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

Topic	Details
Topic 1	• Energy and Atmosphere: In this topic, LEED Green Associates focuses on building reuse, including historic building renovations. It covers material reuse strategies, enclosure materials, and permanently installed interior components into new designs.
Topic 2	• 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 3	• 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 4	• 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 5	• 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 6	• 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 7	• 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.

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USGBC LEED AP Building Design + Construction (LEED AP BD+C) Sample Questions (Q58-Q63):

NEW QUESTION # 58
A project team is using the whole building simulation model to quantify the percentage of energy savings for the project. Which of the following should remain the same for both the baseline building and the proposed building?

- A. Total window area and building envelope construction
- B. Building operating schedule and occupancy hours
- C. Building operating schedule and total window area
- D. Building envelope construction and occupancy hours

Answer: B

Explanation:
Explanation
This option requires the project team to use the same building operating schedule and occupancy hours for both the baseline building and the proposed building in the whole building simulation model1. This option ensures that the energy savings are calculated based on the same level of building activity and occupancy, which are major factors that affect the energy performance of a building2.
References: = LEED v4: Building Design + Construction Guide, [Whole Building Energy Simulation - an overview | ScienceDirect Topics].

NEW QUESTION # 59
For minimum acoustic performance, peak-hour is defined as M

- A. highest noise level over various periods of time
- B. an energy-average of noise level divided by total sample time and area of the space
- C. lowest noise level over a specified sample time
- D. an energy-average of the noise level over a specified sample time

Answer: A

Explanation:
Peak-hour is a term used to describe the time period when the traffic noise is highest, usually during morning and evening rush hours. Peak-hour noise level is measured by the equivalent continuous sound level (Leq), which is an energy-average of the noise level over a specified sample time. For minimum acoustic performance, LEED requires projects to implement acoustic treatment and other measures to minimize noise intrusion from exterior sources for high-noise sites (peak-hour Leq above 60 dBA during school hours).

References:
* LEED BD+C: Schools v4 - LEED v4 Minimum acoustic performance
* Schools-NC-v4 EQp3: Minimum acoustic performance | LEEDuser
* Schools-NC-v4.1 EQp3: Minimum acoustic performance | LEEDuser

NEW QUESTION # 60
Which of the following projects are eligible for LEED certification?

- A. New office building 900 ft² (83.6 m²)
- B. Prefabricated sandwich panel house
- C. Houseboat
- D. Mobile home

Answer: A

Explanation:
To be eligible for LEED certification, a project must:
* Be a permanent structure on existing land (floating structures like houseboats do not qualify).
* Have a defined site boundary (mobile homes do not meet this requirement unless they are permanently installed).
* Have a minimum floor area of 250 square feet (23.2 m²) (so a 900 ft² office qualifies).
* Prefabricated buildings (Option A) may qualify if they are permanently installed.
* Houseboats (Option C) and mobile homes (Option D) are not eligible unless permanently located.
The new office building (Option B) meets all LEED requirements and is the correct answer.
(Source: Official LEED BD+C Reference Manual)

NEW QUESTION # 61
Which of the following characteristics are a requirement of a compliant water meter?

- A. Must be capable of storing data for 36 months
- B. Must be digital
- C. Must be permanently installed
- D. Must transmit data to a remote location

Answer: C

Explanation:
Explanation
A compliant water meter is a device that measures and records the total potable water use of the building and associated grounds. According to the LEED v4 Reference Guide for Building Design and Construction, a compliant water meter must meet the following requirements1:
*It must be permanently installed and measure the total water use of the building and grounds.
*It must have a remote communication capability or be readable from a location that is accessible to building management.
*It must have a data storage capability of at least 18 months, or be connected to a system that can store data for at least 18 months.
*It must have a resolution of 0.5 gallons (2 liters) or less, or the smallest unit of measure that is appropriate for the expected water use of the building.
References:
*LEED v4 Reference Guide for Building Design and Construction, Water Efficiency Prerequisite:
Building-Level Water Metering, page 3781
*Water metering | U.S. Green Building Council

NEW QUESTION # 62
Which of the following project types is required to consider the perimeter floor area instead of the regularly occupied floor area under the Indoor Environmental Quality Credit, Daylight calculations?

- A. Retail
- B. Schools
- C. Core and Shell

- D. Healthcare

Answer: D

Explanation:
Explanation
Healthcare projects are required to consider the perimeter floor area instead of the regularly occupied floor area under the Indoor Environmental Quality Credit, Daylight calculations. This is because healthcare projects have different daylighting needs and challenges than other project types, and the perimeter area is more likely to have access to natural light and views. The perimeter floor area is defined as the regularly occupied spaces within 15 feet (4.5 meters) of the exterior wall that meets the minimum glazing requirements. References:
LEED v4 for Building Design and Construction, p. 6021
LEED v4 for Building Design and Construction, p. 362

NEW QUESTION # 63
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