

A graphic with the words "pop" and "quiz" in blue lowercase letters. The word "pop" is on the top line and "quiz" is on the bottom line. A large green question mark is positioned to the right of "pop", overlapping the space between "pop" and "quiz".

pop  
quiz

Questions from June 2

# LEED AP O+M TRAINING



June 2, 2009

Session 3 of 5

Presented by: CTG Energetics  
Celia Hammond & Lisa Stanley

# EA Question 1

Which of the following is **not** a requirement for EAp1 Energy Efficiency Best Management Practices – Planning, Documentation, and Opportunity Assessment?

- A. Maintain a record of existing systems documentation, manuals, and operating plans, as well as monthly utility bills.
- B. List operational issues and capital improvements, with estimated costs and anticipated savings, that will improve the building's energy performance and occupant's comfort.
- C. As necessary, review building system setpoint in conjunction with the building operating plan, systems narrative, and sequence of operations development.
- D. Implement a preventive maintenance plan that addresses all systems discussed in the building operating plan.

# EA Answer 1

Answer is B (it is for EAc2.1). See Reference Guide page 136 and 174.

- Which of the following is **not** a requirement for EAp1 Energy Efficiency Best Management Practices – Planning, Documentation, and Opportunity Assessment?
  - A. Maintain a record of existing systems documentation, manuals, and operating plans, as well as monthly utility bills.
  - B. **List operational issues and capital improvements, with estimated costs and anticipated savings, that will improve the building's energy performance and occupant's comfort.**
  - C. As necessary, review building system setpoint in conjunction with the building operating plan, systems narrative, and sequence of operations development.
  - D. Implement a preventive maintenance plan that addresses all systems discussed in the building operating plan.

## EA Question 2

- In order to comply with EAc3.1 Performance Measurement – Building Automation system have in place a computer-based building automation system (BAS) that monitors and controls, at a minimum, which of the following?

(Please pick the three best answers)

- A. Heating
- B. Lighting
- C. Refrigerants
- D. Cooling

## EA Answer2

- In order to comply with EAc3.1 Performance Measurement – Building Automation system have in place a computer-based building automation system (BAS) that monitors and controls, at a minimum, which of the following?

(Please pick the three best answers)

- A. **Heating**
- B. **Lighting**
- C. Refrigerants
- D. **Cooling**

Answer is A, B & D. See  
Reference Guide page 191.

## EA Question 3

- Which of the following defines the standards for Off-site renewable energy purchasing?
  - A. Green source center for Energy Solutions
  - B. Center for Responsible Green-e Energy Solutions
  - C. Energy-e Green Equivalent Solutions
  - D. Center for Resource Solutions Green-e Energy program's products certification requirements

## EA Answer 3

- Which of the following defines the standards for Off-site renewable energy purchasing?
  - A. Green Source Center for Energy Solutions
  - B. Center for Responsible Green-e Energy Solutions
  - C. Energy-e Green Equivalent Solutions
  - D. **Center for Resource Solutions Green-e Energy Program**

Answer is D. See Reference  
Guide page 191.

## EA Question 4

- Which of the following is not an acceptable form of On-site renewable energy system?
  - A. Low-impact hydroelectric power system
  - B. Solar thermal system
  - C. Passive solar strategy
  - D. Geothermal energy system

## EA Answer 4

- Which of the following is not an acceptable form of On-site renewable energy system?
  - A. Low-impact hydroelectric power system
  - B. Solar thermal system
  - C. **Passive solar strategy**
  - D. Geothermal energy system

Answer is C. See Reference  
Guide page 206.

## EA Question 5

- Which of the following group of refrigerants is being phased out by the Montreal Protocol in developed countries by 2030?
  - A. R-23, Propane, R-507A
  - B. R-11, R-22, R-12
  - C. R-134a, R-245fa, R-507A
  - D. R-1, R-9, r-91

## EA Answer 5

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  - A. R-23, Propane, R-507A
  - B. **R-11, R-22, R-12**
  - C. R-134a, R-245fa, R-507A
  - D. R-1, R-9, R-91

Answer is B. See Reference  
Guide page 217 and 219.

## WE Question 1

Greywater could be: (2 answers)

- A. Bathtubs, showers, bathroom wash basins
- B. Laundry sink, urinals, shower
- C. Lavatories, bathtubs, showers, clothes washer
- D. Sink, bathtub dishwasher

## WE Answer 1

Greywater could be: (2 answers)

- A. ***Bathtubs, showers, bathroom wash basins***
- B. Laundry sink, urinals, shower
- C. ***Lavatories, bathtubs, showers, clothes washer***
- D. Sink, bathtub dishwasher

Ref Guide page 91

## WE Question 2

When calculating baseline versus installed what referenced standards are used for indoor plumbing fittings and fixtures?

- A. US EPA Water Sense (WS), Universal Plumbing Code (UPC)
- B. Uniform Plumbing Code (UPC), International Plumbing Code (IPC)
- C. Terry Love's Consumer Toilet Report (CTR), Rocky Mountain Institute Water (RMI)
- D. Water Closet Performance Testing (WCPT), Water Sanitary and Waste Services for Bldgs (WSWS)

## WE Answer 2

When calculating baseline versus installed what referenced standards are used for indoor plumbing fittings and fixtures?

- A. US EPA Water Sense (WS), Universal Plumbing Code (UPC)
- B. *Uniform Plumbing Code (UPC), International Plumbing Code (IPC)***
- C. Terry Love's Consumer Toilet Report (CTR), Rocky Mountain Institute Water (RMI)
- D. Water Closet Performance Testing (WCPT), Water Sanitary and Waste Services for Bldgs (WSWS)

Ref Guide Pg 81-83

## WE Question 3

- Evapotranspiration (ET) is the amount of water: (1)
  - A. Lost through filtration into porous surface
  - B. Added to aquifers on a project site
  - C. Lost from a vegetated area by depth
  - D. Calculated from the graywater collection

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  - A. Lost through filtration into porous surface
  - B. Added to aquifers on a project site
  - C. ***Lost from a vegetated area by depth***
  - D. Calculated from the graywater collection

Ref Guide Pg 113

## WE Question 4

- How frequently do water sub-meter reading need to be taken? (1)
  - A. Daily
  - B. Weekly
  - C. Monthly
  - D. Quarterly

## WE Answer 4

- How frequently do water sub-meter reading need to be taken? (1)
  - A. Daily
  - B. **Weekly**
  - C. Monthly
  - D. Quarterly

Ref Guide Pg 94