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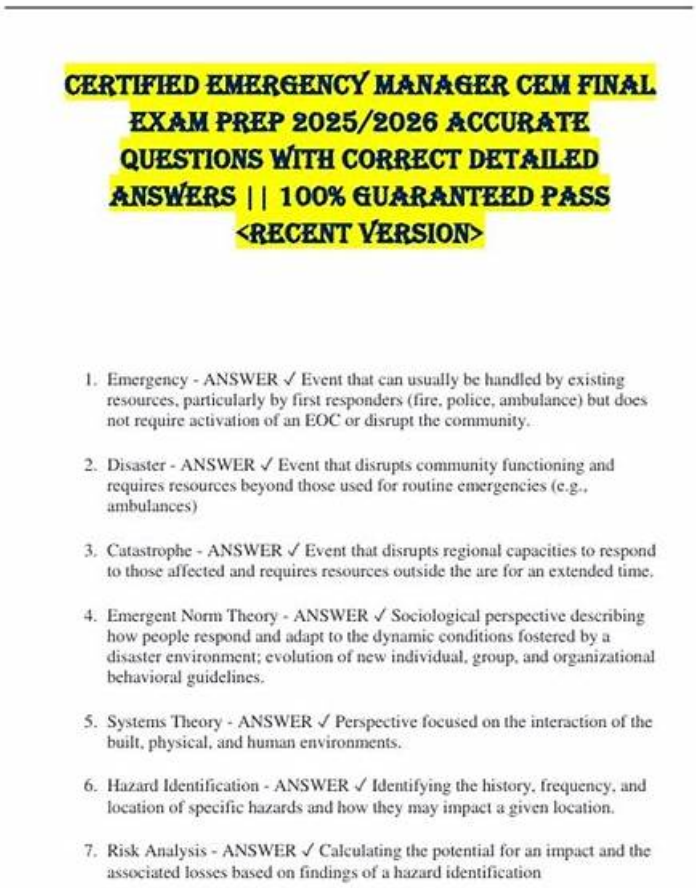
CERTIFIED EMERGENCY MANAGER CEM FINAL EXAM PREP 2025/2026 ACCURATE QUESTIONS WITH CORRECT DETAILED ANSWERS || 100% GUARANTEED PASS <RECENT VERSION>

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 CEM Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Building Envelope	8-12%	- Thermal envelope analysis - Windows and glazing systems - Insulation types and R-values - Daylighting and shading - Air leakage and infiltration

Topic 2: Energy Accounting and Economics	10-15%	- Life cycle cost analysis (LCCA) - Utility rate structures and tariffs - Energy price forecasting - Financial analysis techniques (ROI, NPV, IRR) - Energy cost accounting and allocation
Topic 3: Heating, Ventilating, and Air Conditioning (HVAC)	12-18%	- Psychrometrics - Equipment efficiency ratings - Controls and optimization - Load calculations - HVAC system types and components - Indoor air quality - Heat transfer principles
Topic 4: Electric Power Systems	10-15%	- Power factor correction - Lighting systems and controls - Harmonics and power quality - Power distribution systems - Standby power systems - Motors and drives
Topic 5: Energy Project Implementation	8-12%	- Project risk management - Implementation strategies - Measurement and verification (M&V) - Project financing models - Performance contracting (ESPC) - Energy service companies (ESCOs)
Topic 6: Renewable Energy Technologies	8-12%	- Energy storage technologies - Solar photovoltaic systems - Solar thermal systems - Geothermal systems - Wind energy systems - Biomass and bioenergy
Topic 7: Facilities Management	8-12%	- Commissioning and re-commissioning - Building automation systems (BAS) - Monitoring and targeting (M&T) - Preventive maintenance programs - Operations and maintenance best practices
Topic 8: Environmental and Regulatory Compliance	5-10%	- Energy reporting requirements - Green building standards (LEED, ENERGY STAR) - EPA regulations (Clean Air Act, Clean Water Act) - Carbon footprint calculation - Sustainability reporting
Topic 9: Energy Auditing	15-20%	- Audit report writing - Metering and measurement equipment - Audit procedures and methodologies - Baseline establishment - Data collection and analysis - Types of energy audits (preliminary, detailed, investment-grade)

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AEE Certified Energy Manager (CEM) Sample Questions (Q69-Q74):

NEW QUESTION # 69
According to ISO 50001. when performing internal audits on the energy management system in an organization the internal auditor should do which of the following?
SELECT THE CORRECT ANSWER

- A. Look for opportunities for energy improvement and to minimize bureaucracy inthe energy management system
- B. Assess actual activities as practiced against what the written procedures state
- C. All of the above
- D. Focus on the areas of significant energy use
- E. Review the written procedures related to the area under audit

Answer: C

Explanation:
When conducting internal audits of an Energy Management System (EnMS) in accordance with ISO 50001, auditors are expected to perform several key activities to ensure the system's effectiveness and continual improvement. These activities include:
* Focus on Areas of Significant Energy Use:Auditors should prioritize auditing areas that have substantial energy consumption, as improvements in these areas can lead to significant energy performance enhancements.
* Review Written Procedures Related to the Area Under Audit:A thorough examination of documented procedures ensures that they align with ISO 50001 requirements and organizational practices. This review helps in identifying any discrepancies between documented procedures and actual practices.
* Assess Actual Activities Against Written Procedures:Auditors compare on-ground activities with documented procedures to verify compliance and identify deviations. This assessment ensures that operations are performed as intended and in line with established protocols.
* Look for Opportunities for Energy Improvement and Minimize Bureaucracy:Identifying opportunities for enhancing energy performance is a core objective of the audit.Auditors should also aim to streamline the EnMS by reducing unnecessary complexities, thereby making it more efficient and user-friendly.
By encompassing all these activities, internal auditors ensure a comprehensive evaluation of the EnMS, leading to effective energy management and continual improvement. Therefore, the correct answer is E. All of the above.

NEW QUESTION # 70
When should commissioning be included in the design and construction of a facility?

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

Answer: C

NEW QUESTION # 71
The temperature in an unconditioned mechanical room is found to typically be around 23°C warmer than ambient (outside) air. If the air intake of an air compressor located in the mechanical room is routed through a nearby wall so that the cooler outside air is fed directly to the air compressor's intake, the compressor's energy requirement will now be expected to:
SELECT THE CORRECT ANSWER

- A. Remain the same
- B. Decrease by 3.8%
- C. Decrease by 7.6%
- D. Increase by 3.8%
- E. Increase by 7.6%

Answer: B

NEW QUESTION # 72
How much energy (kJ) is required to heat 2 kg of water from 25°C to 2 kg of water at 100°C? (The specific heat of water (C) is 4.2 kJ/kg-°C. Assume no system losses.)

- A. 510 kJ
- B. 420 kJ
- C. 840 kJ
- D. 630 kJ

Answer: D

NEW QUESTION # 73
Which of the following is NOT a renewable-energy resource?
SELECT THE CORRECT ANSWER

- A. Crop residue
- B. Ocean waves
- C. Saw grass
- D. Geothermal heat
- E. Shale gas

Answer: E

Explanation:
Renewable energy resources are naturally replenished on a human timescale. Let's evaluate each option:
A:Saw grass:A biomass resource, renewable through regrowth.
B:Shale gas:A fossil fuel extracted from shale formations, non-renewable.
C:Geothermal heat:Energy from Earth's internal heat, renewable.
D:Ocean waves:Mechanical energy from ocean surface waves, renewable.
E:Crop residue:Organic materials from agriculture, renewable.
Conclusion:
Shale gas is not a renewable energy resource. Therefore, the correct answer is B.

NEW QUESTION # 74
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