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## LEED-AP-Homes Trustworthy Source | Exam LEED-AP-Homes Guide

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

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<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 4	<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>

## USGBC LEED AP Homes (Residential) Exam Sample Questions (Q65-Q70):

### NEW QUESTION # 65

The first consideration in solar home design is to:

- A. Orient the building
- B. Select windows
- C. Size solar shading
- D. Incorporate thermal mass

### Answer: A

Explanation:

The LEED for Homes Rating System (v4) encourages passive solar design strategies in the Energy and Atmosphere (EA) category, particularly in EA Credit: Optimize Energy Performance or EA Prerequisite:

Minimum Energy Performance, to maximize energy efficiency through site and building design.

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

EA Credit: Optimize Energy Performance

The first step in solar home design is to orient the building to maximize solar exposure for passive heating, daylighting, and potential active solar systems. Proper orientation (e.g., south-facing in the Northern Hemisphere) optimizes energy performance before other strategies like window selection or shading.

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

Building orientation is the primary consideration in solar design, as it determines the effectiveness of passive solar strategies and energy efficiency measures.

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

The first consideration in solar home design is to orient the building (Option D), typically to maximize south-facing exposure (in the Northern Hemisphere) to optimize passive solar heating, daylighting, and solar energy potential.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Windows, p. 122.

B). Size solar shading: Shading is designed after orientation to manage solar gain. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Optimize Energy Performance, p. 118.

C). Incorporate thermal mass: Thermal mass is a secondary strategy to store heat after orientation is optimized. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Optimize Energy Performance, p. 118.

The LEED AP Homes Candidate Handbook emphasizes EA credits, including solar 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 building orientation.

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 solar design priorities.

## NEW QUESTION # 66

What strategy should a team take in order to use tropical wood in their LEED registered project?

- A. Use tropical wood that is FSC-certified
- B. No strategy can be used because tropical wood cannot be used in a LEED project
- C. Use any regional tropical wood that is not FSC-certified
- D. Conduct a life-cycle assessment (LCA) to demonstrate that the materials used in the project comply with the intent of the prerequisite

**Answer: A**

Explanation:

The LEED for Homes Rating System (v4) includes the Materials and Resources (MR) Prerequisite:

Certified Tropical Wood, which regulates the use of tropical wood to prevent unsustainable harvesting from ecologically sensitive regions.

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

MR Prerequisite: Certified Tropical Wood

All new wood in the project must be nontropical, reused, reclaimed, or certified by the Forest Stewardship Council (FSC). If tropical wood is used, it must be FSC-certified to ensure it is sourced from sustainably managed forests.

Source: LEED Reference Guide for Homes Design and Construction, v4, Materials and Resources Prerequisite: Certified Tropical Wood, p. 156.

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

MR Prerequisite: Certified Tropical Wood

Tropical wood, if used, must be FSC-certified to comply with the prerequisite. This ensures responsible forestry practices in tropical regions.

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

The most effective strategy is to use tropical wood that is FSC-certified (Option A), as this complies with the prerequisite and allows tropical wood in the project while ensuring sustainable sourcing.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Prerequisite: Certified Tropical Wood, p. 156.

C). Use any regional tropical wood that is not FSC-certified: Non-FSC-certified tropical wood does not comply with the prerequisite, as it risks unsustainable sourcing. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Prerequisite: Certified Tropical Wood, p. 156.

D). Conduct a life-cycle assessment (LCA) to demonstrate that the materials used in the project comply with the intent of the prerequisite: An LCA is not an acceptable compliance path for this prerequisite, which explicitly requires FSC certification for tropical wood. 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 prerequisites, including Certified Tropical Wood, 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.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Materials and Resources Prerequisite: Certified Tropical Wood, p. 156.

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

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 FSC certification requirement.

## NEW QUESTION # 67

For a one-bedroom unit in a multi-family building, the minimum bathroom airflow requirement for intermittent local exhaust is:

- A. 25 cfm (11 lps)
- B. 2 cfm per ft<sup>2</sup> (10.16 lps per m<sup>2</sup>)
- **C. 50 cfm (23 lps)**
- D. 1 cfm per ft<sup>2</sup> (5.08 lps per m<sup>2</sup>)

**Answer: C**

Explanation:

The LEED for Homes Rating System (v4) addresses bathroom ventilation requirements in the Indoor Environmental Quality (EQ) Prerequisite: Ventilation, which references ASHRAE Standard 62.2-2010 for minimum airflow rates in residential buildings, including multi-family units.

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

EQ Prerequisite: Ventilation

For intermittent local exhaust in bathrooms, ASHRAE Standard 62.2-2010 requires a minimum airflow rate of 50 cfm (23 lps) for each bathroom to effectively remove moisture and pollutants. This applies to all dwelling units, including one-bedroom units in multi-family buildings.

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

Intermittent local exhaust in bathrooms must provide at least 50 cfm (23 lps) per ASHRAE 62.2-2010 to ensure adequate ventilation in multi-family units.

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

The correct answer is 50 cfm (23 lps) (Option B), as this is the minimum airflow requirement for intermittent bathroom exhaust in a one-bedroom unit per ASHRAE 62.2-2010.

Why not the other options?

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

C. 1 cfm per ft<sup>2</sup> (5.08 lps per m<sup>2</sup>): Bathroom exhaust is not based on floor area but on a fixed rate (50 cfm for intermittent systems). Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Prerequisite: Ventilation, p. 142.

D. 2 cfm per ft<sup>2</sup> (10.16 lps per m<sup>2</sup>): This is also not based on floor area and is incorrect for bathroom exhaust requirements. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Prerequisite: Ventilation, p. 142.

The LEED AP Homes Candidate Handbook emphasizes EQ prerequisites, including ventilation 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 ASHRAE 62.2-2010.

References:

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

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 bathroom exhaust requirements.

## NEW QUESTION # 68

A project team plans to use certified lumber for all the floors on a project. Which of the following measures does the builder need to take to achieve points that contribute to Materials and Resources Credit, Environmentally Preferable Products?

- A. Notify all suppliers of project requirement for Forest Stewardship Council (FSC) certified lumber
- B. Purchase all lumber from Sustainable Forestry Initiative (SFI) certified mills
- **C. Collect all vendor chain of custody (COC) certificates to document the use of FSC certified materials**
- D. Include Sustainable Forestry Initiative (SFI) certified lumber in all plans and specifications

**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 ensures sustainable forestry practices. Documentation is critical to verify compliance.

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

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

Use products that meet one or more of the following criteria for at least 25%, 50%, or 90% (by cost) of the total materials:

\* FSC-certified wood: Wood products certified by the Forest Stewardship Council. Projects must provide chain of custody (COC) certificates from vendors to document that the wood is FSC-certified, verifying sustainable sourcing. 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

To earn points for FSC-certified wood, projects must collect chain of custody (COC) certificates from suppliers to document that the lumber meets FSC standards.

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

To achieve points, the builder must collect all vendor chain of custody (COC) certificates to document the use of FSC certified materials (Option D). COC certificates trace the wood from FSC-certified forests to the project, ensuring compliance with the credit's requirements.

Why not the other options?

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

B). Include Sustainable Forestry Initiative (SFI) certified lumber in all plans and specifications: SFI is not acceptable for this credit, and plans alone do not verify actual use; COC documentation is required.

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

C). Notify all suppliers of project requirement for Forest Stewardship Council (FSC) certified lumber:

Notification is a good practice but insufficient without COC certificates to document compliance. Reference:

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

The LEED AP Homes Candidate Handbook emphasizes MR credits, including Environmentally Preferable Products, 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 COC documentation.

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 FSC documentation requirements.

## NEW QUESTION # 69

What is the prerequisite for landscaping in Sustainable Sites?

- A. Replace known invasive plants
- B. Use plants native to the region
- C. Select plants qualifying as drought tolerant
- **D. Introduce no invasive plant species**

## Answer: D

Explanation:

The LEED for Homes Rating System (v4) includes the Sustainable Sites (SS) Prerequisite: Site Development - Protect or Restore Habitat, which sets requirements for landscaping to protect local ecosystems. A key aspect is preventing the introduction of invasive plant species that can harm biodiversity.

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

SS Prerequisite: Site Development - Protect or Restore Habitat

Do not introduce any invasive plant species into the landscape. Invasive species are defined as those that are non-native and whose introduction causes or is likely to cause environmental harm.

Source: LEED Reference Guide for Homes Design and Construction, v4, Sustainable Sites Prerequisite: Site Development - Protect or Restore Habitat, p. 72.

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

SS Prerequisite: Site Development - Protect or Restore Habitat

The project must not use invasive plant species in landscaping to protect native ecosystems and prevent ecological disruption.

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

The prerequisite requires that projects introduce no invasive plant species (Option C) to ensure landscaping supports local biodiversity and ecosystem health.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Site Development - Protect or Restore Habitat, p. 74.

B). Use plants native to the region: Native plants are encouraged in credits (e.g., WE Credit: Outdoor Water Use or SS Credit: Site Development), but the prerequisite only mandates avoiding invasive species. Reference:

LEED Reference Guide for Homes Design and Construction, v4, SS Prerequisite: Site Development - Protect or Restore Habitat, p. 72.

D). Select plants qualifying as drought tolerant: Drought-tolerant plants are relevant to WE Credit:

Outdoor Water Use, not the SS prerequisite. Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Outdoor Water Use, p. 98.

The LEED AP Homes Candidate Handbook emphasizes SS prerequisites, including landscaping 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 the invasive species requirement.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Sustainable Sites Prerequisite: Site Development - Protect or Restore Habitat, p. 72.

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).

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LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming invasive species prohibition.

## NEW QUESTION # 70

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