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## AEE Certified Energy Manager (CEM) Sample Questions (Q66-Q71):

### NEW QUESTION # 66

Thermal scans of electrical equipment are useful for:

- A. Measuring the load on a refrigerant system
- B. Locating areas of high power factor
- 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 # 67**

Which motor parameter is the most difficult to measure with precision?

- A. Operating (rotating) speed
- B. Alternating current (AC) frequency
- **C. Operating load factor**
- D. Output power capacity
- E. Input power

**Answer: C**

**NEW QUESTION # 68**

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

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

**Answer: A**

**NEW QUESTION # 69**

A cooling tower is delivering water to a chilled-water plant. The cooling tower outlet temperature has a 6°C approach temperature to the ambient air, wet-bulb temperature. The outside air conditions are 20°C dry bulb, 60% relative humidity. Using the psychrometric chart, at what temperature can the cooling tower deliver water to the chilled-water plant?

- A. 25°C
- B. 13°C
- C. 21°C
- **D. 17°C**

**Answer: D**

**NEW QUESTION # 70**

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. 630 kJ**
- C. 420 kJ
- D. 840 kJ

**Answer: B**

**NEW QUESTION # 71**

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