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## USGBC LEED-AP-Homes Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Location &amp; Transportation: This section of the exam measures the skills of an Environmental Planner. It focuses on how homes integrate with their surroundings and connect to transportation networks, emphasizing sustainable siting strategies aligned with urban planning practices.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Innovation: This section of the exam measures the skills of a Design Innovation Lead. It invites professionals to explore creative and exemplary strategies that surpass standard credits—such as pilot projects or pioneering sustainability solutions—demonstrating forward-thinking in residential design.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• Materials &amp; Resources: This section of the exam measures the skills of a Sustainability Specialist. It emphasizes the selection and management of eco-friendly materials, efficient usage of resources, and implementation of waste reduction strategies to support green residential construction.</li></ul>

Topic 5	<ul style="list-style-type: none"> <li>• <b>Regional Priority Credits:</b> 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.</li> </ul>
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### USGBC LEED AP Homes (Residential) Exam Sample Questions (Q28-Q33):

#### NEW QUESTION # 28

A developer is planning to build 40 single-family homes on a two-acre (0.8 hectare) site. Under the Location and Transportation Credit, Compact Development, what is the maximum number of points that the developer can achieve?

- A. Zero points
- B. One point
- C. Two points
- **D. Three points**

#### Answer: D

Explanation:

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

Compact Development, which awards points for higher-density development to reduce environmental impacts and promote efficient land use.

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

LT Credit: Compact Development (1-3 points)

Achieve the following dwelling unit densities (units per acre of buildable land):

\* 1 point: # 7 units per acre.

\* 2 points: # 12 units per acre.

\* 3 points: # 20 units per acre. Calculate density by dividing the number of dwelling units by the buildable land area (in acres). Source: LEED Reference Guide for Homes Design and Construction, v4, Location and Transportation Credit: Compact Development, p. 57.

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

LT Credit: Compact Development

For single-family homes, achieve 3 points by developing at least 20 dwelling units per acre on buildable land.

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

Calculation:

\* Site area: 2 acres (0.8 hectare).

\* Number of homes: 40 single-family homes.

\* Density: 40 units ÷ 2 acres = 20 units per acre.

\* This meets the threshold for 3 points (# 20 units per acre).

The correct answer is three points (Option D), as the density of 20 units per acre qualifies for the maximum points under the credit. Why not the other options?

\* A. Zero points: The density (20 units/acre) far exceeds the minimum threshold (7 units/acre).

\* B. One point: This applies to # 7 units/acre, below the project's density.

Reference: LEED Reference Guide for Homes Design and Construction, v4, LT Credit: Compact Development, p. 57. The LEED AP Homes Candidate Handbook emphasizes LT credits, including compact development, 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 density calculations.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Location and Transportation Credit: Compact Development, p. 57.

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 compact development points.

### NEW QUESTION # 29

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

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

**Answer: A**

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 Crating 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/leed-homes-design-and-construction-v4>).

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

### NEW QUESTION # 30

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

**Answer: D**

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 B), 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 # 31

In order to verify that environmentally preferable products are low-emitting, the project team must submit which of the following information?

- A. Distance from manufacturing facility to project site

- B. Cost of qualifying product as a percentage of total project cost
- C. Date of purchase
- **D. Product literature or certification labels**

**Answer: D**

Explanation:

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

Environmentally Preferable Products when products meet criteria such as low emissions (e.g., low-VOC paints or adhesives).

Verification requires documentation to confirm compliance.

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

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

To verify that products are low-emitting, submit product literature or certification labels (e.g., GREENGUARD, SCS Indoor Advantage) demonstrating compliance with low-VOC or low-emission standards. This documentation confirms that products meet the credit's requirements for indoor environmental quality.

Source: LEED Reference Guide for Homes Design and Construction, v4, Materials and Resources Credit:

Environmentally Preferable Products, p. 161.

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

MR Credit: Environmentally Preferable Products

Low-emitting products must be documented with product literature or third-party certification labels verifying compliance with VOC or emission standards.

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

The correct answer is product literature or certification labels (Option C), as these provide the necessary evidence to verify low-emitting properties.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 161.

B). Cost of qualifying product as a percentage of total project cost: Cost data is used for overall credit calculations, not low-emission verification. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160.

D). Distance from manufacturing facility to project site: This is relevant for Option 1: Local Production, not low-emission verification. 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 documentation requirements, 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 product literature.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Materials and Resources Credit: Environmentally Preferable Products, p. 160-161.

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 low-emission documentation.

## NEW QUESTION # 32

A proposed 1000 kWh photovoltaic system will achieve two points in the Energy and Atmosphere, Renewable Energy credit. If the client chooses a 2000 kWh system instead, how many points will be achieved?

- **A. Four points**
- B. Three points
- C. One point
- D. Two points

**Answer: A**

Explanation:

The LEED for Homes Rating System (v4) includes the Energy and Atmosphere (EA) Credit: Renewable Energy, which awards points

based on the percentage of annual energy use offset by on-site renewable energy systems, such as photovoltaic (PV) systems. According to the LEED Reference Guide for Homes Design and Construction (v4):

EA Credit: Renewable Energy (1-4 points)

Install on-site renewable energy systems to offset a percentage of the home's annual energy use. Points are awarded as follows:

\* 1 point: 0.5 kW or 5% of annual energy use.

\* 2 points: 1.0 kW or 10% of annual energy use.

\* 3 points: 1.5 kW or 15% of annual energy use.

\* 4 points: 2.0 kW or 20% of annual energy use. The kW values are for photovoltaic systems and assume typical production rates (e.g., 1 kW # 1,500 kWh/year). Source: LEED Reference Guide for Homes Design and Construction, v4, Energy and Atmosphere Credit: Renewable Energy, p. 138.

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

EA Credit: Renewable Energy

Points are awarded based on the installed capacity of PV systems (e.g., 2.0 kW for 4 points) or the percentage of energy offset, whichever is higher. A 2000 kWh system (approximately 2.0 kW) qualifies for 4 points.

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

The question states a 1000 kWh PV system earns 2 points, corresponding to approximately 1.0 kW (assuming 1 kW # 1,500 kWh/year). A 2000 kWh system is approximately 2.0 kW ( $2000 \div 1500 \approx 1.33$  kW, but conservatively aligned with the 2.0 kW threshold in LEED), which earns 4 points (Option D).

Why not the other options?

\* A. One point: This corresponds to 0.5 kW, far below a 2000 kWh system.

\* B. Two points: This is the baseline for a 1000 kWh (1.0 kW) system, not 2000 kWh.

Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Renewable Energy, p. 138.

The LEED AP Homes Candidate Handbook emphasizes EA credits, including renewable energy, 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 PV system sizing.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Energy and Atmosphere Credit: Renewable Energy, p. 138.

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 renewable energy points.

## NEW QUESTION # 33

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