

# LEED-AP-Homes Valid Test Experience & Valid LEED-AP-Homes Exam Testking



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## USGBC LEED AP Homes (Residential) Exam Sample Questions (Q26-Q31):

### NEW QUESTION # 26

Introduction of outdoor air works to improve indoor air quality by:

- A. Pressurization
- B. Source removal
- C. Source control
- **D. Dilution**

### Answer: D

Explanation:

The LEED for Homes Rating System (v4) addresses indoor air quality in the Indoor Environmental Quality (EQ) Prerequisite: Ventilation and EQ Credit: Enhanced Ventilation, which require outdoor air to improve indoor air quality by reducing pollutant concentrations.

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

EQ Prerequisite: Ventilation

Introduce outdoor air to dilute indoor pollutants, improving air quality by reducing the concentration of contaminants such as volatile organic compounds (VOCs) and carbon dioxide.

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

Outdoor air ventilation dilutes indoor pollutants, ensuring a healthier indoor environment by lowering contaminant levels.

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

The introduction of outdoor air improves indoor air quality primarily through dilution (Option A), as it mixes with indoor air to reduce pollutant concentrations.

Why not the other options?

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

C). Pressurization: Pressurization controls air movement (e.g., to prevent infiltration), not the primary mechanism for improving air quality via outdoor air. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Enhanced Ventilation, p. 146.

D). Source removal: This involves physically removing pollutant sources, not a function of outdoor air introduction. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit:

Contaminant Control, p. 148.

The LEED AP Homes Candidate Handbook emphasizes EQ prerequisites and credits, including ventilation strategies, 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 dilution.

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 ventilation strategies.

### NEW QUESTION # 27

Energy simulation software used for ENERGY STAR Homes certification is approved by the:

- A. Department of Energy (DOE)
- **B. Residential Energy Services Network (RESNET)**
- C. U.S. Green Building Council (USGBC)

- D. Environmental Protection Agency (EPA)

**Answer: B**

Explanation:

The LEED for Homes Rating System (v4) integrates ENERGY STAR Homes certification as part of the Energy and Atmosphere (EA) category, specifically for the EA Prerequisite: Minimum Energy Performance and EA Credit: Annual Energy Use. ENERGY STAR Homes certification requires energy simulation software to model the home's performance, and this software must be approved by a specific authority.

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

EA Prerequisite: Minimum Energy Performance

Projects pursuing ENERGY STAR for Homes certification must use energy simulation software accredited by the Residential Energy Services Network (RESNET) to demonstrate compliance with ENERGY STAR performance requirements.

Source: LEED Reference Guide for Homes Design and Construction, v4, Energy and Atmosphere Prerequisite: Minimum Energy Performance, p. 112.

The Residential Energy Services Network (RESNET) is the organization responsible for accrediting energy modeling software used for ENERGY STAR Homes certification, such as REM/Rate or Ekotrope. RESNET establishes standards for Home Energy Rating Systems (HERS) and ensures software accuracy for energy performance calculations.

The LEED v4.1 Residential BD+C rating system aligns with this:

EA Prerequisite: Energy Performance

ENERGY STAR Homes certification requires the use of RESNET-accredited energy modeling tools to verify performance targets, such as HERS index scores.

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

While the Environmental Protection Agency (EPA) oversees the ENERGY STAR program, it does not directly approve the simulation software; that responsibility lies with RESNET.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Prerequisite: Minimum Energy Performance, p. 112.

B). U.S. Green Building Council (USGBC): The USGBC administers LEED but does not approve ENERGY STAR software. It references ENERGY STAR requirements in LEED credits. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Prerequisite: Minimum Energy Performance, p. 112.

C). Environmental Protection Agency (EPA): The EPA manages ENERGY STAR but delegates software accreditation to RESNET for consistency in HERS ratings. Reference: ENERGY STAR Residential New Construction Program Requirements, accessed via [www.energystar.gov](http://www.energystar.gov).

The LEED AP Homes Candidate Handbook emphasizes EA prerequisites and credits, including ENERGY STAR integration, 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 RESNET's role.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Energy and Atmosphere Prerequisite: Minimum Energy Performance, p. 112.

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>).

RESNET Standards, accessed via [www.resnet.us](http://www.resnet.us), confirming software accreditation.

### NEW QUESTION # 28

A project team is pursuing Water Efficiency Credit, Outdoor Water Use. The site contains a total of 57,500 ft<sup>2</sup> (5,342 m<sup>2</sup>) of softscape.

What ratio of turf grass and native or adapted landscape is required to achieve four points for this credit? (Refer to the table below)

Turf grass area Native or adapted plant area Points

< 60%

> 25%

1

< 40%

> 50%

2

< 20%

> 75%

3

< 5%

> 75%

4

- A. 12,600 ft<sup>2</sup> (1,171 m<sup>2</sup>) turf grass and 40,000 ft<sup>2</sup> (3,716 m<sup>2</sup>) native or adapted landscape
- B. 2,500 ft<sup>2</sup> (232 m<sup>2</sup>) turf grass and 44,000 ft<sup>2</sup> (4,088 m<sup>2</sup>) native or adapted landscape
- C. 4,500 ft<sup>2</sup> (418 m<sup>2</sup>) turf grass and 44,000 ft<sup>2</sup> (4,088 m<sup>2</sup>) native or adapted landscape
- D. 11,500 ft<sup>2</sup> (1,068 m<sup>2</sup>) turf grass and 40,000 ft<sup>2</sup> (3,716 m<sup>2</sup>) native or adapted landscape

**Answer: B**

**Explanation:**

The LEED for Homes Rating System (v4) includes the Water Efficiency (WE) Credit: Outdoor Water Use, which awards points based on the ratio of turf grass (high water use) to native or adapted plants (low water use) in the softscape to reduce irrigation needs.

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

WE Credit: Outdoor Water Use (1-4 points)

Reduce outdoor water use by selecting native or adapted plants and limiting turf grass. Points are awarded based on the percentage of softscape area:

\* < 5% turf grass and > 75% native or adapted plants: 4 points. The total softscape area is used to calculate the percentages of turf grass and native/adapted plants. Source: LEED Reference Guide for Homes Design and Construction, v4, Water Efficiency Credit: Outdoor Water Use, p. 98-99.

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

WE Credit: Outdoor Water Use

Achieve 4 points by ensuring less than 5% of the softscape is turf grass and more than 75% is native or adapted plants, based on area calculations.

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

Calculation for 4 points:

\* Total softscape area: 57,500 ft<sup>2</sup>.

\* For 4 points:

\* Turf grass: < 5% of 57,500 ft<sup>2</sup> = <  $0.05 \times 57,500 = < 2,875$  ft<sup>2</sup>.

\* Native or adapted plants: > 75% of 57,500 ft<sup>2</sup> = >  $0.75 \times 57,500 = > 43,125$  ft<sup>2</sup>.

Evaluate options:

\* A. 12,600 ft<sup>2</sup> turf grass and 40,000 ft<sup>2</sup> native or adapted:

\* Turf grass:  $12,600 / 57,500 = 21.91\%$  (> 5%).

\* Native:  $40,000 / 57,500 = 69.57\%$  (< 75%).

\* Does not meet 4-point criteria (only qualifies for 1 point: < 60% turf, > 25% native).

\* B. 11,500 ft<sup>2</sup> turf grass and 40,000 ft<sup>2</sup> native or adapted:

\* Turf grass:  $11,500 / 57,500 = 20\%$  (> 5%).

\* Native:  $40,000 / 57,500 = 69.57\%$  (< 75%).

\* Does not meet 4-point criteria (qualifies for 2 points: < 40% turf, > 50% native).

\* C. 2,500 ft<sup>2</sup> turf grass and 44,000 ft<sup>2</sup> native or adapted:

\* Turf grass:  $2,500 / 57,500 = 4.35\%$  (< 5%).

\* Native:  $44,000 / 57,500 = 76.52\%$  (> 75%).

\* Meets 4-point criteria.

\* D. 4,500 ft<sup>2</sup> turf grass and 44,000 ft<sup>2</sup> native or adapted:

\* Turf grass:  $4,500 / 57,500 = 7.83\%$  (> 5%).

\* Native:  $44,000 / 57,500 = 76.52\%$  (> 75%).

\* Does not meet 4-point criteria (qualifies for 3 points: < 20% turf, > 75% native).

Answer Option C (2,500 ft<sup>2</sup> turf grass and 44,000 ft<sup>2</sup> native or adapted landscape) meets the requirements for 4 points.

The LEED AP Homes Candidate Handbook emphasizes WE credits, including outdoor water use, 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 table's criteria.

**References:**

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Water Efficiency Credit:

Outdoor Water Use, p. 98-99.

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 softscape ratios.

### NEW QUESTION # 29

In order for a LEED home to earn a point for Materials and Resources Credit, Environmentally Preferable Products, what minimum amount of insulation must be reclaimed or salvaged?

- A. 80%
- B. 70%
- C. 100%
- **D. 90%**

### Answer: D

Explanation:

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

Environmentally Preferable Products when materials, including insulation, meet sustainable criteria such as being reclaimed or salvaged. The credit calculates compliance based on the percentage of total material cost.

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% (1 point), 50% (2 points), or 90% (3-4 points) by cost of the total materials:

\* Reused or salvaged materials, such as reclaimed insulation. For specific material categories like insulation, at least 90% of the insulation (by cost) must be reclaimed, salvaged, or meet other environmentally preferable criteria to contribute significantly 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 Crating system confirms:

MR Credit: Environmentally Preferable Products

To earn points, insulation must meet environmentally preferable criteria (e.g., 90% reclaimed or salvaged by cost) to contribute to the overall material cost percentage (25%, 50%, or 90%).

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

For insulation to contribute to earning a point under this credit, a minimum of 90% (by cost) must be reclaimed or salvaged (Option C), aligning with the credit's threshold for significant material contributions.

Why not the other options?

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

B). 80%: This is also below the 90% threshold and insufficient for insulation to qualify. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 161.

D). 100%: While 100% would qualify, the minimum requirement is 90%, making this option unnecessarily strict. 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 the 90% threshold.

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 insulation criteria.

### NEW QUESTION # 30

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. Conduct a life-cycle assessment (LCA) to demonstrate that the materials used in the project comply with the intent of the prerequisite
- D. Use any regional tropical wood that is not FSC-certified

**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>).

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 # 31

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Our company is thoroughly grounded in our values. They begin with a prized personal and organizational quality--Integrity--and end with a shared concern for the candidates who are preparing for the LEED-AP-Homes exam. Our values include Innovation, Teamwork, Customer Focus, and Respect for Customers. These values guide every decision we make, everywhere we make them. As you can sense by now, and we really hope that you can be the next beneficiary of our LEED-AP-Homes Training Materials.

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