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

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<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 3	<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 4	<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 5	<ul style="list-style-type: none"><li>LEED Process: This section of the exam measures the skills of a Green Building Consultant. It covers the comprehensive framework of the LEED Homes certification process, from understanding project eligibility and roles—such as green raters and quality assurance designees—to navigating certification requirements, the LEED verification process, and documentation submission to GBCI.</li></ul>

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## USGBC LEED AP Homes (Residential) Exam Sample Questions (Q44-Q49):

### NEW QUESTION # 44

A single-family home meets the Indoor Environmental Quality Credit Prerequisite, Ventilation using a continuous exhaust strategy. Which of the following Indoor Environmental Quality credits are potential credit synergies?

- A. Contaminant Control
- B. Radon Control
- C. Enhanced Combustion Venting
- **D. Enhanced Ventilation**

**Answer: D**

Explanation:

The LEED for Homes Rating System (v4) requires the Indoor Environmental Quality (EQ) Prerequisite:

Ventilation, which can be met using a continuous exhaust strategy to provide adequate outdoor air. Certain EQ credits have synergies with this prerequisite, enhancing ventilation performance or indoor air quality.

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

EQ Credit: Enhanced Ventilation (1-3 points)

Projects that meet the ventilation prerequisite using a continuous exhaust strategy can pursue the Enhanced Ventilation credit by providing additional outdoor air, improving air distribution, or installing advanced filtration systems. This credit builds on the prerequisite by optimizing ventilation performance.

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

This credit synergizes with the ventilation prerequisite by offering points for exceeding minimum ventilation requirements, such as increasing outdoor air rates or using high-efficiency filters in continuous exhaust systems.

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

The Enhanced Ventilation credit (Option D) is a direct synergy with the continuous exhaust strategy, as it builds on the prerequisite by improving ventilation rates, distribution, or filtration.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Radon Control, p. 150.

B). Contaminant Control: This credit addresses source control (e.g., low-VOC materials, entryway systems), which complements ventilation but is not a direct synergy with continuous exhaust. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Contaminant Control, p. 148.

C). Enhanced Combustion Venting: This credit focuses on combustion equipment safety (e.g., sealed combustion appliances), which is unrelated to exhaust ventilation strategies. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Enhanced Combustion Venting, p. 144.

The LEED AP Homes Candidate Handbook emphasizes EQ credits, including ventilation synergies, 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 Enhanced 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 ventilation credit synergies.

### NEW QUESTION # 45

If the roof sheathing of a home is constructed of certified lumber approved for LEED, under what circumstances can points be earned?

- A. No points are earned because certified lumber is a prerequisite
- B. If the certified content is greater than 45%
- **C. If the certified content is greater than 90%**
- D. If the certified wood is sourced from a 600 mi. (966 km) radius

**Answer: C**

Explanation:

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

Environmentally Preferable Products when using certified lumber, specifically Forest Stewardship Council (FSC)-certified wood, which contributes to the required percentage of material cost.

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

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

Use FSC-certified wood for at least 25% (1 point), 50% (2 points), or 90% (3-4 points) by cost of the total materials. For specific material categories like roof sheathing, at least 90% of the component (by cost) must be FSC-certified to significantly contribute to the credit.

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

Environmentally Preferable Products, p. 160-161.

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

MR Credit: Environmentally Preferable Products

Points are awarded for FSC-certified lumber if it constitutes at least 90% of a specific component like roof sheathing (by cost) to meet higher point thresholds (e.g., 3-4 points). Certified lumber is not a prerequisite; it contributes to the credit.

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

The correct answer is if the certified content is greater than 90% (Option B), as this ensures the roof sheathing significantly contributes to the credit's material cost threshold for points.

Why not the other options?

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

C). If the certified wood is sourced from a 600 mi. (966 km) radius: Local sourcing (within 100 miles) is relevant for Option 1: Local Production, not FSC certification. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit:

Environmentally Preferable Products, p. 160.

D). No points are earned because certified lumber is a prerequisite: Certified lumber is not a prerequisite; MR Prerequisite: Certified Tropical Wood applies only to tropical wood, not all lumber. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Prerequisite: Certified Tropical Wood, p. 156.

The LEED AP Homes Candidate Handbook emphasizes MR credits, including certified lumber, 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 FSC certification thresholds.

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 certified lumber criteria.

## NEW QUESTION # 46

The project team is planning trades training to meet requirements for the Integrative Process Credit, Option 2: Trades Training. How many hours are required to earn this credit?

- A. Eight hours
- B. Six hours
- C. Ten hours
- **D. Four hours**

**Answer: D**

Explanation:

The LEED for Homes Rating System (v4) includes the Integrative Process (IP) Credit: Integrative Process, Option 2: Trades Training, which requires training for construction trades to ensure proper implementation of green building strategies.

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

IP Credit: Integrative Process, Option 2: Trades Training (1 point)

Provide at least four hours of training for construction trades involved in the project to educate them on LEED requirements, green building strategies, and proper installation techniques for sustainable systems and materials.

Source: LEED Reference Guide for Homes Design and Construction, v4, Integrative Process Credit:

Integrative Process, p. 45.

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

IP Credit: Integrative Process, Option 2: Trades Training

A minimum of four hours of trades training is required to ensure that contractors understand and correctly implement green building measures, earning the credit.

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

The correct answer is four hours (Option A), as this is the minimum duration required for trades training to earn the credit.

Why not the other options?

\* B. Six hours: This exceeds the minimum requirement of four hours.

\* C. Eight hours: This is unnecessarily long for the credit's requirement.

Reference: LEED Reference Guide for Homes Design and Construction, v4, IP Credit: Integrative Process, p. 45.

The LEED AP Homes Candidate Handbook emphasizes IP credits, including trades training, 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 the four-hour requirement.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Integrative Process Credit:

Integrative Process, p. 45.

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 trades training duration.

#### NEW QUESTION # 47

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

**Answer: B**

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 # 48

The minimum required outdoor air ventilation is calculated based on the conditioned floor area of the home and the:

- A. Number of bedrooms
- B. Number of bathrooms
- C. Number of full-time occupants
- D. Volume of the home

**Answer: A**

Explanation:

The LEED for Homes Rating System (v4) addresses minimum outdoor air ventilation in the Indoor Environmental Quality (EQ)

Prerequisite: Ventilation, using ASHRAE Standard 62.2-2010 to determine ventilation rates based on conditioned floor area and the number of bedrooms.

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

EQ Prerequisite: Ventilation

Meet the minimum outdoor air ventilation requirements of ASHRAE Standard 62.2-2010, which calculates ventilation rates based on the conditioned floor area of the home and the number of bedrooms (as a proxy for occupancy). The formula is: Ventilation rate (cfm) =  $0.01 \times \text{floor area (ft}^2\text{)} + 7.5 \times (\text{number of bedrooms} + 1)$ .

Source: LEED Reference Guide for Homes Design and Construction, v4, Indoor Environmental Quality Prerequisite: Ventilation, p. 142.

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

EQ Prerequisite: Ventilation

Ventilation rates are determined using ASHRAE 62.2-2010, based on conditioned floor area and the number of bedrooms, which accounts for typical occupancy levels.

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

The correct answer is number of bedrooms (Option B), as ASHRAE 62.2-2010 uses this alongside conditioned floor area to calculate ventilation requirements.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Prerequisite: Ventilation, p. 142.

C). Number of bathrooms: Bathrooms influence local exhaust requirements, not whole-house ventilation rates. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Enhanced Ventilation, p. 146.

D). Number of full-time occupants: While occupancy affects ventilation needs, ASHRAE 62.2-2010 uses bedrooms as a proxy, not



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