

# You Need to Trust AEE CEM Exam Questions

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**CERTIFIED EMERGENCY MANAGER CEM FINAL  
EXAM PREP 2025/2026 ACCURATE  
QUESTIONS WITH CORRECT DETAILED  
ANSWERS || 100% GUARANTEED PASS  
<RECENT VERSION>**

1. Emergency - ANSWER ✓ Event that can usually be handled by existing resources, particularly by first responders (fire, police, ambulance) but does not require activation of an EOC or disrupt the community.
2. Disaster - ANSWER ✓ Event that disrupts community functioning and requires resources beyond those used for routine emergencies (e.g., ambulances)
3. Catastrophe - ANSWER ✓ Event that disrupts regional capacities to respond to those affected and requires resources outside the area for an extended time.
4. Emergent Norm Theory - ANSWER ✓ Sociological perspective describing how people respond and adapt to the dynamic conditions fostered by a disaster environment; evolution of new individual, group, and organizational behavioral guidelines.
5. Systems Theory - ANSWER ✓ Perspective focused on the interaction of the built, physical, and human environments.
6. Hazard Identification - ANSWER ✓ Identifying the history, frequency, and location of specific hazards and how they may impact a given location.
7. Risk Analysis - ANSWER ✓ Calculating the potential for an impact and the associated losses based on findings of a hazard identification

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## AEE Certified Energy Manager (CEM) Sample Questions (Q55-Q60):

### NEW QUESTION # 55

A facility has a monthly peak power demand of 1,000 kW and an average power factor of 80%. The facility pays a demand charge of \$7.50/kVA-month. What is the additional cost per month because the power factor is less than 100%?

- A. \$187/month
- B. \$2,244/month
- C. \$3,370/month
- **D. \$1,875/month**
- E. \$0/month

**Answer: D**

Explanation:

To calculate the additional cost due to a power factor of less than 100%, follow these steps:

Step 1: Convert Real Power (kW) to Apparent Power (kVA)

$$\text{Apparent Power (kVA)} = \frac{\text{Real Power (kW)}}{\text{Power Factor (PF)}}$$

$$\frac{1,000}{0.80} = 1,250 \text{ kVA}$$

Step 2: Compute Additional kVA Due to Power Factor

$$\text{Extra kVA} = 1,250 - 1,000 = 250 \text{ kVA}$$

**Step 3: Compute Additional Cost**

$$\text{Extra Cost} = 250 \times 7.50 = 1,875 \text{ USD/month}$$

Thus, the correct answer is **C. \$1,875/month.**

### NEW QUESTION # 56

Which motor parameter is the most difficult to measure with precision?

- A. Input power
- B. Alternating current (AC) frequency
- C. Output power capacity
- **D. Operating load factor**
- E. Operating (rotating) speed

**Answer: D**

### NEW QUESTION # 57

What is the main reason for using instrumentation in energy audits?

- **A. Determine energy flows**
- B. Support the local economy
- C. Validate utility energy bills
- D. Save energy

**Answer: A**

Explanation:

Instrumentation in energy audits serves multiple functions, but the primary reason is to determine energy flows.

\* Measuring Energy Flows:

\* Instrumentation helps quantify energy use in different systems, such as electricity, HVAC, and industrial processes.

- \* It helps identify where energy is used, lost, or wasted.
  - \* Supporting Energy Conservation Efforts:
  - \* By measuring energy flows, auditors can identify inefficiencies and recommend solutions.
  - \* Other Options Analysis:
  - \* Saving energy (A): A result of energy audits, not the main purpose.
  - \* Validating utility bills (C): Important but secondary to understanding energy flows.
  - \* Supporting the local economy (D): Not relevant.
- Thus, the correct answer is B. Determine energy flows.

#### NEW QUESTION # 58

A 100-kW packaged engine-generate combined heat and power (CHP) system has the specifications listed below. The CHP equipment operates fully loaded for 8,000 h/yr. What is the annual fuel cost for the CHP equipment?  
 CHP equipment specifications: Electrical output 100kW Electrical efficiency: 25% Thermal recovery efficiency: 50% Total CHP efficiency: 75% Additional information: Fuel cost: \$3.50/GJ Electricity cost \$0.06/kWh Previous water heating efficiency: 80% Hot water usage: 75,700 liters/day (21 °C temperature rise)  
 [The question from the previous image, which was about calculating the annual cost of heat loss through a wall, but had a discrepancy between the calculated cost and the provided answer choices]

- A. \$43,776/yr
- B. \$28,900/yr
- C. \$58,300/yr
- D. \$32,668/yr
- E. \$52,222/yr

**Answer: A**

#### NEW QUESTION # 59

What is a common method to reduce the impact of voltage imbalance?

- A. Install capacitors to improve power factor on three-phase loads
- B. Rebalance single-phase loads
- C. Install harmonic filters
- D. Reverse phase connections on three-phase motors

**Answer: B**

#### NEW QUESTION # 60

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