - 18°C = 32°C

\* Specific heat of water ( $C_p$ ) = 4.2 kJ/kg-°C

Energy Required (Q) =  $m \times C_p \times \Delta T$

=  $500 \times 4.2 \times 32$

= 67,200 kJ = 67.2 MJ

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### NEW QUESTION # 40

The temperature in an unconditioned mechanical room is found to typically be around 23°C warmer than ambient air. If the air intake of an air compressor located in the mechanical room is routed through a nearby wall so that ambient air is fed directly to the air compressor's intake, what impact can be expected on the air compressor's energy requirement?

- A. No measureable change in energy use
- B. Increase energy use by 3.8%
- C. Increase energy use by 7.6%
- D. Decrease energy use by 3.8%
- **E. Decrease energy use by 7.6%**

**Answer: E**

### NEW QUESTION # 41

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