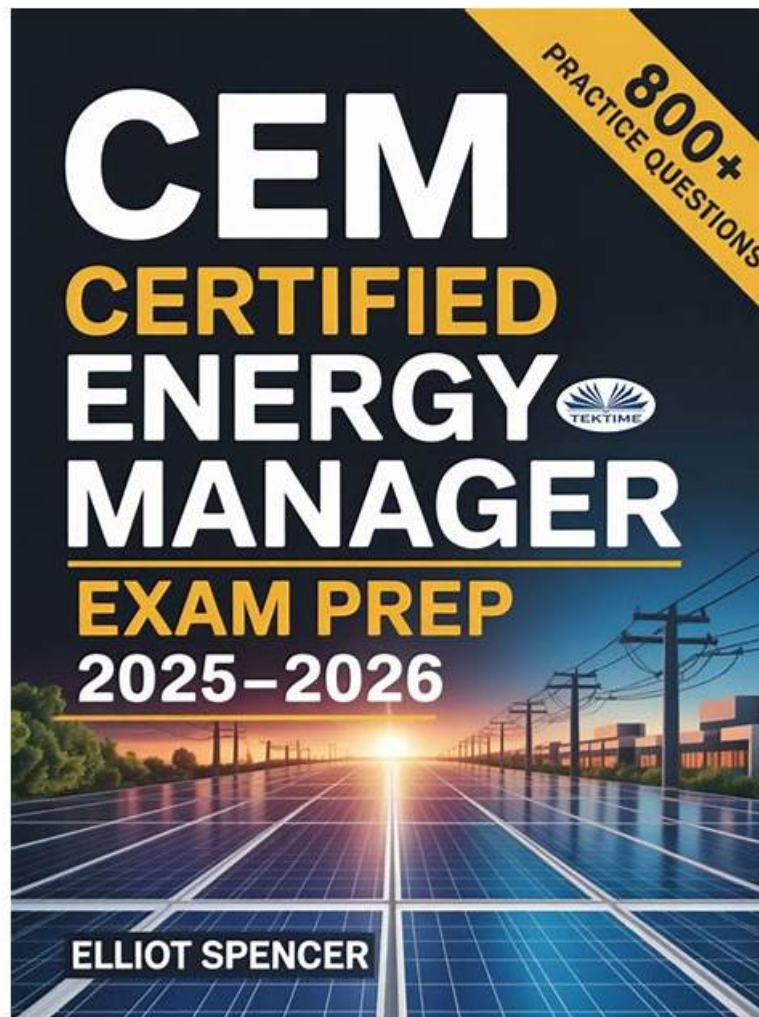


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Renewable Energy Technologies	8-12%	- Solar thermal systems - Wind energy systems - Geothermal systems - Solar photovoltaic systems - Energy storage technologies - Biomass and bioenergy
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AEE Certified Energy Manager (CEM) Sample Questions (Q134-Q139):

NEW QUESTION # 134

What type of heat exchanger is commonly built into AHU's or large RTU's, can be used to recover heat from exhaust air, and may cause cross-contamination between heat exchange fluids?

Select the Correct Answer

- A. Dessiccant heat wheel
- B. Heat pipe
- C. Plate and frame
- D. Heat pump
- E. Run-around coil

Answer: A

NEW QUESTION # 135

A cooling tower delivers 29°C water to a central chilled water plant. The cooling tower is capable of delivering water to the chilled-water plant with a 6°C approach temperature to the ambient wet bulb temperature. Using this information, what type of control strategy would you recommend be added to the cooling tower operation to save additional energy?

- A. Condenser-water temperature reset
- B. Chilled-water temperature reset
- C. Chiller demand limiting
- D. Static-pressure reset

Answer: A

NEW QUESTION # 136

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

Answer: B

NEW QUESTION # 137

Thermal scans of electrical equipment are useful for:

- A. Locating areas of high power factor
- B. Measuring the load on a refrigerant system
- C. Reading current carrying capacity of installed conductors
- D. Locating a loose electrical connection

Answer: D

Explanation:

Step 1: Purpose of Thermal Scans

Thermal scans (infrared thermography) detect temperature variations in electrical components.

* Loose connections increase resistance & cause overheating, which is visible in thermal scans.

Step 2: Analysis of Each Option

* A. Locating areas of high power factor#Incorrect#Power factor is measured with power meters.

* B. Reading current-carrying capacity of conductors#Incorrect#Measured using ammeters and engineering data.

* C. Locating a loose electrical connection#Correct#Loose connections cause heat buildup, easily detected with thermal scans.

* D. Measuring the load on a refrigerant system#Incorrect#Refrigerant loads are measured using pressure sensors and flow meters.

Thus, the correct answer is C. Locating a loose electrical connection.

NEW QUESTION # 138

A fully-loaded heat pump unit delivers 36-kW thermal heating with a power draw of 12-kW electric. What is the coefficient of performance (COP) at full load?

- A. 2.0
- B. 5.0
- C. 6.0
- **D. 3.0**
- E. 4.0

Answer: D

NEW QUESTION # 139

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