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LEED AP® BD+C EXAM PREPARATION GUIDE

BUILDING DESIGN
CONSTRUCTION



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Keeping in view different preparation styles of USGBC LEED-AP-BD-C test applicant TestBraindump has designed three easy-to-use formats for its product. Each format has a pool of LEED AP Building Design + Construction (LEED AP BD+C) (LEED-AP-BD-C) actual questions which have been compiled under the guidance of thousands of professionals worldwide. Questions in this product will appear in the USGBC LEED-AP-BD-C final test.

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

Topic	Details
Topic 1	<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 2	<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 3	<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 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"> 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.
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.

USGBC LEED AP Building Design + Construction (LEED AP BD+C) Sample Questions (Q277-Q282):

NEW QUESTION # 277

What percentage of all energy usage is attributable to buildings?

- A. 30%
- B. 50%
- C. 40%
- D. 60%

Answer: C

Explanation:

According to the U.S. Green Building Council (USGBC) and U.S. Department of Energy, buildings account for approximately 40% of total energy consumption in the United States.

* This includes electricity, heating, and cooling loads across residential, commercial, and industrial buildings.

* Buildings are the largest energy consumers, surpassing transportation and industry sectors.

* LEED emphasizes energy efficiency to help reduce this 40% energy demand.

Buildings account for 40% of all energy consumption, making Option C the correct answer.

(Source: Official LEED BD+C Reference Manual)

NEW QUESTION # 278

The results of a building energy model show that a building will consume 2,200,435 kilowatt-hours (kWh) per year (building is served solely by electricity). The building owner wants to achieve Energy and Atmosphere Credit, Green Power and Carbon Offsets. What is the minimum amount of green energy required to be purchased on an annual basis?

- A. 2,200,435 kWh
- B. 1,100,218 kWh
- C. 550,109 kWh
- D. 770,152 kWh

Answer: B

Explanation:

LEED requires that at least 50% of a building's annual electricity consumption be offset by green power or carbon offsets to achieve the Energy and Atmosphere Credit: Green Power and Carbon Offsets. For this building with a projected annual consumption of 2,200,435 kWh, half of this amount, 1,100,218 kWh, must be purchased from green sources to meet the credit requirements. This strategy helps mitigate carbon emissions by promoting the use of renewable energy.

NEW QUESTION # 279

A new athletic facility contains a laundry room which is adjacent to the locker rooms. Which strategy will contribute toward the Interior Cross-Contamination Prevention strategy in Indoor Environmental Quality Credit, Enhanced Indoor Air Quality Strategies?

- A. Install particle filters, with a MERV of 13 or higher or F7
- B. Naturally ventilate the laundry space per ASHRAE 62.1-2010
- C. Relocate the laundry facility to the basement
- D. Provide a ventilation system specifically for the laundry facility that has no recirculating air

Answer: D

Explanation:

Explanation

The strategy that will contribute toward the Interior Cross-Contamination Prevention strategy in Indoor Environmental Quality Credit, Enhanced Indoor Air Quality Strategies is to provide a ventilation system specifically for the laundry facility that has no recirculating air. This is because the laundry facility is a space where hazardous gases or chemicals may be present or used, such as detergents, bleach, or fabric softeners.

According to the LEED v4 Reference Guide for Building Design and Construction, the project must

"sufficiently exhaust each space where hazardous gases or chemicals may be present or used (e.g., garages, housekeeping and laundry areas, copying and printing rooms), using the exhaust rates determined in EQ Prerequisite Minimum Indoor Air Quality Performance or a minimum of 0.50 cfm per square foot (2.54 l/s per square meter), to create negative pressure with respect to adjacent spaces when the doors to the room are closed. For each of these spaces, provide self-closing doors and deck-to-deck partitions or a hard-lid ceiling." Therefore, option D is the correct answer. The other options will not prevent cross-contamination from the laundry facility to the locker rooms. Relocating the laundry facility to the basement (option A) may reduce the exposure of the occupants to the laundry chemicals, but it will not eliminate the possibility of cross-contamination to other spaces in the basement. Naturally ventilating the laundry space per ASHRAE

62.1-2010 (option B) may not provide sufficient exhaust to create negative pressure and prevent cross-contamination, especially if the outdoor air quality is poor or the natural ventilation is not well designed.

Installing particle filters, with a MERV of 13 or higher or F7 (option C) may improve the air quality in the laundry space, but it will not prevent the hazardous gases or chemicals from escaping to the adjacent spaces through the ventilation system or the gaps in the doors or ceiling. References: LEED v4 Reference Guide for Building Design and Construction, p.6881; ASHRAE Standard 62.1-2010, Section 6.2.52

NEW QUESTION # 280

Which of the following is true regarding LEED Pilot Credits?

- A. Pilot Credit feedback surveys must be completed
- B. Pilot Credits can be attempted in the design review stage only
- C. Pilot Credits are not specific to the rating systems

- D. A registered Pilot Credit must be replaced on the LEED project's scorecard if that pilot credit is removed from the Pilot Credit Library

Answer: A

Explanation:

One of the requirements for attempting a pilot credit is to complete a feedback survey after submitting the project for review. The LEED v4 Reference Guide for Building Design and Construction states that "the project team must complete a feedback survey for each pilot credit attempted. The survey link is provided in the pilot credit language. The survey must be completed after the project has been submitted for review and before the project receives a final rating"¹. The feedback survey is an important tool for USGBC to evaluate the effectiveness and applicability of the pilot credit, and to make improvements or modifications based on the project team's experience.

NEW QUESTION # 281

Which of the following strategies can be used to decrease the envelope load of a building?

- A. Use economizers for free cooling
- **B. Provide summer solar shading**
- C. Maximize daylighting
- D. Decrease opaque wall area

Answer: B

Explanation:

Reducing the envelope load involves minimizing the heat that enters or escapes through a building's envelope (walls, windows, roof, etc.). Summer solar shading is an effective strategy to block direct sunlight during warmer months, decreasing the cooling load on the HVAC system. This method helps reduce solar heat gain, which lowers energy usage for cooling. Other options like maximizing daylighting (B) increase natural light but may also increase heat gain, and decreasing the opaque wall area (C) can actually increase energy loss.




Economizers (D) are HVAC strategies and don't directly reduce the envelope load.

NEW QUESTION # 282

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