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## **AEE Certified Energy Manager (CEM) Sample Questions (Q143-Q148):**

### NEW QUESTION # 143

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

**Answer: D**

### NEW QUESTION # 144

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

**Answer: C**

Explanation:

### NEW QUESTION # 145

What is the main reason for using instrumentation in energy audits?

- A. Save energy
- B. Support the local economy
- C. Validate utility energy bills
- **D. Determine energy flows**

**Answer: D**

Explanation:

Instrumentation in energy audits serves multiple functions, but the primary reason is to determine energy flows.

\* Measuring Energy Flows:

\* Instrumentation helps quantify energy use in different systems, such as electricity, HVAC, and industrial processes.

\* It helps identify where energy is used, lost, or wasted.

\* Supporting Energy Conservation Efforts:

\* By measuring energy flows, auditors can identify inefficiencies and recommend solutions.

\* Other Options Analysis:

\* Saving energy (A): A result of energy audits, not the main purpose.

\* Validating utility bills (C): Important but secondary to understanding energy flows.

\* Supporting the local economy (D): Not relevant.

Thus, the correct answer is B. Determine energy flows.

### NEW QUESTION # 146

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

**Answer: B**

**NEW QUESTION # 147**

Thermal scans of electrical equipment are useful for:

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

**Answer: C**

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 # 148**

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