

# LEED-AP-Homes Testking Exam Questions & VCE LEED-AP-Homes Dumps

## LEED v4 AP BD+C PRACTICE TEST #1 | 100 QUESTIONS| WITH CORRECT ANSWERS!!

\*#\* A project's total site area is 280,000 SF (26,000 m2). The total previously developed area on site is 100,000 SF (9,290 m2). The building FAR is 1.7. How much financial support would an owner have to provide to earn SS credit Site Development - Protect or Restore Habitat?

- A) \$112,000
- B) \$72,000
- C) \$122,400
- D) \$40,000 Answer - A) \$112,000

\*Feedback:\*

This type of question will likely include additional, extraneous information to cause confusion. For Option 2 Financial Support, the requirement is as follows:

\$0.40/SF (\$4/m2) for the total site area including the building footprint.

$$280,000 \times \$0.40 = \$112,000$$

\*#\* Which "non-mandatory" steps could a project team take prior to conducting air-quality testing that would "improve" the test results for EQ Credit IAQ Assessment? (Choose 2)

- A) Vacuum using a vacuum cleaner with filtration media.
  - B) Test and balance the HVAC system
  - C) Install finishes and furniture
  - D) Clean with low-emitting cleaning products
  - E) Complete punch-list items that would generate VOCs or other contaminants.
- Answer - A) Vacuum using a vacuum cleaner with filtration media.  
D) Clean with low-emitting cleaning products

\*Notes:\*

Here are the required steps before a flush-out or air testing:  
Install all finishes and furniture  
For residential projects, install owner-provided furniture  
Complete punch-list items that would generate VOCs or other contaminants  
Test and balance the HVAC system

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

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>• <b>LEED Process:</b> 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>
Topic 2	<ul style="list-style-type: none"> <li>• <b>Materials &amp; Resources:</b> 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>• <b>Innovation:</b> 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>• <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>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Energy and Atmosphere:</b> 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>

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## VCE LEED-AP-Homes Dumps & LEED-AP-Homes Reliable Dump

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## USGBC LEED AP Homes (Residential) Exam Sample Questions (Q43-Q48):

### NEW QUESTION # 43

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

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

**Answer: B**

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 # 44

A shower stall was installed adjacent to an exterior wall prior to insulation installation. What is the impact to LEED for Homes certification?

- A. The overall R-value of the home's insulation must be increased to compensate for the deficit
- B. The home energy model must include this feature so the HERS index score reflects it
- **C. The home cannot be LEED certified until the walls are insulated in compliance with the Thermal Enclosure Checklist**
- D. The prescriptive path for Energy and Atmosphere cannot be used

**Answer: C**

Explanation:

The LEED for Homes Rating System (v4) includes the Energy and Atmosphere (EA) Prerequisite:

Minimum Energy Performance, which requires compliance with the Thermal Enclosure System Checklist to ensure proper insulation and airtightness for energy efficiency.

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

EA Prerequisite: Minimum Energy Performance

The project must comply with the Thermal Enclosure System Checklist, which requires that all exterior walls be fully insulated to meet or exceed specified R-values before other components (e.g., shower stalls) are installed. Insulation must be installed behind shower stalls or other fixtures adjacent to exterior walls to prevent thermal bridging and ensure compliance. Non-compliance with the checklist prevents certification until corrected.

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

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

EA Prerequisite: Energy Performance

All exterior walls must be insulated in accordance with the Thermal Enclosure System Checklist. If components like shower stalls are installed before insulation, the home cannot be certified until the walls are properly insulated to meet the checklist requirements.

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

The correct answer is the home cannot be LEED certified until the walls are insulated in compliance with the Thermal Enclosure Checklist (Option D), as installing a shower stall before insulation violates the prerequisite's requirement for proper insulation installation.

Why not the other options?

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

B). The home energy model must include this feature so the HERS index score reflects it: The HERS model assumes proper insulation; the issue is a construction error, not a modeling requirement. Reference:

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

C). The overall R-value of the home's insulation must be increased to compensate for the deficit:

Increasing R-value elsewhere does not address the specific checklist requirement for insulation behind the shower stall. Reference:

LEED Reference Guide for Homes Design and Construction, v4, EA Prerequisite:

Minimum Energy Performance, p. 112.

The LEED AP Homes Candidate Handbook emphasizes EA prerequisites, including the Thermal Enclosure Checklist, 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 insulation compliance.

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>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming insulation checklist requirements.

### NEW QUESTION # 45

Which of the following team members must attend the entire meeting to earn the Trades Training Credit?

- A. Site supervisor or superintendent
- B. Project architect
- C. Mechanical contractor
- D. Air sealing and insulation contractor

**Answer: C**

Explanation:

The LEED for Homes Rating System (v4) includes the Integrative Process (IP) Credit: Integrative Process, Option 2: Trades Training, which requires training for key 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)

The mechanical contractor (responsible for HVAC systems) must attend the entire four-hour training session to ensure proper installation and operation of energy-efficient systems critical to LEED compliance. Other trades, such as air sealing and insulation contractors, are also encouraged but not explicitly required to attend the full session.

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

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

IP Credit: Integrative Process, Option 2: Trades Training

The mechanical contractor, as a key trade responsible for energy-related systems, must participate fully in the four-hour training to meet the credit requirements, ensuring expertise in sustainable HVAC installation.

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

The correct answer is mechanical contractor (Option B), as their full attendance is critical due to the importance of HVAC systems in achieving LEED energy goals.

Why not the other options?

\* A. Project architect: Architects are part of the design team, not typically required for trades training.

\* C. Site supervisor or superintendent: While important, they oversee general construction, not specific system installation.

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 mechanical contractor attendance.

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 requirements.

#### NEW QUESTION # 46

What is the minimum number of required hours the project team must meet in order to earn the Integrative Process Credit, Option 2: Design Charrette?

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

**Answer: D**

Explanation:

The LEED for Homes Rating System (v4) includes the Integrative Process (IP) Credit: Integrative Process, Option 2: Design Charrette, which requires a collaborative meeting to integrate green strategies early in the design process.

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

IP Credit: Integrative Process, Option 2: Design Charrette (1 point)

Conduct a design charrette with the project team lasting at least four hours to identify and integrate green strategies across all aspects of the building design, including energy, water, materials, and indoor environmental quality.

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: Design Charrette

The project team must hold a design charrette of at least four hours to collaboratively develop sustainable design strategies.

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 the design charrette 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 the design charrette, 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 charrette duration.

#### NEW QUESTION # 47

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. 100%
- B. 80%
- C. 70%
- **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 # 48

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