

CEM Exam Demo & Valid Exam CEM Blueprint

CEM FINAL EXAM QUESTIONS AND ANSWERS WITH SOLUTIONS 2024

Phases in a Project Cycle - ANSWER Need, Programming, Schematic Design, Detailed Design, Construction Documents, Bid, Construction, Operation & Maintenance, Decommission

Sectors of the Construction Industry - ANSWER Industrial, Heavy civil, Building, Residential

Industrial Construction - ANSWER 5-10% ex: gasoline

Heavy Construction - ANSWER 20-25% ex: roads, I-85

Building Construction - ANSWER 35-40% ex: hospitals, schools

Residential Construction - ANSWER 30-30% ex: apartment, house, farm

Major Players in Construction - ANSWER Owners & Developers, Designers, Builders, Consultants

Construction Management - ANSWER Money, Materials, Machines and Manpower

LEED - ANSWER Leadership in Energy & Environmental Design.

Principles: Choose a sustainable site, maximize water efficiency, save energy, make smart material & resource decisions and improve indoor air quality.

Level of Influence vs Cost Curves - ANSWER Influence of cost is greater at the beginning of the construction process and decreases over time while cost increases over time.

What happened in the Hyatt collapse? - ANSWER Under-designed Box-Beam did not meet building codes, constructability changes did not account for design intent and doubled load on an under-designed box-beam, poor coordination/communication

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AEE Certified Energy Manager (CEM) Sample Questions (Q128-Q133):

NEW QUESTION # 128

Calculate the monthly electric bill for a customer that used 400 kW and 75,000 kWh during one month. Use the following declining block structure for a monthly bill:

Customer charge	\$50/month
Peak demand charge	\$10/kW-month
Electric consumption charge:	
First 25,000 kWh	\$0.06/kWh
All in excess of 25,000 kWh	\$0.05/kWh
Tax = 20% of total	

SELECT THE CORRECT ANSWER

- A. \$4, 580
- B. \$12,500
- C. \$9,660
- D. \$3,280
- E. \$7,850

Answer: C

Explanation:

We need to calculate the monthly electric bill based on the given pricing structure.

Step 1: Identify Charges from the Table

* Customer charge:\$50/month

* Peak demand charge:\$10/kW-month

* Electric consumption charges:

* First25,000 kWh@\$0.06/kWh

* Excess(75,000 - 25,000) = 50,000 kWh@\$0.05/kWh

* Tax:20% of total

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

Step 2: Calculate Fixed and Demand Charges

- Customer charge: \$50
- Peak demand charge:
 $400 \text{ kW} \times 10 = 4,000 \text{ USD}$

Step 3: Calculate Energy Charges

- First 25,000 kWh:
 $25,000 \times 0.06 = 1,500 \text{ USD}$
- Next 50,000 kWh:
 $50,000 \times 0.05 = 2,500 \text{ USD}$

Step 4: Calculate Subtotal Before Tax

$$50 + 4,000 + 1,500 + 2,500 = 8,050 \text{ USD}$$

Step 5: Calculate Tax (20%)

$$8,050 \times 0.20 = 1,610 \text{ USD}$$

Step 6: Final Total Bill

$$8,050 + 1,610 = 9,660 \text{ USD}$$

Thus, the correct answer is D. \$9,660.

NEW QUESTION # 129

In a warehouse, lights are mounted 4 meters above the floor. This provides an average light level of 150 lux.

To increase the light level without installing more lights or higher Wattage lights, you lower the light fixtures with pendants so that the lights are located 3.25 meters above the floor. Calculate the new average light level on the floor.

- A. 150 lux
- B. 276 lux
- C. 166 lux
- D. 227 lux
- E. 176 lux

Answer: D

NEW QUESTION # 130

Which of the following is NOT a typical benefit of performance contracting from the building owner's perspective?

- A. Performance contracting is a simple and quick process
- B. Net cash flow can be neutral or positive for the owner
- C. The energy-service company can have a financial incentive to achieve projected savings
- D. Maintenance services provided by the performance contractor can add value to the overall savings achieved
- E. Performance contracting can provide access to external financing when the owner may not have sufficient equity for in-house financing for large projects

Answer: A

NEW QUESTION # 131

What type of heat transfer is reduced by adding insulation to the inside surface of a wall?

- A. Conduction

- B. Radiation
- C. Convection

Answer: A

NEW QUESTION # 132

Which pump system listed below is most likely the best application for converting to variable-speed drive for energy savings?

SELECT THE CORRECT ANSWER

- A. Positive displacement rotary lobe pumps in parallel, in a constant flow rebar quenching application with a static head of 80 m and negligible friction head
- B. Reciprocating pump with on-off control, transferring liquid vertically for one hour per day
- **C. Centrifugal pump varying its flowrate with bypass control, circulating liquid in a closed loop cooling system**
- D. Piston pump operating at full capacity with throttle valve fully open, transferring liquid from an underground dam to the roof of a building

Answer: C

NEW QUESTION # 133

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