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

Topic	Details
Торіс 1	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.
Торіс 2	 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.
Торіс 3	 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 4	 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 5	 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.
Торіс 6	 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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In today's competitive USGBC industry, only the brightest and most qualified candidates are hired for high-paying positions. Obtaining LEED-AP-BD-C certification is a wonderful approach to be successful because it can draw in prospects and convince companies that you are the finest in your field. Pass the LEED AP Building Design + Construction (LEED AP BD+C) to establish your expertise in your field and receive certification. However, passing the LEED AP Building Design + Construction (LEED AP BD+C) LEED-AP-BD-C Exam is challenging.

USGBC LEED AP Building Design + Construction (LEED AP BD+C) Sample Questions (Q269-Q274):

NEW QUESTION #269

When using the Integrative Process, what is the best way for the LEED AP to assess the impact of indoor and outdoor water consumption in a Building Design and Construction project?

- A. Estimate consumption by using 20 gal. per day (76 I per day) for each Full Time Equivalent (FTE) scheduled to occupy the building
- B. Install permanent metering on both the water sources and the waste water leaving the site
- C. Perform a preliminary water budget analysis before the completion of schematic design
- D. At the completion of schematic design, count the fixtures and apply the maximum flow rate

Answer: C

Explanation:

When using the Integrative Process, the best way for the LEED AP to assess the impact of indoor and outdoor water consumption in a Building Design and Construction project is to perform a preliminary water budget analysis before the completion of schematic design. This analysis should include the following steps1:

- * Identify the project's water sources and uses, such as potable water, reclaimed water, rainwater, graywater, blackwater, irrigation, cooling towers, etc.
- * Estimate the baseline water consumption for each use based on the applicable codes, standards, and benchmarks.
- * Identify potential water conservation strategies that can reduce the demand or increase the supply of water, such as low-flow fixtures, native landscaping, rainwater harvesting, graywater reuse, etc.
- * Evaluate the feasibility, cost-effectiveness, and environmental benefits of each strategy using a life-cycle approach.
- * Select the most appropriate strategies and document how they inform the design decisions and meet the project goals.
- * Compare the projected water consumption with the baseline and calculate the percentage reduction.

Performing a preliminary water budget analysis before the completion of schematic design allows the LEED AP to identify opportunities for water efficiency and innovation early in the design process. It also helps to optimize the integration of water systems with other building and site systems, such as energy, materials, indoor environmental quality, etc. Moreover, it supports the achievement of other LEED credits related to water efficiency, such as WE Prerequisite 1: Outdoor Water Use Reduction, WE Prerequisite 2: Indoor Water Use Reduction, WE Credit 1: Outdoor Water Use Reduction, WE Credit 3: Cooling Tower Water Use2.

References:

- * Understanding Integrative Design in LEED v41
- * LEED v4 for Building Design and Construction2

NEW QUESTION #270

Under the Energy and Atmosphere Credit, Optimize Energy Performance, what method should display lighting use for establishing allowable lighting power?

- A. The square-footage-of-usable-space method
- B. Glare rating index method
- C. The space-by-space method
- D. Seasonal usage peaks method

Answer: C

Explanation:

Detailed Explanation:

The space-by-space method allows for a more precise calculation of allowable lighting power by assigning specific lighting power densities (LPDs) to each space type based on its function. This method aligns with LEED's goal of optimizing energy performance by tailoring lighting to the actual requirements of the building's spaces.

NEW QUESTION #271

A facility manager cleaning highly reflective paving material is

- A. lowering the Solar Reflectance Index (SRI)
- B. unnecessarily wasting water
- C. reducing the heat island effect
- D. increasing the heat island effect

Answer: C

Explanation:

The heat island effect is the phenomenon of urban areas having higher air temperatures than surrounding rural areas due to the absorption and emission of heat by human-made surfaces, such as buildings, roads, and pavements. The heat island effect can have negative impacts on the environment, human health, and energy consumption. One of the strategies to reduce the heat island effect is to use highly reflective paving materials that have a high solar reflectance index (SRI), which measures the ability of a surface to reflect solar radiation and stay cool. However, over time, the paving materials can accumulate dirt and dust, which can lower their reflectance and increase their heat absorption. Therefore, a facility manager cleaning highly reflective paving material is reducing the heat island effect by restoring the reflectance and cooling potential of the surface 12.

Reference:

- * Heat Island Reduction | U.S. Green Building Council1
- * SpecTopics: Heat Island Reduction Credit and LEED V4/V4.1 Carlisle SynTec

NEW QUESTION #272

Which of the following is omitted from the assessment while performing preliminary energy modeling?

- A. Thermal comfort ranges
- B. Massing and orientation
- C. Plug and process loads
- D. Supply sources

Answer: C

Explanation:

Detailed

Preliminary energy modeling focuses on the building's massing, orientation, thermal comfort ranges, and energy supply sources. Plug and process loads are typically omitted at this stage as they are highly variable and depend on specific occupant behavior and equipment usage. LEED focuses on the building's core energy performance during preliminary analysis.

NEW QUESTION #273

A building owner is considering the installation of a solar thermal panel on the roof of the building. The initial cost of the system is higher than a conventional natural gas system. Which of the following is true to make the renewable energy option economically feasible?

- A. Higher initial cost must exceed the savings on the utility cost over the lifetime of the system
- B. Higher initial cost must exceed the cost of the utility over the lifetime of the system
- C. Utility cost savings over the lifetime of the system must offset the higher initial cost
- D. Utility cost savings over the lifetime of the system must be lower than the higher initial cost of the system

Answer: C

Explanation:

The renewable energy option is economically feasible if the present value of the utility cost savings over the lifetime of the system is greater than or equal to the present value of the higher initial cost of the system. This means that the system will pay for itself and generate net savings in the long run. The utility cost savings depend on the amount of energy produced by the solar thermal panel, the price of natural gas, and the inflation rate. The higher initial cost depends on the size, type, and installation of the solar thermal panel.

NEW QUESTION #274

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