

AEE CEM Latest Cram Materials, CEM Reliable Braindumps Sheet



Certified Energy Manager® Training Program

A Certified Energy Manager (CEM®) 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 using a cost-effective approach. CEM's are often team leaders and help to develop and implement their organizations' energy management strategies.

About this Program

AEE's premium training program is recognized across industry for providing energy professionals a holistic "big-picture" view of energy management for non-residential buildings and facilities. Over five days, attendees learn everything they need to know to optimize systems to help reduce costs, improve profits, and increase occupant satisfaction.

What You Will Learn

- Learn energy management from a global perspective, but also understand applicable codes, standards, and policies for your region or country.
- Learn how systems and energy-saving technologies can be used throughout a building, such as HVAC, lighting, motors, boilers, energy storage, CHP, etc.
- Learn how energy management strategies and practices, such as energy audits, or M&V, can help identify energy savings and reduce costs.
- Understand the economic aspects of energy management that you need to know for procurement, supply, and project financing.

At-a-Glance

- * This training program prepares attendees to take the Certified Energy Manager® (CEM®) exam.
- * This program is held over 5 days.
- * You earn 3.3 CEU | 33 PDH | 6.6 AEE Credits for completing this program.

Key Takeaways

- * Work through practical examples to demonstrate the topics and procedures covered.
- * Review the various areas of the Body of Knowledge associated with AEE's certification exam.
- * Discuss one-on-one with an instructor how to apply what you have learned to your business and applications to improve profitability.
- * Leave with a course workbook that will become an invaluable desk reference.

Registration

Candidates should contact their local AEE approved training provider for information about available training programs, the certification application process, exam registration, and associated fees. To find your local training provider visit

aeecenter.org/training

CEM®

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The countless Certified Energy Manager (CEM) (CEM) exam candidates have already passed their dream AEE CEM certification exam and they all have got help from AEE CEM Exam Questions. You can also trust AEE CEM exam practice test questions and start preparation right now.

Comparing to other training institution, our valid CEM vce dumps are affordable, latest and cost-effective, which can overcome the difficulty of valid CEM Actual Test and ensure you pass the exam. It can not only save your time and money, but also help you clear AEE practice exam with high rate.

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AEE Certified Energy Manager (CEM) Sample Questions (Q11-Q16):

NEW QUESTION # 11

Problems Caused by Harmonic Distortion

Which of the following problems is unlikely to be caused by harmonic distortion?

SELECT THE CORRECT ANSWER

- A. "Nuisance" tripping of circuit breakers
- B. Degraded power factor
- C. Lighting "flicker"
- D. **Circulating currents in motor shafts**

Answer: D

NEW QUESTION # 12

An energy-saving project costs \$540,000. The project will have maintenance costs of \$25,000 per year. The energy savings from the project are \$160,000 per year. The project has a life of 10 years with no salvage value. The minimum attractive rate of return (MARR) is 10%. Using end-of-year cash flows, calculate the net- present value (NPV) of the project.

- A. \$456,254
- B. **\$289,575**
- C. \$311,556
- D. \$154,657

Answer: B

Explanation:

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

NEW QUESTION # 13

You are using a performance contract to finance the added cost of using more-efficient equipment in the construction of a new building. Which of the following International Performance Measurement and Verification Protocol (IPMVP) options would you use to verify annual energy savings?

- A. Option E - Stipulated savings
- B. Option A - Retrofit isolation: key parameter measurement
- C. Option D - Calibrated simulation
- D. **Option C - Whole facility measurement**
- E. Option B - Retrofit isolation: all parameter measurement

Answer: D

NEW QUESTION # 14

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

Answer: A

NEW QUESTION # 15

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

Answer: E

Explanation:

To calculate the cost of heating water using natural gas:

Step 1: Compute Energy Required to Heat the Water

Given:

$$\begin{aligned}
 * \text{ Mass of water} &= 500 \text{ L} = 500 \text{ kg} \\
 * \text{ Temperature rise} (\#T) &= 50^\circ\text{C} - 18^\circ\text{C} = 32^\circ\text{C} \\
 * \text{ Specific heat of water (Cp)} &= 4.2 \text{ kJ/kg} \cdot {}^\circ\text{C} \\
 \text{Energy Required (Q)} &= m \times Cp \times \#T \\
 &= 500 \times 4.2 \times 32 \\
 &= 67,200 \text{ kJ} = 67.2 \text{ MJ}
 \end{aligned}$$

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NEW QUESTION # 16

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Candidates who become AEE CEM certified demonstrate their worth in the AEE field.

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