

Quiz Marvelous AEE Free Sample CEM Questions

APPENDIX B SAMPLE CEM QUESTIONS

FYI: Appendix C has the solutions, but please do not just study the key with explanations... it much more advisable to understand how to solve these problems. We recommend the following:

1. Get the right attitude – "I'm in it to win it" – a positive perspective will help!
2. Each evening you should devote between 90 – 120 minutes to reviewing the workbook, making notes or equation sheets, and solving problems.
 - Ensure you know how to use your calculator efficiently.
3. Practice your "pace"... solve these problems in this section in 5 to 10 question blocks, so you learn the timing needed. *Looking at the solution key after each question will prevent you from learning the pace needed.*
4. Some practice problems may have multiple "learning objectives"... so they may be more difficult than the actual CEM Exam problems.
5. If you have questions - see your instructor immediately (DO NOT wait until Thursday or Friday morning to get help – get it early when you need it !!!!!!!)

These questions are organized by Section similar to the CEM exam.

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AEE Certified Energy Manager (CEM) Sample Questions (Q96-Q101):

NEW QUESTION # 96

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

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

Answer: C

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 # 97

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

Answer: A

NEW QUESTION # 98

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

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

Answer: E

NEW QUESTION # 99

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

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

Answer: C

NEW QUESTION # 100

A high-pressure steam system passes 180°C condensate (saturated liquid) through a steam trap to an atmospherically vented condensate receiver tank. If the steam trap is working properly, how much of the condensate mass can be lost out the vent of the receiver tank in the form of flash steam?

- A. 6%
- B. 66%
- C. 15%
- D. 25%
- E. 100%

Answer: C

NEW QUESTION # 101

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