

CEM Latest Exam Experience - Interactive CEM Questions

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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Pass Guaranteed Quiz Perfect CEM - Certified Energy Manager (CEM) Latest Exam Experience

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AEE Certified Energy Manager (CEM) Sample Questions (Q16-Q21):

NEW QUESTION # 16

A 25-kW motor, at full load, drives a centrifugal fan that produces 160,000 liters per second (l/s) of ventilation air. If the fan speed is reduced to a flow rate of 150,000 l/s, what is the new load on the motor?

- A. 20.6 kW
- B. 25.0 kW
- C. 24.2 kW
- D. 15.2 kW**
- E. 30.3 kW

Answer: D

NEW QUESTION # 17

A facility has the thermal cooling load profile shown in the table below. The utility rate tariff has an on-peak time-of-use billing period that begins at 10:00 a.m. and ends at 7:00 p.m. Calculate the storage capacity required for a load-shifting operating strategy, to make sure that no thermal cooling is generated by the chiller during the on-peak utility rate period.

Time of Day	Facility Design Cooling Load	Time of Day	Facility Design Cooling Load
Midnight to 1:00 a.m.	2 GJ	Noon to 1:00 p.m.	8 GJ
1:00 a.m. to 2:00 a.m.	2 GJ	1:00 p.m. to 2:00 p.m.	9 GJ
2:00 a.m. to 3:00 a.m.	2 GJ	2:00 p.m. to 3:00 p.m.	9 GJ
3:00 a.m. to 4:00 a.m.	2 GJ	3:00 p.m. to 4:00 p.m.	9 GJ
4:00 a.m. to 5:00 a.m.	2 GJ	4:00 p.m. to 5:00 p.m.	9 GJ
5:00 a.m. to 6:00 a.m.	2 GJ	5:00 p.m. to 6:00 p.m.	8 GJ
6:00 a.m. to 7:00 a.m.	4 GJ	6:00 p.m. to 7:00 p.m.	6 GJ
7:00 a.m. to 8:00 a.m.	4 GJ	7:00 p.m. to 8:00 p.m.	6 GJ
8:00 a.m. to 9:00 a.m.	4 GJ	8:00 p.m. to 9:00 p.m.	4 GJ
9:00 a.m. to 10:00 a.m.	6 GJ	9:00 p.m. to 10:00 p.m.	4 GJ
10:00 a.m. to 11:00 a.m.	6 GJ	10:00 p.m. to 11:00 p.m.	2 GJ
11:00 a.m. to Noon	8 GJ	11:00 p.m. to Midnight	2 GJ

- A. 84 GJ
- B. 66 GJ**
- C. 48 GJ
- D. 72 GJ

Answer: B

NEW QUESTION # 18

What is the Energy Use index (EUI) for a 4,000 m² building that uses the following amounts of energy each year?

Natural gas	1500 GJ/yr
Fuel oil (39 000 kJ/liter)	19,000 liters/yr
Electricity	300,000 kWh/yr

- A. 1,612,000 kJ/m²-yr
- B. 625,600 kJ/m²-yr**
- C. 403,311 kJ/m²-yr
- D. 855,250 kJ/m²-yr
- E. 3,220,800 kg/m²-yr

Answer: B

Explanation:

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

The Energy Use Index (EUI) is calculated as the total annual energy consumption divided by the building area.

Step 1: Convert Energy Units to kJ

- Natural gas:

$$1,600 \text{ GJ} = 1,600 \times 10^6 = 1,600,000,000 \text{ kJ}$$

- Fuel oil:

$$19,000 \text{ liters} \times 39,000 \text{ kJ/liter} = 741,000,000 \text{ kJ}$$

- Electricity:

$$1 \text{ kWh} = 3,600 \text{ kJ}$$

$$300,000 \text{ kWh} \times 3,600 = 1,080,000,000 \text{ kJ}$$

Step 2: Calculate Total Energy Use

$$1,600,000,000 + 741,000,000 + 1,080,000,000 = 3,421,000,000 \text{ kJ}$$

Step 3: Calculate EUI

$$\text{EUI} = \frac{3,421,000,000}{4,000} \\ = 625,600 \text{ kJ/m}^2\text{-yr}$$

Thus, the correct answer is B. 625,600 kJ/m²-yr.

NEW QUESTION # 19

What is a common method to reduce the impact of voltage imbalance?

- A. Install harmonic filters
- **B. Rebalance single-phase loads**
- C. Install capacitors to improve power factor on three-phase loads
- D. Reverse phase connections on three-phase motors

Answer: B

NEW QUESTION # 20

You can buy air compressor A for \$15,000 or air compressor B for \$6,000. Compressor A will cost \$10,000 per year to operate. Compressor B will cost \$11,500 per year to operate. If both air compressors have a 10- year life and your required return on investment is 12%, which air compressor has the lowest total life-cycle cost?

- A. Compressor A
- **B. Compressor B**
- C. Both air compressors have the same life-cycle cost

Answer: B

NEW QUESTION # 21

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