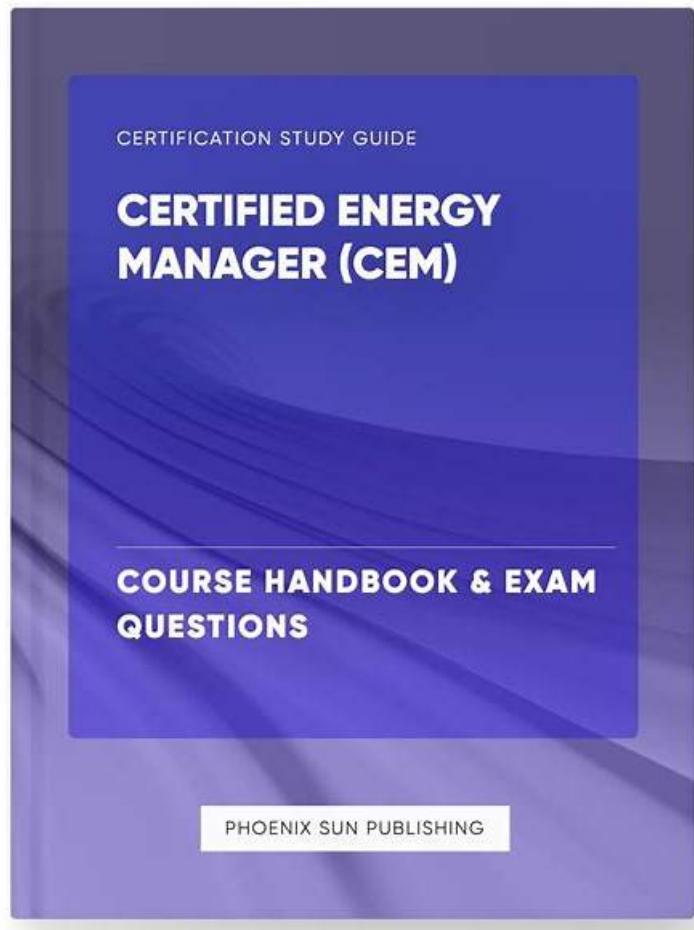


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AEE Certified Energy Manager (CEM) Sample Questions (Q46-Q51):

NEW QUESTION # 46

An energy-saving project saves \$30,000 per year. The project life is 10 years and the company minimum annual rate of return (MARR) is 15%. How much can the project cost and still be cost effective?

- A. \$188,343
- B. \$198,992
- C. \$201,123
- D. \$150,570
- E. \$165,903

Answer: E

NEW QUESTION # 47

A facility replaces a natural gas heating system rated at 10,000 kJ/h and 80% efficiency with an electric heat pump rated at 10,000 kJ/h and a coefficient of performance (COP) of 2.3. Will this project also reduce the annual energy utilization index (EUI) for the facility?

- A. Yes
- B. No

Answer: A

Explanation:

The Energy Utilization Index (EUI) is measured as total energy consumption per unit area.

Step 1: Compare Energy Inputs for Both Systems

- * Existing Natural Gas System
- * Heating output: 10,000 kJ/h
- * Efficiency: 80%
- * Required input energy

A screenshot of a math test AI-generated content may be incorrect.

$$\frac{10,000}{0.80} = 12,500 \text{ kJ/h}$$

- Electric Heat Pump:
 - Heating output: 10,000 kJ/h
 - COP: 2.3
 - Required input energy:

$$\frac{10,000}{2.3} = 4,347.8 \text{ kJ/h}$$

Step 2: Determine Energy Savings

- The heat pump requires 4,347.8 kJ/h, which is significantly lower than the 12,500 kJ/h required by the gas system.
- Since less total energy is consumed, the EUI will decrease.

Thus, the correct answer is A. Yes.

NEW QUESTION # 48

The International Performance Measurement and Verification Protocol (IPMVP) has how many categories (method options) to determine the performance of an energy- or water-consuming system?

- A. 3 Options
- B. 5 Options
- C. 2 Options
- D. 6 Options
- E. 4 Options

Answer: E

NEW QUESTION # 49

Which of the following is NOT included in commissioning documentation?

- A. Financing payment structure reports
- B. Equipment operations and maintenance manuals
- C. Original facility and equipment design intent
- D. As-built drawings
- E. Equipment control sequence documentation

Answer: A

Explanation:

Commissioning documentation, per AEE CEM and ASHRAE Guideline 0, focuses on ensuring systems are designed, installed, operated, and maintained as intended.

Included commissioning documentation typically consists of:

- * Original facility and equipment design intent (OPR/BOD)
- * As-built drawings
- * Equipment control sequence documentation
- * Operations & Maintenance (O&M) manuals

Financing payment structure reports are related to project finance or performance contracting, not commissioning.

NEW QUESTION # 50

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

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 (ΔT) = 50°C - 18°C = 32°C
- * Specific heat of water (Cp) = 4.2 kJ/kg·°C

Energy Required (Q) = $m \times C_p \times \Delta T$
 $= 500 \times 4.2 \times 32$
 $= 67,200 \text{ kJ} = 67.2 \text{ MJ}$

Step 2: Convert Energy Requirement to GJ
 $67.2 \text{ MJ} = 0.0672 \text{ GJ}$

Step 3: Adjust for Water Heater Efficiency (85%)
 $\text{Input Energy Required} = \frac{0.0672}{0.85} = 0.0791 \text{ GJ}$

Step 4: Compute Cost
 $\text{Total Cost} = 0.0791 \times 4.80 = 0.76 \text{ USD}$

Thus, the correct answer is C. \$0.76.

NEW QUESTION # 51

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