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USGBC LEED-AP-Homes Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Regional Priority Credits: This section of the exam measures the skills of a Regional Performance Advisor. It covers specific environmental credits that reflect local priorities, enabling tailored certification strategies that align with regional ecosystems or regulatory contexts.
Topic 2	<ul style="list-style-type: none">Energy and Atmosphere: This section of the exam measures the skills of a Green Building Engineer. It includes evaluating the principles of energy efficiency, performance optimization, and emissions reduction in residential design, all critical to minimizing environmental impact while meeting occupant needs.
Topic 3	<ul style="list-style-type: none">Indoor Environmental Quality: This section of the exam measures the skills of an Architectural Designer. It addresses indoor air health, natural light, and ventilation requirements to ensure occupant comfort and durability, reflecting a home's capacity to provide a healthy and lasting living environment.

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USGBC LEED AP Homes (Residential) Exam Sample Questions (Q40-Q45):

NEW QUESTION # 40

In order to assess potential indoor humidity levels caused by locating a home in a warm, humid climate, which two factors should be considered by an engineer or HVAC contractor?

- A. Infiltration and ventilation
- B. Pressurization and dehumidification
- C. Ventilation and filtration
- D. Dehumidification and filtration

Answer: A

Explanation:

The LEED for Homes Rating System (v4) addresses indoor humidity in warm, humid climates through credits like Indoor

Environmental Quality (EQ) Credit: Enhanced Ventilation and EQ Prerequisite:

Ventilation, which consider factors affecting moisture levels to maintain indoor air quality.

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

EQ Credit: Enhanced Ventilation (1-3 points)

In warm, humid climates (e.g., climate zones 1-3), assess indoor humidity by considering infiltration (uncontrolled air leakage through the building envelope) and ventilation (controlled outdoor air introduction).

These factors influence moisture ingress and must be managed to prevent high humidity levels.

Source: LEED Reference Guide for Homes Design and Construction, v4, Indoor Environmental Quality Credit: Enhanced Ventilation, p. 146.

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

EQ Credit: Enhanced Ventilation

Infiltration and ventilation are critical factors in assessing indoor humidity in humid climates, as infiltration introduces moist outdoor air, and ventilation systems must be designed to manage humidity effectively.

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

The correct answer is infiltration and ventilation (Option A), as these are the primary factors affecting indoor humidity levels in a warm, humid climate, requiring careful design to control moisture.

Why not the other options?

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

C). Pressurization and dehumidification: While dehumidification is relevant, pressurization is less critical than infiltration control for humidity assessment. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Enhanced Ventilation, p. 146.

D). Dehumidification and filtration: Dehumidification is a solution, not a factor to assess, and filtration does not address humidity. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit:

Enhanced Ventilation, p. 146.

The LEED AP Homes Candidate Handbook emphasizes EQ credits, including humidity management, 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 infiltration and ventilation.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Indoor Environmental Quality Credit: Enhanced Ventilation, p. 146.

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 humidity assessment factors.

NEW QUESTION # 41

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

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

Answer: D

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 # 42

What are the benefits of rainwater harvesting in areas with substantial rainfall spikes?

- A. Little-to-no benefit since precipitation is seasonal
- B. Helps to offset air pollution
- **C. Keeps water out of storm sewers**
- D. Helps to maintain required firewater levels

Answer: C

Explanation:

The LEED for Homes Rating System (v4) addresses rainwater harvesting in the Sustainable Sites (SS) Credit: Rainwater Management, which aims to reduce runoff and manage stormwater on-site, particularly in areas with significant rainfall events. According to the LEED Reference Guide for Homes Design and Construction (v4):

SS Credit: Rainwater Management (1-3 points)

Implement rainwater harvesting systems (e.g., rain barrels, cisterns) to capture and store rainwater, reducing runoff volume and keeping water out of storm sewers. This is particularly beneficial in areas with substantial rainfall spikes, as it mitigates flooding and reduces strain on municipal stormwater systems.

Source: LEED Reference Guide for Homes Design and Construction, v4, Sustainable Sites Credit: Rainwater Management, p. 76.

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

SS Credit: Rainwater Management

Rainwater harvesting reduces runoff by capturing water on-site, preventing it from entering storm sewers, which is especially effective during heavy rainfall events.

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

The correct answer is keeps water out of storm sewers (Option C), as rainwater harvesting captures runoff, reducing the burden on stormwater infrastructure, particularly in areas with seasonal or substantial rainfall spikes.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Rainwater Management, p. 76.

B). Helps to maintain required firewater levels: Firewater systems are unrelated to rainwater harvesting, which is for non-potable uses like irrigation. Reference: No mention in LEED v4 for Homes; irrelevant to rainwater management.

D). Little-to-no benefit since precipitation is seasonal: Rainwater harvesting is highly beneficial during rainfall spikes, as it captures excess water for later use, contradicting this option. Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Rainwater Management, p. 76.

The LEED AP Homes Candidate Handbook emphasizes SS credits, including rainwater management, 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 rainwater harvesting benefits.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Sustainable Sites Credit: Rainwater Management, p. 76.

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/lead-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming rainwater harvesting benefits.

NEW QUESTION # 43

Within 1/2 mi. (0.8 km) of a project there are three restaurants, one school, two pharmacies, one church, and one grocery store. How many of the community resources listed above will contribute toward the Location and Transportation Credit, Community Resources?

- **A. Seven resources**
- B. Eight resources
- C. Five resources
- D. Six resources

Answer: A

Explanation:

The LEED for Homes Rating System (v4) includes the Location and Transportation (LT) Credit:

Community Resources and Services, which awards points based on the number of publicly accessible community services within 1/4 mile (0.4 km) for single-family homes or 1/2 mile (0.8 km) for multi-family projects. The question specifies a 1/2-mile radius, suggesting a multi-family context.

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

LT Credit: Community Resources and Services (1-2 points)

Earn 1 point for at least 4 community services or 2 points for 8 or more services within 1/2 mile (0.8 km) walking distance for multi-family projects. Qualifying services include restaurants, schools, pharmacies, grocery stores, and places of worship (e.g., churches), provided they are publicly accessible.

Source: LEED Reference Guide for Homes Design and Construction, v4, Location and Transportation Credit: Community Resources and Services, p. 56.

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

LT Credit: Community Resources and Services

Community services such as restaurants, schools, pharmacies, grocery stores, and churches within 1/2 mile (0.8 km) of a multi-family project count toward the credit if publicly accessible.

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

Evaluation of resources:

* Three restaurants: All qualify as community services.

* One school: Qualifies as a community service.

* Two pharmacies: Both qualify as community services.

* One church: Qualifies as a place of worship.

* One grocery store: Qualifies as a community service.

* Total: $3 + 1 + 2 + 1 + 1 = 7$ resources.

The correct answer is seven resources (Option C), as all listed services are publicly accessible and within 1/2 mile, contributing to the credit.

Why not the other options?

* A. Five resources: This undercounts the qualifying services (7 total).

* B. Six resources: This also undercounts the total (7).

Reference: LEED Reference Guide for Homes Design and Construction, v4, LT Credit: Community Resources and Services, p. 56.

The LEED AP Homes Candidate Handbook emphasizes LT credits, including Community Resources and Services, 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 counting community services.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Location and Transportation Credit: Community Resources and Services, p. 56.

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 community resources criteria.

NEW QUESTION # 44

Which of the following products could earn one point for being reclaimed under the Materials and Resources Credit, Environmentally Preferable Products?

- A. Stained glass window
- B. Brick for the home's exterior cladding
- C. Steel garage doors with opener
- D. Downspouts and gutters

Answer: A

Explanation:

The LEED for Homes Rating System (v4) awards points for the Materials and Resources (MR) Credit:

Environmentally Preferable Products when products are reclaimed (reused or salvaged from another project), contributing to the required percentage of material cost (e.g., 25% for 1 point).

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

MR Credit: Environmentally Preferable Products (1-4 points)

Use products that are reused or salvaged from the same or another project for at least 25% (by cost) of the total materials to earn 1

point. Reclaimed products include salvaged architectural elements like stained glass windows, which are reused in their original form. Source: LEED Reference Guide for Homes Design and Construction, v4, Materials and Resources Credit: Environmentally Preferable Products, p. 160.

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

MR Credit: Environmentally Preferable Products

Reclaimed materials, such as salvaged stained glass windows, qualify for points if they contribute to the required material cost percentage (e.g., 25% for 1 point).

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

The correct answer is stained glass window (Option A), as it is a salvaged architectural element commonly reused in its original form, qualifying as a reclaimed material under the credit.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160.

C). Steel garage doors with opener: Garage doors are usually new or refurbished, not reclaimed, and the opener is a mechanical component, not typically salvaged. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160.

D). Brick for the home's exterior cladding: While brick can be reclaimed (as in Question 42), it is not specified as salvaged here, unlike the stained glass window, which is a classic reclaimed item. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160.

The LEED AP Homes Candidate Handbook emphasizes MR credits, including reclaimed materials, 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 reclaimed architectural elements.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Materials and Resources Credit: Environmentally Preferable Products, p. 160.

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 reclaimed material criteria.

NEW QUESTION # 45

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