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It is the dream of every certification candidate to crack the Certified Energy Manager (CEM) CEM examination on the first sitting. Success in the Certified Energy Manager (CEM) CEM exam brings multiple career benefits. You become eligible for high-paying jobs and promotions in your current firm after earning the Certified Energy Manager (CEM) CEM Certification. Since the Certified Energy Manager (CEM) CEM exam registration fee is hefty, therefore, you will not want to fail the CEM Exam and pay this fee for the second time.

AEE Certified Energy Manager (CEM) Sample Questions (Q115-Q120):

NEW QUESTION # 115

How much fuel is required to heat 50 kg water from 20°C water to 200°C saturated steam? Assume the boiler is 80% efficient (based on the higher-heating value of the fuel).

- A. 127.2 MJ
- B. 210.5 MJ
- C. 511.2 MJ
- D. 169.3 MJ

Answer: D

NEW QUESTION # 116

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% Mot 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. \$32,668/yr
- B. \$52,222/yr
- C. \$58,300/yr
- D. \$28,900/yr
- E. \$43,776/yr

Answer: E

NEW QUESTION # 117

When should commissioning be included in the design and construction of a facility?

- A. When construction is finalized
- B. When the planning process begins
- C. When the design is finalized
- D. When the occupancy permit is accepted
- E. When installation of the energy systems begins

Answer: B

Explanation:

1) CEM Definition and Timing of Commissioning

The AEE Certified Energy Manager (CEM) Body of Knowledge aligns with ASHRAE Guideline 0 and states that commissioning is most effective when it begins at the earliest project phase. This includes:

* Development of the Owner's Project Requirements (OPR)

* Early design reviews

* Establishing performance and energy goals

Early inclusion avoids design errors, reduces rework, and ensures energy systems are optimized from the outset.

2) Evaluation of Options

* A. When the planning process begins #

* Correct per CEM: commissioning is a process, not an event.

* B. When the design is finalized #

* Too late to influence major design decisions.

* C. When installation begins #

* Misses design-phase benefits.

* D. When construction is finalized #

* Limits commissioning to startup only.

* E. When the occupancy permit is accepted #

* Post-occupancy is too late for effective commissioning.

NEW QUESTION # 118

A three phase, 380.volt system has the following voltage measurements:

$V_a = 375$ volts

$V_b = 380$ volts

$V_c = 391$ volts

Calculate the percent voltage imbalance.

SELECT THE CORRECT ANSWER

- A. 6.2%
- **B. 2.4%**
- C. 5.5%
- D. 3.4%
- E. 1.1%

Answer: B

NEW QUESTION # 119

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

Answer: D

Explanation:

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

The Net Present Value (NPV) formula is:

$$NPV = \sum \frac{(S - M)}{(1 + i)^t} - C_0$$

Where:

- $S = 160,000$ (Annual Energy Savings)
- $M = 25,000$ (Annual Maintenance Costs)
- $C_0 = 540,000$ (Initial Investment)
- $n = 10$ (Project Life)
- $i = 10\%$ (Discount Rate)
- $P/A, 10\%, 10 = 6.145$ (Uniform Present Worth Factor)

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Step 1: Compute Present Worth of Net Savings

$$\text{Net Annual Savings} = 160,000 - 25,000 = 135,000$$

$$\text{Present Worth} = 135,000 \times 6.145 = 829,575$$

Step 2: Compute NPV

$$NPV = 829,575 - 540,000 = 289,575$$

Thus, the correct answer is B. \$289,575.

NEW QUESTION # 120

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