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CEM[®]
Certified Energy Manager[®]
Recognized as the Highest Standard for Energy Efficiency Professionals

Who are Certified Energy Managers?

- Are you an energy manager looking to validate your experience and knowledge?
- Are you a consultant that specializes in improving the energy efficiency of buildings and building systems?
- Are you a building owner or manager looking to understand how energy savings can finance your next project?
- Are you involved in developing energy efficiency projects, strategies or sustainability programs for your organization or your clients?

A Certified Energy Manager 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 in a cost-effective approach. CEMs are often team leaders and help to develop and implement their organizations' energy management strategies. CEMs have gained increased recognition within the energy industry and by companies looking to strengthen their competitive position by having responsible energy strategies and sustainable operational practices.



What does the Certified Energy Manager (CEM[®]) Certification Program offer?

This program helps educate and qualify individuals involved in optimizing the use of energy in buildings and systems. By obtaining the CEM certification, candidates gain industry and peer recognition by demonstrating their understanding of energy-efficiency principles, practices, and technologies. The program raises the professional standards, both technical and ethical, of those engaged in energy efficiency and energy management.

What is the bottom line for me or my company?

Gaining a wide-reaching and industry-recognized certification is always a personal and financial investment. Since its inception in 1981, the CEM certification program has demonstrated its validity year after year. Individuals tell us a CEM certification has helped improve their career, improve their salary, and increase their job responsibility. Holding a CEM certification shows a fundamental understanding of the industry and a commitment to their profession. Companies, organizations, and consultants with a CEM on-staff often see a higher affinity with their customers because CEMs understand their customer's requirements, speak the language of energy efficiency, and are a trusted, unbiased source for accurate information.

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AEE Certified Energy Manager (CEM) Sample Questions (Q122-Q127):

NEW QUESTION # 122

Which of the following steam turbines will likely not provide steam output at a useable temperature for industrial processes?

- A. Condensing turbine
- B. Back-pressure turbine
- C. Extraction turbine
- D. Answers A and B

Answer: A

NEW QUESTION # 123

Which of the following statements regarding refrigerants is NOT correct?

SELECT THE CORRECT ANSWER

- A. R-1234yf is a Hydro Fluoro Olefin with zero ozone depleting potential, and little global warming potential
- B. R-22 is a Hydro Chloro Carbon with significant ozone depleting potential and significant global warming impact
- C. R-407C is a blended Hydro Fluoro Carbon or near Azeotropic mixture, and can be used as a replacement for R-22 in commercial applications
- D. R-32 and R-134a are Hydro Fluoro Carbons with zero ozone depleting potential, and significant global warming impact
- E. R-11 and R-12 are Chloro Fluoro Carbons with significant ozone depleting potential

Answer: B

Explanation:

Understanding the environmental impacts of various refrigerants is crucial for energy managers. Let's analyze each statement:
A). R-407C is a blended Hydro Fluoro Carbon or near Azeotropic mixture, and can be used as a replacement for R-22 in commercial applications:

This statement is correct. R-407C is a blend of HFCs designed to replace R-22 in air conditioning systems.

B). R-11 and R-12 are Chloro Fluoro Carbons with significant ozone depleting potential:

This is correct. R-11 and R-12 are CFCs known for their high ozone depletion potential.

C). R-1234yf is a Hydro Fluoro Olefin with zero ozone depleting potential, and little global warming potential:

Correct. R-1234yf is an HFO with negligible ozone depletion and low global warming potential.

D). R-22 is a Hydro Chloro Carbon with significant ozone depleting potential and significant global warming impact:

This statement is incorrect. R-22 is a Hydrochlorofluorocarbon (HCFC), not a Hydro Chloro Carbon. While it does have ozone-depleting potential, its global warming potential is considered moderate, not significant.

E). R-32 and R-134a are Hydro Fluoro Carbons with zero ozone depleting potential, and significant global warming impact:

This is correct. Both R-32 and R-134a are HFCs with no ozone depletion potential but have considerable global warming potential.

Conclusion:

The incorrect statement is D. R-22 is a Hydro Chloro Carbon with significant ozone depleting potential and significant global warming impact. Therefore, the correct answer is D.

NEW QUESTION # 124

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

- E. \$28,900/yr

Answer: B

NEW QUESTION # 125

Using a degree-day base of 18°C, calculate the number of cooling degree days (CDD) if the outside temperature is a uniform 25°C throughout the year (365 days/year).

- A. 2,975 CDD/yr
- B. 2,555 CDD/yr
- C. 1,845 CDD/yr
- D. 1,955 CDD/yr
- E. 2,250 CDD/yr

Answer: A

NEW QUESTION # 126

Which motor parameter is the most difficult to determine accurately?

SELECT THE CORRECT ANSWER

- A. Operating load factor using slip calculations
- B. Output power capacity
- C. Operating (rotating) speed
- D. Input power

Answer: A

NEW QUESTION # 127

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