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CERTIFIED EMERGENCY MANAGER CEM FINAL EXAM PREP 2025/2026 ACCURATE QUESTIONS WITH CORRECT DETAILED ANSWERS || 100% GUARANTEED PASS <RECENT VERSION>

1. Emergency - ANSWER ✓ Event that can usually be handled by existing resources, particularly by first responders (fire, police, ambulance) but does not require activation of an EOC or disrupt the community.

2. Disaster - ANSWER ✓ Event that disrupts community functioning and requires resources beyond those used for routine emergencies (e.g., ambulances)

3. Catastrophe - ANSWER ✓ Event that disrupts regional capacities to respond to those affected and requires resources outside the are for an extended time.

4. Emergent Norm Theory - ANSWER ✓ Sociological perspective describing how people respond and adapt to the dynamic conditions fostered by a disaster environment; evolution of new individual, group, and organizational behavioral guidelines.

5. Systems Theory - ANSWER ✓ Perspective focused on the interaction of the built, physical, and human environments.

6. Hazard Identification - ANSWER ✓ Identifying the history, frequency, and location of specific hazards and how they may impact a given location.

7. Risk Analysis - ANSWER ✓ Calculating the potential for an impact and the associated losses based on findings of a hazard identification

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AEE Certified Energy Manager (CEM) Sample Questions (Q124-Q129):

NEW QUESTION # 124
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. 4.0
- B. 5.0
- C. 6.0
- D. 2.0
- E. 3.0

Answer: A

NEW QUESTION # 125
A facility has the thermal cooling load profile shown in the table below. The utility rate traffic has an no-peak time-of-use period that begins at 10:00 a.m ends at 7:00 p.m. What chiller capacity (output) is required for a load-leveling operating strategy?

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

[Question from the previous image, which was about chiller capacity for load leveling, but the table was missing]

- A. 7.0 GJ/h
- B. 8.0 GJ/h
- C. 4.0 GJ/h
- D. 5.0 GJ/h

Answer: B

NEW QUESTION # 126
Which of the following best describes a thermally-light building?

- A. A building filled with manufacturing and process equipment
- B. A single-story office building where the load on the heating and cooling system is proportional to the outside air (ambient) temperature
- C. A computer data center housing multiple internet server racks
- D. An underground storage facility

Answer: B

NEW QUESTION # 127

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

Answer: C

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)

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 # 128

A facility has the thermal cooling load profile shown in the table below. The utility rate traffic has an no-peak time-of-use period that begins at 10:00 a.m ends at 7:00 p.m. What chiller capacity (output) is required for a load-leveling operating strategy?

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

[Question from the previous image, which was about chiller capacity for load leveling, but the table was missing]

- A. 7.0 GJ/h
- B. 4.0 GJ/h
- C. 5.0 GJ/h
- D. 8.0 GJ/h

Answer: C

Explanation:
Comprehensive Detailed Step by Step Explanation with all AEE Energy Manager (CEM) References
* Interpret the load profile (hourly cooling energy):The table gives the facility cooling load in GJ per hour interval (so numerically it's an hourly rate for each hour).
* Compute the total daily cooling energy (sum of 24 hourly loads):
* 12:00 a.m.-6:00 a.m.: 6 hr × 2 = 12 GJ
* 6:00-7:00 a.m.: 4 # 16 GJ
* 7:00-8:00 a.m.: 4 # 20 GJ
* 8:00-9:00 a.m.: 4 # 24 GJ
* 9:00-10:00 a.m.: 6 # 30 GJ
* 10:00-11:00 a.m.: 6 # 36 GJ
* 11:00 a.m.-12:00 p.m.: 8 # 44 GJ
* 12:00-1:00 p.m.: 8 # 52 GJ
* 1:00-2:00 p.m.: 9 # 61 GJ
* 2:00-3:00 p.m.: 9 # 70 GJ
* 3:00-4:00 p.m.: 9 # 79 GJ
* 4:00-5:00 p.m.: 9 # 88 GJ
* 5:00-6:00 p.m.: 8 # 96 GJ
* 6:00-7:00 p.m.: 6 # 102 GJ
* 7:00-8:00 p.m.: 6 # 108 GJ
* 8:00-9:00 p.m.: 4 # 112 GJ
* 9:00-10:00 p.m.: 4 # 116 GJ
* 10:00-11:00 p.m.: 2 # 118 GJ
* 11:00 p.m.-12:00 a.m.: 2 # 120 GJ total per day
So, Total daily cooling energy = 120 GJ.
* Apply the CEM "load-leveling" operating strategy sizing rule:In the AEE CEM Thermal Storage training material, Load Leveling is described as operating the chiller at a constant (or near constant) load for 24 hours per day, and the "load leveling chiller load calculations" are based on Total energy
/ Hours available to operate chillers-for load leveling, that operating window is 24 hours. portal.
aeecenter.org
Therefore:
* Why the "no-peak 10 a.m.-7 p.m." detail doesn't change the load-leveling answer:That time window is typically used when a strategy restricts chiller operation to certain hours (e.g., full load shifting). But load leveling, per the CEM training description, is the strategy where the chiller runs all day at (near) constant load, using storage to absorb the difference between constant production and variable building load

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