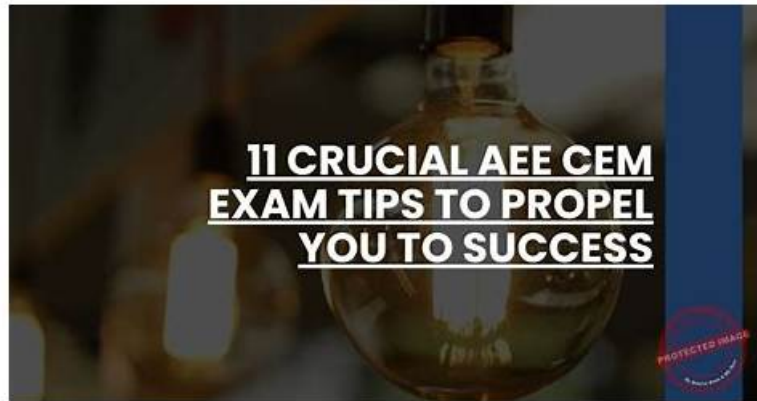


# Exam AEE CEM Syllabus | Reliable CEM Test Objectives



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## AEE Certified Energy Manager (CEM) Sample Questions (Q85-Q90):

### NEW QUESTION # 85

Electricity costs \$0.10 per kWh. If an electric water heater has an efficiency of 95%. What is the equivalent price of natural gas per Gigajoule for a natural gas water heater? The natural gas water heater has an efficiency of 95% based on lower-heating value. [Natural gas has an energy content of 36.400 KJ/m<sup>3</sup> (higher-heating value) and 32.760 KJ/m<sup>3</sup> (lower-heating value).] SELECT THE CORRECT ANSWER

- A. \$25 / GJ
- B. \$33 / GJ
- C. \$15/GJ
- **D. \$21 / GJ**

**Answer: D**

Explanation:

To determine the equivalent price of natural gas per gigajoule (GJ) for a natural gas water heater, we compare the cost of electricity and natural gas on an energy-equivalent basis.

Step 1: Convert Electricity Cost to Cost per GJ

\* Electricity cost: \$0.10/kWh

\* 1 GJ = 277.8 kWh

$$\text{Cost per GJ for electricity} = 0.10 \times 277.8 = 27.78 \text{ USD/GJ}$$

**Step 2: Adjust for Efficiency**

- Electric water heater efficiency: 95% or 0.95
- Natural gas water heater efficiency: 95% or 0.95 (based on LHV)

$$\text{Adjusted energy cost for electricity} = \frac{27.78}{0.95} = 29.24 \text{ USD/GJ}$$

**Step 3: Convert to Equivalent Natural Gas Cost**

- LHV of natural gas: 32.76 MJ/m<sup>3</sup>
- Convert MJ to GJ: 1 GJ = 1000 MJ, so
  - 1 m<sup>3</sup> of natural gas = 0.03276 GJ
  - 1 GJ = 1 / 0.03276 = 30.52 m<sup>3</sup> of natural gas

$$\text{Equivalent price of natural gas} = \frac{29.24}{1.4} = 20.89 \approx 21 \text{ USD/GJ}$$

Thus, the correct answer is B. \$21/GJ.

**NEW QUESTION # 86**

A new lighting system costs \$60,000. The new lighting system has a 15-year life and the minimum required rate of return (MARR) is 15%. How much must the new lighting system save to be life-cycle cost effective?

- A. \$12,556/year
- B. \$15,650/year
- C. \$10,260/year
- D. \$27,090/year
- E. \$33,200/year

**Answer: A**

**NEW QUESTION # 87**

Which heat recovery device listed below can be used to preheat boiler make-up water using the heat energy from skimming blowdown?

- A. Desiccant heat wheel
- B. Regenerative recuperator
- C. Heat pipe
- D. Shell and tube heat exchanger

**Answer: D**

**NEW QUESTION # 88**

What does a manometer measure?

- A. Voltage
- B. Pressure
- C. Distance
- D. Volume

**Answer: B**

Explanation:

A manometer is used to measure pressure, particularly in gases and liquids.

### Step 1: Analysis of Each Option

- \* Pressure (A)#Correct. Manometers are commonly used in HVAC, industrial, and lab applications.
- \* Volume (B)#Incorrect. Volume is measured using flow meters or tanks.
- \* Distance (C)#Incorrect. Distance is measured using rulers or lasers.
- \* Voltage (D)#Incorrect. Voltage is measured using voltmeters.

Thus, the correct answer is A. Pressure.

### NEW QUESTION # 89

What term describes the difference between the control signal value and the set point?

- A. Cut off
- **B. Error or offset**
- C. Dead band
- D. Differential
- E. Dead time

**Answer: B**

### NEW QUESTION # 90

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