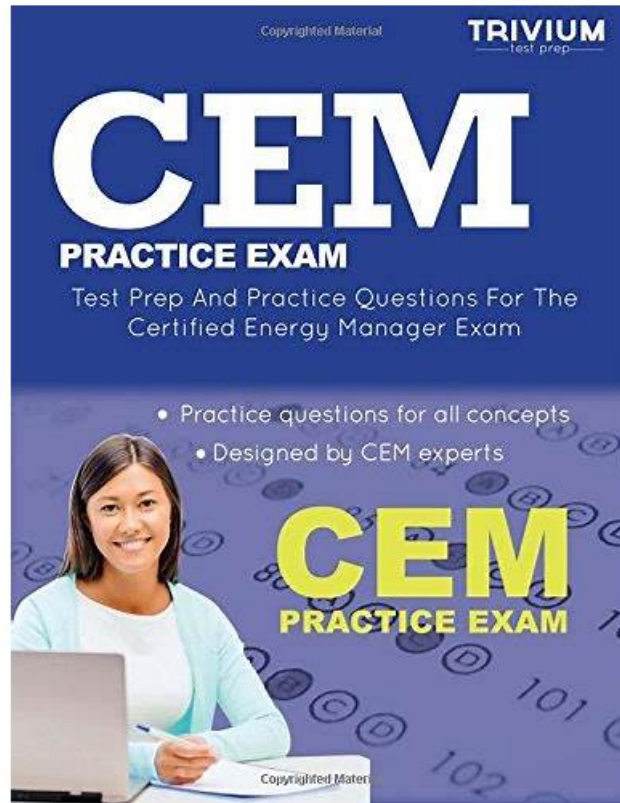


# Certified Energy Manager (CEM) exam test & CEM test training material



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## AEE Certified Energy Manager (CEM) Sample Questions (Q57-Q62):

### NEW QUESTION # 57

In a typical compressed air system, energy can be saved by which of the following actions?

- A. Reducing the air distribution pipe size
- B. Decreasing supply air pressure
- C. Raising the air pressure
- D. Move the inlet air filter to a warmer location
- E. Reducing the capacity of the compressed air receiver tanks

**Answer: C**

### NEW QUESTION # 58

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

**Answer: C**

### NEW QUESTION # 59

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

**Answer: C**

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)

A math equations with numbers and a few lines AI-generated content may be incorrect.

Step 2: Compute Additional kVA Due to Power Factor

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### NEW QUESTION # 60

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

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### NEW QUESTION # 61

A facility has the thermal cooling load profile shown in the table below. The utility rate tariff has an on-peak time-of-use billing period that begins at 10:00 a.m. and ends at 7:00 p.m. Calculate the storage capacity required for a load-shifting operating strategy, to make sure that no thermal cooling is generated by the chiller during the on-peak utility rate period.

[Question from the previous image, which was about storage capacity for load shifting, but the table was missing]

- A. 84 GJ
- **B. 66 GJ**
- C. 48 GJ
- D. 72 GJ

**Answer: B**

### NEW QUESTION # 62

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