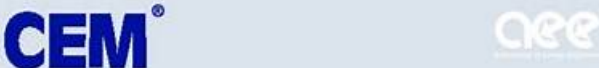


# Free PDF Quiz AEE - CEM - Certified Energy Manager (CEM)–The Best Pass Guaranteed



**CEM<sup>®</sup>**  
**Certified Energy Manager<sup>®</sup>**  
Recognized as the Highest Standard for Energy Efficiency Professionals

**Who are Certified Energy Managers?**

- Are you an energy manager looking to validate your experience and knowledge?
- Are you a consultant that specializes in improving the energy efficiency of buildings and building systems?
- Are you a building owner or manager looking to understand how energy savings can finance your next project?
- Are you involved in developing energy efficiency projects, strategies or sustainability programs for your organization or your clients?

A Certified Energy Manager is an individual who optimizes the energy performance of a facility, building, or industrial plant. The CEM is a systems integrator for electrical, mechanical, process, and building infrastructure, analyzing the optimum solutions to reduce energy consumption in a cost-effective approach. CEM's are often team leaders and help to develop and implement their organizations' energy management strategies. CEM's have gained increased recognition within the energy industry and by companies looking to strengthen their competitive position by having responsible energy strategies and sustainable operational practices.

**What does the Certified Energy Manager (CEM<sup>®</sup>) Certification Program offer?**  
This program helps educate and qualify individuals involved in optimizing the use of energy in buildings and systems. By obtaining the CEM certification, candidates gain industry and peer recognition by demonstrating their understanding of energy-efficiency principles, practices, and technologies. The program raises the professional standards, both technical and ethical, of those engaged in energy efficiency and energy management.

**What is the bottom line for me or my company?**  
Gaining a wide-reaching and industry-recognized certification is always a personal and financial investment. Since its inception in 1981, the CEM certification program has demonstrated its validity year after year. Individuals tell us a CEM certification has helped improve their career, improve their salary, and increase their job responsibility. Holding a CEM certification shows a fundamental understanding of the industry and a commitment to their profession. Companies, organizations, and consultants with a CEM on-staff often see a higher affinity with their customers because CEMs understand their customer's requirements, speak the language of energy efficiency, and are a trusted, unbiased source for accurate information.

**More Information**  
CEM<sup>®</sup> Website

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## AEE Certified Energy Manager (CEM) Sample Questions (Q129-Q134):

### NEW QUESTION # 129

What is the Energy Use index (EUI) for a 4,000 m<sup>2</sup> building that uses the following amounts of energy each year?

Natural gas	Actual 1,600 GJ/yr
Fuel oil (39,000 kJ/liter)	19,000 liters/yr
Electricity	300,000 kWh/yr

- A. 625,600 kJ/m<sup>2</sup>-yr
- B. 3,220,800 kg/m<sup>2</sup>-yr
- C. 855,250 kJ/m<sup>2</sup>-yr
- D. 403,311 kJ/m<sup>2</sup>-yr
- E. 1,612,000 kJ/m<sup>2</sup>-yr

Answer: A

Explanation:

The Energy Use Index (EUI) is calculated as the total annual energy consumption divided by the building area.

#### Step 1: Convert Energy Units to kJ

- Natural gas:

$$1,600 \text{ GJ} = 1,600 \times 10^6 = 1,600,000,000 \text{ kJ}$$

- Fuel oil:

$$19,000 \text{ liters} \times 39,000 \text{ kJ/liter} = 741,000,000 \text{ kJ}$$

- Electricity:

$$1 \text{ kWh} = 3,600 \text{ kJ}$$

$$300,000 \text{ kWh} \times 3,600 = 1,080,000,000 \text{ kJ}$$

#### Step 2: Calculate Total Energy Use

$$1,600,000,000 + 741,000,000 + 1,080,000,000 = 3,421,000,000 \text{ kJ}$$

#### Step 3: Calculate EUI

$$\begin{aligned} \text{EUI} &= \frac{3,421,000,000}{4,000} \\ &= 625,600 \text{ kJ/m}^2\text{-yr} \end{aligned}$$

Thus, the correct answer is B. 625,600 kJ/m<sup>2</sup>-yr.

### NEW QUESTION # 130

If installed without ancillary equipment, photovoltaic power cells generate what type of power?

- A. Direct current
- B. Square-wave alternating current
- C. Sinusoidal alternating current

Answer: A

### NEW QUESTION # 131

A 25-kW motor, at full load, drives a centrifugal fan that produces 160,000 liters per second (l/s) of ventilation air. If the fan speed

is reduced to a flow rate of 150,000 l/s, what is the new load on the motor?

- A. 24.2 kW
- B. 25.0 kW
- C. 15.2 kW
- D. 30.3 kW
- E. 20.6 kW

**Answer: C**

#### NEW QUESTION # 132

The temperature in an unconditioned mechanical room is found to typically be around 23°C warmer than ambient (outside) air. If the air intake of an air compressor located in the mechanical room is routed through a nearby wall so that the cooler outside air is fed directly to the air compressor's intake, the compressor's energy requirement will now be expected to:

SELECT THE CORRECT ANSWER

- A. Decrease by 7.6%
- B. Increase by 3.8%
- C. Decrease by 3.8%
- D. Increase by 7.6%
- E. Remain the same

**Answer: C**

#### NEW QUESTION # 133

A new energy-efficient boiler costs \$60,890 to buy and install. The new energy-efficient boiler will save \$15,400 per year and last for 20 years. What is the internal rate of return (IRR) of the project?

- A. 25%
- B. 15%
- C. 20%
- D. 30%
- E. 10%

**Answer: C**

#### NEW QUESTION # 134

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