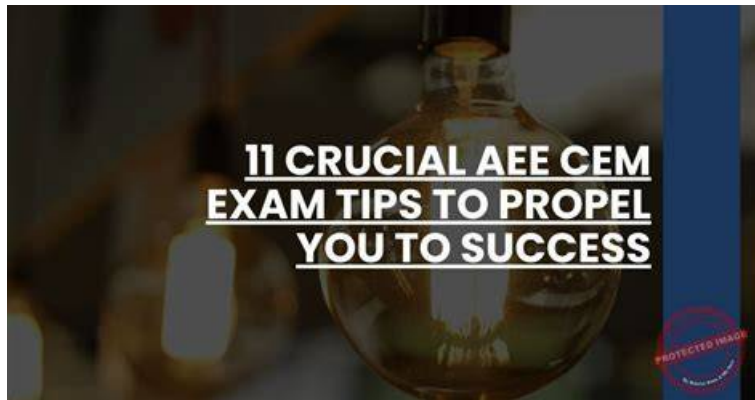


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AEE CEM Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Building Envelope	8-12%	- Air leakage and infiltration - Daylighting and shading - Windows and glazing systems - Insulation types and R-values - Thermal envelope analysis
Topic 2: Electric Power Systems	10-15%	- Harmonics and power quality - Power factor correction - Standby power systems - Lighting systems and controls - Power distribution systems - Motors and drives
Topic 3: Renewable Energy Technologies	8-12%	- Solar thermal systems - Biomass and bioenergy - Geothermal systems - Energy storage technologies - Wind energy systems - Solar photovoltaic systems
Topic 4: Environmental and Regulatory Compliance	5-10%	- Green building standards (LEED, ENERGY STAR) - Sustainability reporting - EPA regulations (Clean Air Act, Clean Water Act) - Carbon footprint calculation - Energy reporting requirements
Topic 5: Energy Accounting and Economics	10-15%	- Energy cost accounting and allocation - Utility rate structures and tariffs - Energy price forecasting - Life cycle cost analysis (LCCA) - Financial analysis techniques (ROI, NPV, IRR)

Topic 6: Energy Auditing	15-20%	- Audit procedures and methodologies - Audit report writing - Metering and measurement equipment - Baseline establishment - Data collection and analysis - Types of energy audits (preliminary, detailed, investment-grade)
Topic 7: Heating, Ventilating, and Air Conditioning (HVAC)	12-18%	- Equipment efficiency ratings - Psychrometrics - HVAC system types and components - Controls and optimization - Indoor air quality - Load calculations - Heat transfer principles
Topic 8: Energy Project Implementation	8-12%	- Energy service companies (ESCOs) - Implementation strategies - Project risk management - Project financing models - Measurement and verification (M&V) - Performance contracting (ESPC)
Topic 9: Facilities Management	8-12%	- Operations and maintenance best practices - Commissioning and re-commissioning - Monitoring and targeting (M&T) - Building automation systems (BAS) - Preventive maintenance programs

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You will need to pass the Certified Energy Manager (CEM) (CEM) exam to achieve the AEE CEM certification. Due to extremely high competition, passing the AEE CEM exam is not easy; however, possible. You can use PrepAwayTest products to pass the CEM Exam on the first attempt. The AEE practice exam gives you confidence and helps you understand the criteria of the testing authority and pass the Certified Energy Manager (CEM) (CEM) exam on the first attempt.

AEE Certified Energy Manager (CEM) Sample Questions (Q77-Q82):

NEW QUESTION # 77

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

Answer: C

NEW QUESTION # 78

A high-pressure steam system passes 180°C condensate (saturated liquid) through a steam trap to an atmospherically vented condensate receiver tank. If the steam trap is working properly, how much of the condensate mass can be lost out the vent of the receiver tank in the form of flash steam?

- A. 6%

- B. 15%
- C. 100%
- D. 25%
- E. 66%

Answer: B

NEW QUESTION # 79

The primary advantage of predictive maintenance over preventive maintenance in building energy systems, is that predictive maintenance:

SELECT THE CORRECT ANSWER

- A. Focuses exclusively on energy savings by optimizing system set points
- B. Schedules routine checks at fixed intervals to reduce downtime
- C. Eliminates the need for regular inspections, reducing operational costs (Note: This option is selected in the image)
- D. Uses real-time data and analytics to identify potential failures before they occur, minimizing unexpected outages

Answer: D

NEW QUESTION # 80

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. \$1.25
- C. \$0.38
- D. \$0.76
- E. \$0.25

Answer: D

Explanation:

To calculate the cost of heating water using natural gas:

Step 1: Compute Energy Required to Heat the Water

Given:

* Mass of water= 500 L = 500 kg

* Temperature rise (ΔT)= 50°C - 18°C = 32°C

* Specific heat of water (C_p)= 4.2 kJ/kg-°C

Energy Required (Q)= $m \times C_p \times \Delta T$

= $500 \times 4.2 \times 32$

=67,200 kJ=67.2 MJ

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Step 2: Convert Energy Requirement to GJ

$$67.2 \text{ MJ} = 0.0672 \text{ GJ}$$

Step 3: Adjust for Water Heater Efficiency (85%)

$$\text{Input Energy Required} = \frac{0.0672}{0.85} = 0.0791 \text{ GJ}$$

Step 4: Compute Cost

$$\text{Total Cost} = 0.0791 \times 4.80 = 0.76 \text{ USD}$$

Thus, the correct answer is C. \$0.76.

NEW QUESTION # 81

How much energy (kJ) is required to heat 2 kg of water from 25°C to 2 kg of water at 100°C? (The specific heat of water (C) is 4.2 kJ/kg-°C. Assume no system losses.)

- A. 840 kJ
- B. 630 kJ
- C. 420 kJ
- D. 510 kJ

Answer: A

NEW QUESTION # 82

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