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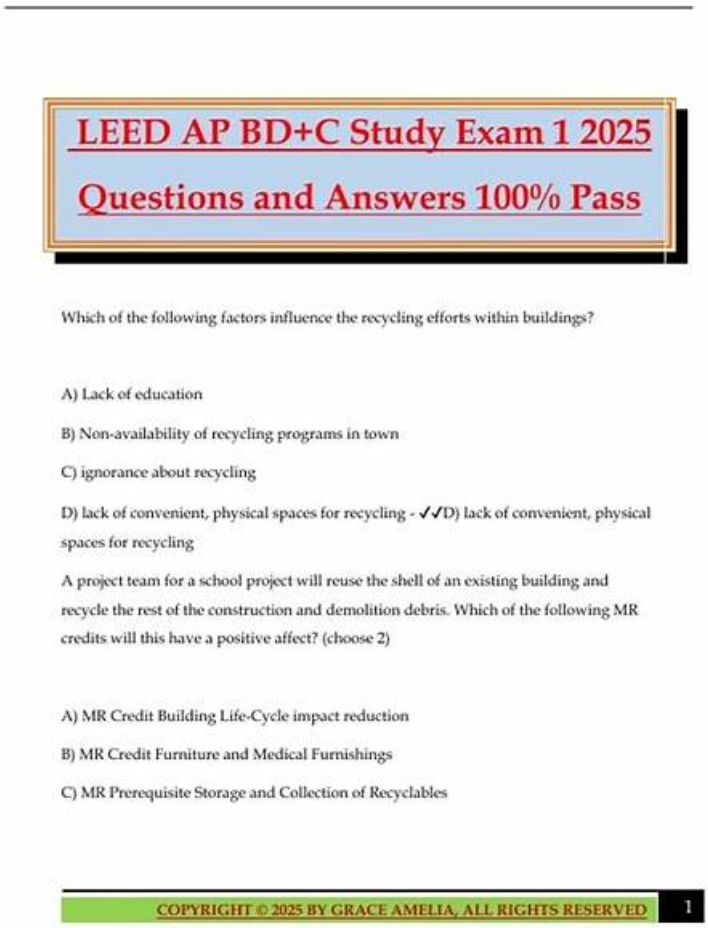
LEED AP BD+C Study Exam 1 2025

Questions and Answers 100% Pass

Which of the following factors influence the recycling efforts within buildings?

A) Lack of education

B) Non-availability of recycling programs in town

C) ignorance about recycling

D) lack of convenient, physical spaces for recycling - ✓✓D) lack of convenient, physical spaces for recycling

A project team for a school project will reuse the shell of an existing building and recycle the rest of the construction and demolition debris. Which of the following MR credits will this have a positive affect? (choose 2)

A) MR Credit Building Life-Cycle impact reduction

B) MR Credit Furniture and Medical Furnishings

C) MR Prerequisite Storage and Collection of Recyclables

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

Topic	Details
Topic 1	• 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 2	• 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 3	• 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	• 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	• 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.

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USGBC LEED AP Building Design + Construction (LEED AP BD+C) Sample Questions (Q122-Q127):

NEW QUESTION # 122
When calculating the reverberation time of a room, which of the following pieces of information is least relevant?

- A. Operating sound level of nearest HVAC equipment
- B. Height and width of room
- C. Noise reduction coefficient of the ceiling surface
- D. Sound absorption coefficient of the floor surface

Answer: A

Explanation:
When calculating the reverberation time of a room, the operating sound level of the nearest HVAC equipment is the least relevant piece of information. The reverberation time is the time it takes for the sound to decay by 60 decibels after the source stops emitting sound. The reverberation time depends on the volume and the surface area of the room, as well as the sound absorption coefficients of the materials that cover the surfaces. The height and width of the room are needed to calculate the volume and the surface are a. The noise reduction coefficient of the ceiling surface and the sound absorption coefficient of the floor surface are needed to calculate the total sound absorption of the room. The operating sound level of the nearest HVAC equipment is not relevant for calculating the reverberation time, but it may affect the background noise level and the speech intelligibility in the room.
Reference:
* LEED v4 Reference Guide for Building Design and Construction, Indoor Environmental Quality Credit: Acoustic Performance, page 7101
* Sounds of Silence: Acoustic Performance in LEED v4.12

NEW QUESTION # 123
A rectangular office building is located in an extremely humid climate and is shaded by very large adjacent buildings on all four sides. If the building owner wants to decrease the annual energy cost for operating the building, which of the following would be the best design approach?

- A. Install photovoltaic panels on the sides of the building
- B. Install glazing with a higher solar heat gain factor
- C. Increase outdoor air intake quantities during summer months
- D. Recover waste energy through exhaust air energy recovery systems

Answer: D

Explanation:
The best design approach for the office building is D. Recover waste energy through exhaust air energy recovery systems. This is because:
Installing glazing with a higher solar heat gain factor would increase the cooling load and energy consumption of the building, especially in an extremely humid climate where heat gain is high1.
Installing photovoltaic panels on the sides of the building would generate electricity from solar radiation, but it would not reduce the cooling load or energy consumption of the building, unless the electricity is used to power a heat pump or other cooling device2.
Increasing outdoor air intake quantities during summer months would provide more fresh air to dilute the indoor pollutants and improve the indoor air quality, but it would not reduce the cooling load or energy consumption of the building, unless it is combined with a ventilation system that recovers waste energy from the exhaust air stream34.
An exhaust air energy recovery system (ERV) is a type of mechanical ventilation that uses a heat exchanger to transfer heat between two streams of air: one that enters the building and one that exits. The ERV pre-cools and dehumidifies the incoming ventilation air by sending the rejected heat into the exhaust airstream to cool the condenser coil at a lower temperature. This reduces both the cooling load and energy consumption of the building, as well as improving its indoor humidity levels34. An ERV can also provide some fresh outdoor air to meet ASHRAE Standard 62 ventilation rates5.
Therefore, an ERV is a more efficient and effective design approach than glazing, photovoltaic panels, or increased outdoor air intake quantities for reducing the annual energy cost for operating an office building in an extremely humid climate and shaded by very large adjacent buildings on all four sides.

NEW QUESTION # 124
The total land area within a 1/4 mi. (0.40 km) radius of a project boundary consists of 130 acres (53 hectares) andhas a residential to nonresidential ratio of 60:40. Within this same total land area, there are 780 dwelling units and1,600,000 ft2 (148 645 m2) of nonresidential building space. Given these parameters, what are the surroundingresidential and nonresidential densities when attempting to achieve Location and Transportation Credit,Surrounding Density and Diverse Uses?

- A. 10 dwelling units per acre (24 dwelling units per hectare) and a FAR of 0.70
- B. 13 dwelling units per acre (32 dwelling units per hectare) and a FAR of 0.47
- C. 10 dwelling units per acre (24 dwelling units per hectare) and a Floor Area Ratio (FAR) of 0.47
- D. 15 dwelling units per acre (36 dwelling units per hectare) and a FAR of 0.70

Answer: B

Explanation:
Explanation
The surrounding residential density is calculated by dividing the total number of dwelling units by the total residential land area. In this case, it would be 780 dwelling units divided by 60% of 130 acres, which equals approximately 13 dwelling units per acre (or 32 dwelling units per hectare).
The nonresidential density, or Floor Area Ratio (FAR), is calculated by dividing the total nonresidential building floor area by the total nonresidential land area. In this case, it would be 1,600,000 ft² divided by 40% of 130 acres, which equals a FAR of approximately 0.47.
These calculations are used when attempting to achieve the Location and Transportation Credit, Surrounding Density and Diverse Uses, under the LEED AP BD+C V4 rating system.
References:
* [LEED v4 BD+C Reference Guide]

NEW QUESTION # 125
When following the LEED Building Design and Construction Integrative Process credit, which of the following is the approach for

the design team to follow?

- A. Locate a solid waste provider that has sorting capabilities
- B. Determine if green vehicles will be applicable to the project
- C. Identify synergies among building systems and equipment
- D. Assure the aesthetics will match existing neighborhood conditions

Answer: C

Explanation:
The Integrative Process credit in LEED BD+C emphasizes a collaborative and holistic approach to design and construction. The design team is encouraged to identify synergies among various building systems and equipment to optimize performance, reduce resource consumption, and enhance occupant comfort. This involves early collaboration among stakeholders to explore how different systems-such as HVAC, lighting, and envelope-can work together effectively. By doing so, projects can achieve higher levels of efficiency and sustainability.

NEW QUESTION # 126
A project team member has prepared a map and accompanying table as documentation for the Location and Transportation Credit. Surrounding Density and Diverse Uses. Option 2. Diverse Uses. The map includes the location of each diverse use. the location of the project and the main entrance of the building. The table includes the distance to each use. the name of each use and the category of each use The team lead reviews the documentation and notes an important missing item. Which of the following is the most important item to add to the documentation?

- A. A description of each use
- B. The location of parking lots near each use
- C. A calculation of the expected number of project occupants who will visit each use
- D. Walking routes from the project to each use

Answer: D

Explanation:
According to the LEED v4: Building Design + Construction Guide1, Option 2 of the Surrounding Density and Diverse Uses credit requires the project to be within walking distance of at least 10 diverse uses. The guide also states that "walking distance is defined as the distance that a pedestrian must travel between origins and destinations without obstruction, in a safe and comfortable environment on a continuous network of sidewalks, all weather-surface footpaths, crosswalks, or equivalent pedestrian facilities." Therefore, the documentation must include walking routes from the project to each use to demonstrate that the distance requirement is met. References:
* LEED v4: Building Design + Construction Guide
* CI-v4.1 LTc2: Surrounding density and diverse uses | LEEDuser

NEW QUESTION # 127
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