

CEM Advanced Testing Engine - Customized CEM Lab Simulation



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AEE CEM Exam Syllabus Topics:

Section	Weight	Objectives
Boiler and Steam Systems	4-6	- Maintenance and optimization - Operation and efficiency
Building Automation and Controls	5%	- Building management systems - Control systems and strategies - Automation and optimization
Energy Storage Systems	3-5	- Integration and benefits - Storage technologies and applications
Operations, Maintenance and Commissioning	5%	- Maintenance best practices - Commissioning and retro-commissioning
Industrial Systems	6-8	- Process energy efficiency - Compressed air, pumping, and drying systems - Energy performance indicators
Energy Audits and Instrumentation	10%	- Measurement tools and instrumentation - Audit levels and methodologies - Data collection and analysis
Distributed Generation and Renewable Energy	4-6	- Combined heat and power (CHP) - Grid integration and economics - Solar, wind, biomass, geothermal
Energy Savings Performance Contracting	5%	- Contract structures and financing - Guaranteed savings and risk allocation
Electrical Power Systems and Motors	15%	- Power distribution and quality - Motor systems, efficiency and controls - Power factor correction and load management

Codes, Standards and Regulations	5%	- Energy efficiency codes and standards - Compliance and reporting requirements - Sustainability policies and frameworks
HVAC Systems and Building Envelope	15%	- Thermal envelope performance - Load calculation and system selection - Heating, ventilation and air conditioning
Measurement and Verification	5%	- M&V protocols and standards - Baseline development and savings calculation
Energy Accounting and Economics	15%	- Energy units and conversions - Time value of money, NPV, IRR, payback analysis - Life cycle costing and economic analysis - Utility rate structures and tariffs
Lighting Systems	10%	- Lighting technologies and efficiency - Daylighting integration - Design and control strategies

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Customized AEE CEM Lab Simulation & Real CEM Exam Answers

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AEE Certified Energy Manager (CEM) Sample Questions (Q47-Q52):

NEW QUESTION # 47

What is the purpose of top (or skimming) blowdown in a steam boiler?

- A. To flush out the boiler room drain system
- B. To dilute the level of impurities in the boiler water thus allowing the addition of cleaner make up water
- C. To reduce the buildup of sediment in the boiler
- **D. To reduce the buildup of feedwater chemicals in the boiler**

Answer: D

NEW QUESTION # 48

A compressed air system has a total volume of 247,500 liters. During a 30-minute break in production (air compressor system turned off and no production demand for compressed air), the system pressure drops from 7 bar, gauge (700 kPa, gauge) to 5 bar, gauge (500 kPa, gauge). Calculate the leakage rate in the compressed air system.

- A. 48,250 liters/minute
- B. 22,750 liters/minute
- C. 8,250 liters/minute
- D. 32,000 liters/minute
- **E. 16,500 liters/minute**

Answer: E

NEW QUESTION # 49

How can commissioning reduce the life-cycle cost to owners and operators?

- **A. All of the above**
- B. Improve the satisfaction of building occupants
- C. Improve the performance of energy systems

- D. Reduce the cost of change orders during construction
- E. Improve the effectiveness of operations and maintenance

Answer: A

Explanation:

1) Life-Cycle Cost Reduction via Commissioning (CEM Guidance)

The AEE CEM Body of Knowledge emphasizes that commissioning reduces total life-cycle cost, not just first cost, through multiple pathways.

2) Evaluation of Each Option

- * A. Reduce the cost of change orders during construction
 - * Early detection of design and coordination issues reduces rework.
 - * B. Improve the performance of energy systems
 - * Ensures systems operate at intended efficiency.
 - * C. Improve the satisfaction of building occupants
 - * Better comfort reduces complaints and operational disruptions.
 - * D. Improve the effectiveness of operations and maintenance
 - * Training and documentation improve long-term reliability and efficiency.
- All are documented commissioning benefits in AEE CEM training materials.

NEW QUESTION # 50

What does a manometer measure?

- A. Pressure
- B. Distance
- C. Volume
- D. Voltage

Answer: A

Explanation:

A manometer is used to measure pressure, particularly in gases and liquids.

Step 1: Analysis of Each Option

- * Pressure (A) #Correct. Manometers are commonly used in HVAC, industrial, and lab applications.
- * Volume (B) #Incorrect. Volume is measured using flow meters or tanks.
- * Distance (C) #Incorrect. Distance is measured using rulers or lasers.
- * Voltage (D) #Incorrect. Voltage is measured using voltmeters.

Thus, the correct answer is A. Pressure.

NEW QUESTION # 51

A piece of equipment costs \$250,000 to buy and install. The annual operating cost for the equipment is \$50,000 per year. The equipment will last 15 years. After 15 years, the equipment will have no net salvage value. The annual interest rate is 10%. What is the present value of the life-cycle cost to own and operate the equipment? Use end-of-year annual cash flow analysis.

- A. \$556,945
- B. \$756,113
- C. \$630,300
- D. \$250,000

Answer: A

NEW QUESTION # 52

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