

LEED-AP-BD-C Exam Questions And Answers & Exam LEED-AP-BD-C Duration

LEED v4 AP BD+C PRACTICE TEST #1 | 100 QUESTIONS| WITH CORRECT ANSWERS!!

A project's total site area is 280,000 SF (26,000 m²). The total previously developed area on site is 100,000 SF (9,290 m²). The building FAR is 1.7. How much financial support would an owner have to provide to earn SS credit Site Development - Protect or Restore Habitat?

- A) \$112,000
- B) \$72,000
- C) \$122,400
- D) \$40,000 Answer - A) \$112,000

Feedback:

This type of question will likely include additional, extraneous information to cause confusion. For Option 2 Financial Support, the requirement is as follows:

\$0.40/SF (\$4/m²) for the total site area including the building footprint.

$$280,000 \times \$0.40 = \$112,000$$

Which "non-mandatory" steps could a project team take prior to conducting air-quality testing that would "improve" the test results for EQ Credit IAQ Assessment? (Choose 2)

- A) Vacuum using a vacuum cleaner with filtration media.
 - B) Test and balance the HVAC system
 - C) Install finishes and furniture
 - D) Clean with low-emitting cleaning products
 - E) Complete punch-list items that would generate VOCs or other contaminants.
- Answer - A) Vacuum using a vacuum cleaner with filtration media.
D) Clean with low-emitting cleaning products

Notes:

Here are the required steps before a flush-out or air testing:

Install all finishes and furniture

For residential projects, install owner-provided furniture

Complete punch-list items that would generate VOCs or other contaminants

Test and balance the HVAC system

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USGBC LEED-AP-BD-C Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Water Efficiency: This topic measures the skills of LEED Green Associates in optimizing water use in building projects. It explores strategies for reducing outdoor water use through efficient irrigation practices, including landscape water requirements and irrigation systems. It also covers using native and adaptive plant species to minimize irrigation demands.
Topic 2	<ul style="list-style-type: none"> Integrative Strategies: It emphasizes the importance of an integrative process. The topic also covers their knowledge about the value of teamwork in developing integrative green strategies and how they can collaborate throughout different project phases.
Topic 3	<ul style="list-style-type: none"> Indoor Water Use Reduction: This section measures the skills of LEED Green Associates in minimizing indoor water consumption to reduce water use effectively, including toilets, urinals, faucets, and showerheads. Additionally, candidates will examine appliance types that consume water, such as cooling towers and washing machines.
Topic 4	<ul style="list-style-type: none"> Indoor Environmental Quality: This domain measures the skills of LEED Green Associates in creating healthy indoor environments. It emphasizes the importance of maintaining adequate ventilation levels through both natural and mechanical means. Additionally, candidates will be assessed on topics such as tobacco smoke control measures.
Topic 5	<ul style="list-style-type: none"> Project Surroundings and Public Outreach: LEED Green Associates learn about promoting sustainable practices, regional design considerations that incorporate green construction measures, cultural awareness issues related to historic or heritage impacts, and ensuring that sustainability efforts are respectful of local values.
Topic 6	<ul style="list-style-type: none"> Building Loads: This topic is focused on optimizing building performances through effective load management. It addresses design considerations such as building orientation and glazing selection while clarifying regional factors that influence these decisions.
Topic 7	<ul style="list-style-type: none"> Sustainable Sites: It covers site assessment and planning that involves evaluating various site characteristics, such as topography, hydrology, climate, vegetation, and soil conditions. It also covers assessing a site's potential as a resource for energy flows while addressing construction activity pollution prevention measures.
Topic 8	<ul style="list-style-type: none"> Location and Transportation: This topic measures the skills of LEED Green Associates in sustainable development. It addresses critical factors in site selection, including development constraints and opportunities related to environmental considerations, and community connectivity concepts, such as walkability and street design, which are vital for promoting sustainable transportation options.
Topic 9	<ul style="list-style-type: none"> LEED Process: This topic tests the skills of LEED Green Associates involved in green building initiatives. It focuses on various methods to achieve LEED goals, such as developing credit interpretation rulings and utilizing Regional Priority Credits to explore synergies within the LEED system.

USGBC LEED AP Building Design + Construction (LEED AP BD+C) Sample Questions (Q140-Q145):

NEW QUESTION # 140

Under Energy and Atmosphere Prerequisite, Fundamental Commissioning and Verification, a current facilities requirements and operations and maintenance plan must contain which information necessary to operate the building efficiently?

- A. Only changes in schedules or setpoints for peak usages during seasons, days of the week, and times of day
- **B. Any changes in schedules or setpoints for different seasons, days of the week, and times of day**
- C. Any changes in schedules or setpoints focusing on only the hottest and coldest periods of the seasons, peak-use days of the week, and times of day
- D. Any changes in schedules during peak times, or for different seasons, peak-usage days of the week, and times of day

Answer: B

Explanation:

A current facilities requirements and operations and maintenance plan must contain any changes in schedules or setpoints for different seasons, days of the week, and times of day. This is to ensure that the building systems are operating efficiently and according to the design intent. The other options are too limited or too specific and do not cover all the possible variations in schedules or setpoints.

NEW QUESTION # 141

The design team has specified products to achieve Materials and Resources Credit: Building Product Disclosure and Optimization - Sourcing of Raw Materials, Option 2. Leadership Extraction Practices for the project. At the end of the construction, it was discovered that the transporter who shipped a portion of the wood did not have chain-of-custody (CoC) certification. The design team should do which of the following?

- A. Recalculate the percent of certified wood and delete the affected wood from the calculation
- B. Remove and replace the affected wood from the project site
- C. Submit a Credit Interpretation Ruling (CIR) to get clarification from USGBC
- **D. Recalculate the percent of certified wood and consider the affected wood as non-certified**

Answer: D

Explanation:

If a transporter lacks chain-of-custody (CoC) certification for certified wood products, the design team should recalculate the percentage of certified wood and classify the affected wood as non-certified (B).

This approach follows LEED's requirements for accurate reporting on certified materials. LEED requires all certified wood to maintain CoC certification from the forest to the project site, so any deviation affects credit calculations. Submitting a CIR (A) isn't needed as the LEED rules are clear on this matter, and removal (D) may not be feasible or cost-effective.

NEW QUESTION # 142

A building owner installs a building automation system (BAS) to allow programmable load control. Which of the following credits can be pursued because of the installation?

- **A. Energy and Atmosphere Credit, Demand Response**
- **B Energy and Atmosphere Credit, Ongoing Commissioning**
- B. Energy and Atmosphere Credit, Enhanced Refrigerant Management
- C. Energy and Atmosphere Credit, Enhanced Commissioning

Answer: A

Explanation:

This is because:

* A building automation system (BAS) is a system that controls and monitors various aspects of a building's operation, such as lighting, heating, ventilation, air conditioning, security, fire alarm, and energy management¹.

* A BAS can allow programmable load control (PLC), which is the ability to adjust the power consumption of devices or equipment based on a schedule, a sensor, or an event². PLC can help reduce the energy demand and cost of a building by optimizing the use of resources and avoiding unnecessary or wasteful consumption³.

* The LEED AP BD+C V4 credit for Demand Response requires that buildings have a demand response program that can respond to changes in electricity prices or supply by reducing or shifting the demand for electricity⁴. A BAS can enable such a program by allowing PLC and other features that can modulate the power usage of devices or equipment in response to market signals or internal conditions.

Therefore, installing a BAS to allow PLC can help achieve the Energy and Atmosphere Credit for Demand Response by reducing the energy demand and cost of a building.

References: 1: Building Automation Systems - an overview | ScienceDirect Topics 2: Programmable Logic Controllers (PLCs) - an overview | ScienceDirect Topics 3: How Programmable Logic Controllers Can Help You Save Money on Your Energy Bills 4:

NEW QUESTION # 143

Which of the following strategies would be considered an acceptable minor improvement within the wetland buffer for Location and Transportation Credit, Sensitive Land Protection?

- A. Build a two-story fitness facility
- B. Remove trees that are less than 6 inches (15.24 cm) diameter at breast height
- C. Change the grade to install a security fence
- D. Provide a vehicular access drive that is less than 16 ft. (5 m) in width

Answer: D

Explanation:

Explanation

Providing a vehicular access drive that is less than 16 ft. (5 m) in width is considered an acceptable minor improvement within the wetland buffer for Location and Transportation Credit, Sensitive Land Protection. This credit requires avoiding development on land that meets one or more of the following criteria: prime farmland, floodplains, threatened or endangered species habitat, water bodies, wetlands, or land within 100 feet (30 meters) of these water bodies or wetlands¹. However, the credit allows minor improvements within the wetland buffer if they are necessary for the project and have minimal environmental impact². Examples of minor improvements include trails, boardwalks, stormwater outfalls, and utility crossings². References:

* Credit: Sensitive land protection | U.S. Green Building Council

* NC-v4.1 LTc2: Sensitive land protection | LEEDuser

NEW QUESTION # 144

Which of the following are control measures recommended by the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) for the Indoor Environmental Quality Credit, Construction Indoor Air Quality Management Plan?

- A. Material selection
- B. Pre-construction meeting
- C. Source control
- D. Contractor training

Answer: C

Explanation:

Source control is one of the control measures recommended by the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) for the Indoor Environmental Quality Credit, Construction Indoor Air Quality Management Plan. Source control means minimizing the generation and emission of indoor air pollutants from the construction activities and materials. Some examples of source control are¹:

* Using low-emitting adhesives, sealants, paints, coatings, and flooring systems that comply with the VOC limits of the applicable LEED credit.

* Storing absorptive materials in a protected area and covering them with plastic sheeting to prevent moisture and mold growth.

* Scheduling the installation of finish materials after the completion of wet and dusty work, such as concrete pouring, drywall sanding, and painting.

* Isolating work areas where high levels of contaminants are generated or used, such as welding, cutting, grinding, and solvent cleaning, and providing adequate ventilation and exhaust.

* Prohibiting smoking, eating, and drinking in the work areas, and providing designated areas for these activities.

Reference:

* Construction indoor air quality management plan | U.S. Green Building Council

NEW QUESTION # 145

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