

Why You Can Choose USGBC LEED-AP-O-M Exam Questions?

LEED AP O&M Practice Test questions and answers 2022/2023 with complete solution

A project team is assessing existing luminaires for Light Pollution Reduction and found some fixtures emit light at a vertical angle more than 90 degrees from straight down. What statement is true regarding the project's ability to earn the credit?

The team must retrofit or replace the non-compliant fixtures to earn the credit

An office building has six individual workstations, two private offices, and a conference room. What lighting control configuration would meet the requirements of EQ Credit Interior Lighting?

Individual lighting controls for four workstations and multizone control for the conference room.

There are 8 individual occupant spaces, so any combination that equals 50% of the individual spaces would count as meeting the requirements.

When occupancy data is entered into the indoor water use calculator, it is split by default to a 50/50 gender ratio. Under which circumstance should this be ratio changed?

A project can alter the default ratio if it is justified. Same-sex schools are one example.

What frequency of recording data is required during the performance period for WE Credit Water Metering?

All meters, including whole-building meter, must be recorded at least weekly and used in a regular analysis of time trends

Typical end uses for a commercial office building that may require advanced metering for EA Credit Advanced Energy Metering include all of the following except:

Projects must sub-meter all energy end uses that are at least 20% of the total building energy use excluding plug loads.

A project team has an existing building commissioning plan resulting from the analysis of the building. What can this document serve as the foundation of?

The Ongoing Commissioning credit can use existing building commissioning plan to create the ongoing commissioning plan.

A project team for an office building took daylight measurements in all regularly occupied spaces in the month of June. Which action must occur for the project to achieve Daylight Measurement for EQ Credit Daylight and Quality Views?

Two measurements must be taken for the option.

How frequently should occupant surveys be performed to achieve IEQ Credit Occupant Comfort Survey?

Perform at least one survey and implement corrective actions. At a minimum, perform one new survey at least once every 2 years.

As an alternative refrigerant to HCFC a project team is considering HFC-410A.

What is the trade-off to when using HFC-410A in the HVAC&R system?

It has a lower GWP but require more energy to achieve the same level of cooling.

Who should be included in the project team for SS Credit Site Improvement Plan?

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USGBC LEED-AP-O-M Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Energy and Atmosphere: This domain of the exam covers building loads and energy efficiency. A key measured skill is optimizing building orientation for energy conservation.
Topic 2	<ul style="list-style-type: none">Materials and Resources: This exam portion covers topics to test exam-takers in addressing life-cycle impacts and waste management. A key measured skill is evaluating material attributes for environmental impact.

Topic 3	<ul style="list-style-type: none"> Indoor Environmental Quality: This section measures the skills of the LEED Project Managers and focuses on indoor environmental quality management. A key measured skill is determining appropriate ventilation levels for spaces. The domain includes tobacco smoke control, indoor air quality improvements, and ongoing monitoring systems.
Topic 4	<ul style="list-style-type: none"> Water Efficiency: This section measures the skills of the target professionals and covers both outdoor and indoor water use reduction. A key measured skill is calculating irrigation demand for landscape requirements.
Topic 5	<ul style="list-style-type: none"> Sustainable Sites: This section measures the skills of the LEED Project Manager and focuses on on-site design and development strategies. A key measured skill is implementing effective habitat conservation and restoration techniques.

>> Exam LEED-AP-O-M Reference <<

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USGBC LEED AP Operations +Maintenance (LEED AP O+M) Sample Questions (Q35-Q40):

NEW QUESTION # 35

For Energy and Atmosphere Credit, Advanced Energy Metering, which individual end uses are required to be metered?

- A. Those that represent at least 15% of the total annual consumption of the building minus plug load use
- B. Those that represent at least 20% of the total annual consumption of the building minus plug load use
- C. Those that represent at least 25% of the total annual consumption of the building minus plug load use
- D. Those that represent at least 10% of the total annual consumption of the building minus plug load use

Answer: B

NEW QUESTION # 36

What percentage of individual occupant spaces must have individual lighting controls in projects seeking Option 1. Lighting Control in Indoor Environmental Quality Credit, Interior Lighting?

- A. 70%
- B. 50%
- C. 60%
- D. 40%

Answer: A

Explanation:

For projects seeking to comply with Option 1, Lighting Control of the Indoor Environmental Quality Credit for Interior Lighting, LEED guidelines specify that at least 70% of individual occupant spaces must have individual lighting controls. These controls allow occupants to adjust lighting to suit their task needs and preferences, contributing to energy savings and increased occupant comfort and productivity.

References:

* This requirement is outlined in the LEED for Building Operations and Maintenance (O+M) Reference Guide, under the Indoor Environmental Quality Credit for Interior Lighting. It is a well-known requirement discussed in LEED AP O+M training and

resources, promoting energy efficiency and occupant comfort in the interior environment.

NEW QUESTION # 37

Cooling tower blowdown is necessary because

- A. excess water treatment chemical levels corrode pipes and bleed-off reduces chemical levels
- **B. a buildup of dissolved solids increases conductivity which decreases efficiency**
- C. too much water in the system is inefficient so its water levels must be lowered
- D. cold temperatures can freeze pipes if water is not moved and bleed-off prevents that from happening

Answer: B

Explanation:

LEED v4.1 O+M Reference Guide, p.1132: LEED v4 - U.S.Green Building Council(<https://www.usgbc.org/guide/om>)3: What is Blowdown Loss in Cooling Towers? (<https://deltacooling.com/resources/faqs/what-is-blowdown-loss-in-cooling-towers>).

Cooling tower blowdown is a process used to manage water quality in cooling systems. It involves discharging a portion of the water from the system to control the concentration of dissolved solids and minerals, which accumulate due to the continuous evaporation of water. These dissolved solids can increase the water's conductivity, leading to scale formation, corrosion, and biofouling, all of which can significantly decrease the efficiency and lifespan of the cooling system. By performing blowdown, the system maintains the water quality within acceptable limits, ensuring optimal performance and energy efficiency of the cooling tower.

References:

* The need for cooling tower blowdown due to the accumulation of dissolved solids is discussed within the context of water management practices in cooling systems in the LEED AP O+M documentation.

This process is crucial for maintaining system efficiency and is covered under the Water Efficiency category, emphasizing the importance of water management in achieving sustainable building operations.

NEW QUESTION # 38

A 1,500 ft² (139 m²) mobile home is built in the downtown area of a major city. 90% of the project's gross floor will be completed by the time of occupancy. LEED certification is being sought. Which rating system would be the most appropriate one to use?

- A. No rating system
- B. LEED Building Design and Construction
- **C. LEED for Homes**
- D. LEED Interior Design and Construction

Answer: C

Explanation:

For a mobile home, especially one built in a major city, the most appropriate LEED rating system to use would be LEED for Homes. This is because ASHRAE 90.1 and associated LEED rating systems typically exclude low-rise residential buildings, which include single-family houses, multifamily structures of three stories or fewer above grade, and manufactured houses (modular or mobile homes). Since the mobile home in question falls under the category of manufactured houses, it would be more fitting to pursue LEED for Homes certification, which is designed to cater to residential projects. References: Information derived from the ASHRAE 90.1-2013 User's Manual indicates the exclusion of low-rise residential buildings, including manufactured houses, from the standard's scope.

NEW QUESTION # 39

Innovation credits for exemplary performance are awarded for

- A. demonstrating significant environmental benefits
- B. reaching 100% threshold
- **C. achieving the next incremental threshold**
- D. demonstrating a quantitative improvement in environmental performance

Answer: C

