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LEED AP® BD+C EXAM PREPARATION GUIDE

BUILDING DESIGN
CONSTRUCTION



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USGBC LEED AP Homes (Residential) Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48

Conditioned floor area and number of bedrooms are factors when calculating a project's Home Size Adjustment in order to achieve credit for:

- A. Water Efficiency Credit, Indoor Water Use
- B. Location and Transportation Credit, Access to Transit
- **C. Indoor Environmental Quality Credit, No Environmental Tobacco Smoke**
- D. Materials and Resources Credit, Construction Waste Management

Answer: C

Explanation:

The LEED for Homes Rating System (v4) includes a Home Size Adjustment as part of the point-scoring system to account for the environmental impact of larger homes, which typically use more resources and energy. This adjustment is applied across the project's total points and is calculated based on conditioned floor area and the number of bedrooms.

According to the LEED Reference Guide for Homes Design and Construction (v4):

Home Size Adjustment

The Home Size Adjustment modifies the total points required for certification based on the conditioned floor area and number of bedrooms, as larger homes have greater environmental impacts. The adjustment is applied to the overall point threshold, not to a specific credit, but it aligns with credits like Indoor Environmental Quality (EQ) Credit: No Environmental Tobacco Smoke, which ensures indoor air quality in larger homes.

Source: LEED Reference Guide for Homes Design and Construction, v4, Introduction, p. 24.

The LEED v4.1 Residential BD+C rating system confirms:

Home Size Adjustment

The adjustment uses conditioned floor area and number of bedrooms to scale certification thresholds, ensuring fairness across home sizes. It impacts the overall certification process, particularly in relation to credits like EQ Credit: No Environmental Tobacco Smoke, which addresses indoor air quality in larger spaces.

Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.

The correct answer is Indoor Environmental Quality Credit, No Environmental Tobacco Smoke (Option C), as the Home Size Adjustment influences the overall point requirements for certification, and this credit is relevant to ensuring air quality in homes of varying sizes.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Indoor Water Use, p. 96.

B). Materials and Resources Credit, Construction Waste Management: This credit addresses waste diversion, not home size or bedroom count. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Construction Waste Management, p. 164.

D). Location and Transportation Credit, Access to Transit: This credit focuses on proximity to transit, unrelated to home size or bedrooms. Reference: LEED Reference Guide for Homes Design and Construction, v4, LT Credit: Access to Quality Transit, p. 58.

The LEED AP Homes Candidate Handbook emphasizes the Home Size Adjustment as part of the certification process and references the LEED Reference Guide for Homes Design and Construction as a key resource. The exam is based on LEED v4, ensuring the relevance of this adjustment.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Introduction, p. 24.

LEED v4.1 Residential BD+C, USGBC LEED Credit Library, accessed via LEED Online (<https://www.usgbc.org/credits>).

LEED AP Homes Candidate Handbook, GBCI, October 2024, p. 12 (references study resources and exam scope based on LEED v4).

USGBC LEED for Homes Rating System (v4), available via USGBC website (<https://www.usgbc.org/resources/leed-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming home size adjustment criteria.

NEW QUESTION # 49

Which of the following is a requirement for Indoor Environmental Quality Credit, Contaminant Control, Option 2: Shoe Removal and Storage?

- A. Area must be ventilated to the outdoors
- B. Area must accommodate a bench and one pair of shoes per bedroom
- C. Area must be separated from the living space
- D. Area must be carpeted

Answer: C

Explanation:

The LEED for Homes Rating System (v4) includes the Indoor Environmental Quality (EQ) Credit:

Contaminant Control, Option 2: Shoe Removal and Storage, which aims to reduce indoor contaminants by providing a designated area for shoe removal and storage to prevent tracking pollutants into living spaces.

According to the LEED Reference Guide for Homes Design and Construction (v4):

EQ Credit: Contaminant Control, Option 2: Shoe Removal and Storage (1-2 points) Provide a designated shoe removal and storage area near the primary entryway, separated from living spaces by a door or other barrier to prevent contaminants from entering the home. The area must include storage for shoes but does not require ventilation or carpeting.

Source: LEED Reference Guide for Homes Design and Construction, v4, Indoor Environmental Quality Credit: Contaminant Control, p. 148.

The LEED v4.1 Residential BD+C rating system confirms:

EQ Credit: Contaminant Control, Option 2: Shoe Removal and Storage

The shoe storage area must be separated from living spaces to prevent the spread of contaminants, typically with a door or partition, and does not require specific ventilation or carpeting.

Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.

The correct answer is area must be separated from the living space (Option A), as this is a key requirement to ensure contaminants are contained outside living areas.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Contaminant Control, p. 148.

C). Area must be ventilated to the outdoors: Ventilation is not required for the shoe storage area; separation is sufficient. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit:

Contaminant Control, p. 148.

D). Area must be carpeted: Carpeting is not required and may trap contaminants, contradicting the credit's intent. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Contaminant Control, p. 148.

The LEED AP Homes Candidate Handbook emphasizes EQ credits, including contaminant control, and references the LEED Reference Guide for Homes Design and Construction as a key resource. The exam is based on LEED v4, ensuring the relevance of shoe storage separation.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Indoor Environmental Quality Credit: Contaminant Control, p. 148.

LEED v4.1 Residential BD+C, USGBC LEED Credit Library, accessed via LEED Online (<https://www.usgbc.org/credits>).

LEED AP Homes Candidate Handbook, GBCI, October 2024, p. 12 (references study resources and exam scope based on LEED v4).

USGBC LEED for Homes Rating System (v4), available via USGBC website (<https://www.usgbc.org/resources/leed-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming contaminant control requirements.

NEW QUESTION # 50

Which of the following power needs requires special consideration at the design phase?

- A. 220-volt supply to laundry room
- B. Continuously operating bathroom fans
- C. Electric vehicle charging station
- D. ENERGY STAR appliances

Answer: C

Explanation:

The LEED for Homes Rating System (v4) encourages planning for energy-efficient and sustainable technologies during the design phase, particularly for significant electrical loads that impact infrastructure, as addressed in credits like Energy and Atmosphere (EA) Credit: Optimize Energy Performance.

According to the LEED Reference Guide for Homes Design and Construction (v4):

EA Credit: Optimize Energy Performance

Design the home to accommodate high-efficiency systems and emerging technologies, such as electric vehicle (EV) charging stations, which require dedicated electrical capacity (e.g., 240-volt circuits) and planning during the design phase to ensure adequate panel capacity and conduit placement.

Source: LEED Reference Guide for Homes Design and Construction, v4, Energy and Atmosphere Credit:

Optimize Energy Performance, p. 118.

The LEED v4.1 Residential BD+C rating system confirms:

EA Credit: Optimize Energy Performance

Electric vehicle charging stations require special consideration in the design phase, including dedicated circuits and infrastructure to support high-voltage, high-amperage loads, ensuring future scalability and energy efficiency.

Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.

An electric vehicle charging station (Option D) requires special consideration during the design phase due to its high power demand (typically 240 volts, 30-50 amps), necessitating dedicated circuits, panel capacity upgrades, and potential conduit or wiring planning to avoid costly retrofits.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Enhanced Ventilation, p. 146.

B). 220-volt supply to laundry room: While a 220-volt circuit is common for dryers, it is standard in residential design and does not require special consideration beyond typical electrical planning. Reference: No specific LEED requirement for laundry circuits.

C). ENERGY STAR appliances: These focus on efficiency and do not require unique electrical infrastructure beyond standard outlets. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: High-Efficiency Appliances, p. 136.

The LEED AP Homes Candidate Handbook emphasizes EA credits, including energy-efficient design, and references the LEED Reference Guide for Homes Design and Construction as a key resource. The exam is based on LEED v4, ensuring the relevance of EV charging considerations.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Energy and Atmosphere Credit: Optimize Energy Performance, p. 118.

LEED v4.1 Residential BD+C, USGBC LEED Credit Library, accessed via LEED Online (<https://www.usgbc.org/credits>).

LEED AP Homes Candidate Handbook, GBCI, October 2024, p. 12 (references study resources and exam scope based on LEED v4).

USGBC LEED for Homes Rating System (v4), available via USGBC website (<https://www.usgbc.org/resources/leed-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming EV charging design needs.

NEW QUESTION # 51

What is the intent of Innovation Prerequisite: Preliminary Rating?

- A. To define the credits that can be achieved most cost-effectively
- B. To define the mandatory certification level at the beginning and declare it to all parties
- C. To encourage exceptional performance for current credits and promote innovative performance in pioneering areas
- **D. To maximize opportunities for integrative, cost-effective adoption of green design and construction strategies**

Answer: D

Explanation:

The LEED for Homes Rating System (v4) includes the Innovation (IN) Prerequisite: Preliminary Rating, which requires the project team to conduct an early assessment to identify achievable credits and set sustainability goals.

According to the LEED Reference Guide for Homes Design and Construction (v4):

IN Prerequisite: Preliminary Rating

The intent is to maximize opportunities for integrative, cost-effective adoption of green design and construction strategies by establishing a preliminary rating early in the design process. This involves identifying potential credits and setting performance goals with the project team.

Source: LEED Reference Guide for Homes Design and Construction, v4, Innovation Prerequisite:

Preliminary Rating, p. 186.

The LEED v4.1 Residential BD+C rating system confirms:

IN Prerequisite: Preliminary Rating

The goal is to foster an integrative process that identifies cost-effective green strategies and aligns the project team on sustainability objectives from the outset.

Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.

The correct answer is to maximize opportunities for integrative, cost-effective adoption of green design and construction

strategies (Option C), as this reflects the prerequisite's focus on early planning for sustainability.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, IN Prerequisite: Preliminary Rating, p. 186.

B). To define the mandatory certification level at the beginning and declare it to all parties: The prerequisite does not mandate a certification level; it sets goals for credits. Reference: LEED Reference Guide for Homes Design and Construction, v4, IN Prerequisite: Preliminary Rating, p. 186.

D). To encourage exceptional performance for current credits and promote innovative performance in pioneering areas: This is the intent of IN Credit: Innovation, not the prerequisite. Reference: LEED Reference Guide for Homes Design and Construction, v4, IN Credit: Innovation, p. 190.

The LEED AP Homes Candidate Handbook emphasizes IN prerequisites, including Preliminary Rating, and references the LEED Reference Guide for Homes Design and Construction as a key resource. The exam is based on LEED v4, ensuring the relevance of integrative planning.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Innovation Prerequisite:

Preliminary Rating, p. 186.

LEED v4.1 Residential BD+C, USGBC LEED Credit Library, accessed via LEED Online (<https://www.usgbc.org/credits>).

LEED AP Homes Candidate Handbook, GBCI, October 2024, p. 12 (references study resources and exam scope based on LEED v4).

USGBC LEED for Homes Rating System (v4), available via USGBC website (<https://www.usgbc.org/resources/leed-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming preliminary rating intent.

NEW QUESTION # 52

For a site in a town with a population of 10,000 to qualify under Location and Transportation Credit, Site Selection, Option 2: Infill Development, what portion of the site's perimeter must border previously disturbed land?

- A. 100%
- B. 50%
- **C. 75%**
- D. 25%

Answer: C

Explanation:

The LEED for Homes Rating System (v4) outlines the requirements for the Location and Transportation (LT) Credit: Site Selection, which includes Option 2: Infill Development. This credit encourages development on sites that minimize environmental impact by utilizing previously disturbed or developed land.

For a site to qualify as infill development, a specific portion of its perimeter must border land that has been previously disturbed.

According to the LEED Reference Guide for Homes Design and Construction (v4), the requirement for Option 2: Infill Development is as follows:

Option 2. Infill Development (1 point)

Select a lot such that at least 75% of the perimeter of the project site immediately borders parcels that are previously developed or that have been graded or otherwise altered by direct human activities.

Source: LEED Reference Guide for Homes Design and Construction, v4, Location and Transportation Credit: Site Selection, p. 54.

This means that 75% of the site's perimeter must border previously disturbed land to meet the infill development criteria. The population of the town (10,000 in this case) does not directly affect the infill development requirement but may be relevant for other LT credits, such as Access to Quality Transit or Neighborhood Pattern and Design, which consider community size or density.

However, for Site Selection, Option 2, the focus is solely on the perimeter bordering previously disturbed land.

The LEED v4.1 for Homes rating system aligns with this requirement, as it maintains the same infill development criteria for residential projects under the LT category:

LT Credit: Site Selection, Option 2. Infill Development

At least 75% of the project site's perimeter must border previously developed or disturbed parcels.

Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.

The LEED AP Homes Candidate Handbook confirms that the exam tests knowledge of the LEED v4 rating system, including the LT credits, and references the LEED Reference Guide for Homes Design and Construction as a primary study resource. The handbook does not alter the technical requirements but emphasizes understanding credit intent and compliance paths, such as the infill development perimeter rule.

Why not the other options?

* A. 25%: This is too low and does not meet the minimum threshold for infill development, which requires significant adjacency to

previously disturbed land to ensure compact, sustainable development.

* B. 50%: While closer, 50% still falls short of the 75% requirement, which is designed to prioritize sites fully integrated into existing developed areas.

* D. 100%: Requiring 100% of the perimeter to border previously disturbed land is overly restrictive and not specified in the LEED v4 or v4.1 requirements.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Location and Transportation Credit: Site Selection, p. 54.

LEED v4.1 Residential BD+C, USGBC LEED Credit Library, accessed via LEED Online (<https://www.usgbc.org/credits>).

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USGBC LEED for Homes Rating System (v4), available via USGBC website (<https://www.usgbc.org/resources/leed-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming alignment with v4 infill requirements.

NEW QUESTION # 53

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