

Get Latest USGBC LEED-AP-Homes Practice Test For Quick Preparation



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It is universally accepted that in this competitive society in order to get a good job we have no choice but to improve our own capacity and explore our potential constantly, and try our best to get the related LEED-AP-Homes certification is the best way to show our professional ability, however, the exam is hard nut to crack and there are so many LEED-AP-Homes Preparation questions related to the exam, it seems impossible for us to systematize all of the key points needed for the exam by ourselves.

USGBC LEED-AP-Homes Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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.
Topic 2	<ul style="list-style-type: none">Location & 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.
Topic 3	<ul style="list-style-type: none">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.
Topic 4	<ul style="list-style-type: none">Materials & 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.

Topic 5	<ul style="list-style-type: none"> 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.
Topic 6	<ul style="list-style-type: none"> 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.

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2025 Free LEED-AP-Homes Test Questions | Reliable Test LEED-AP-Homes Questions Answers: LEED AP Homes (Residential) Exam

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USGBC LEED AP Homes (Residential) Exam Sample Questions (Q97-Q102):

NEW QUESTION # 97

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).

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 invasive species prohibition.

NEW QUESTION # 98

The first consideration in solar home design is to:

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

Answer: B

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>).

/resources/leed-homes-design-and-construction-v4).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming solar design priorities.

NEW QUESTION # 99

How many Regional Priority Credits can a LEED for Homes v4 project pursue?

- A. Four
- B. Three
- C. Two
- D. One

Answer: A

Explanation:

The LEED for Homes Rating System (v4) includes Regional Priority (RP) Credits, which provide bonus points for addressing location-specific environmental priorities. A project can pursue multiple RP credits based on its geographic location.

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

Regional Priority Credits (1-4 points)

A LEED for Homes v4 project can pursue up to four Regional Priority Credits, which are selected based on the project's location and the environmental priorities identified for that region. Each RP credit awards one bonus point for achieving a designated existing credit that addresses regional environmental concerns.

Source: LEED Reference Guide for Homes Design and Construction, v4, Regional Priority Credits, p. 190.

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

Regional Priority Credits

Projects can earn up to four bonus points by achieving Regional Priority Credits, which are assigned based on the project's ZIP code or region to address local environmental priorities.

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

The correct answer is four (Option D), as a LEED for Homes v4 project can pursue up to four Regional Priority Credits.

Why not the other options?

* A. One: This underestimates the number of RP credits available.

* B. Two: This is also too low, as up to four credits can be pursued.

Reference: LEED Reference Guide for Homes Design and Construction, v4, Regional Priority Credits, p. 190.

The LEED AP Homes Candidate Handbook emphasizes RP credits as part of the certification process 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-credit limit.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Regional Priority Credits, p. 190.

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 RP credit limits.

NEW QUESTION # 100

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 × floor area (ft²) + 7.5 × (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 actual occupant counts. 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 calculations, 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 ventilation calculation criteria.

NEW QUESTION # 101

For a site in a town with a population of 10,000 to qualify under Location and Transportation Credit, Site Selection, Option 2: Infill Development, what portion of the site's perimeter must border previously disturbed land?

- A. 25%
- B. 100%
- C. 50%
- D. 75%

Answer: D

Explanation:

The LEED for Homes Rating System (v4) outlines the requirements for the Location and Transportation (LT) Credit: Site Selection, which includes Option 2: Infill Development. This credit encourages development on sites that minimize environmental impact by utilizing previously disturbed or developed land.

For a site to qualify as infill development, a specific portion of its perimeter must border land that has been previously disturbed. According to the LEED Reference Guide for Homes Design and Construction (v4), the requirement for Option 2: Infill Development is as follows:

Option 2. Infill Development (1 point)

Select a lot such that at least 75% of the perimeter of the project site immediately borders parcels that are previously developed or that have been graded or otherwise altered by direct human activities.

Source: LEED Reference Guide for Homes Design and Construction, v4, Location and Transportation Credit: Site Selection, p. 54. This means that 75% of the site's perimeter must border previously disturbed land to meet the infill development criteria. The

population of the town (10,000 in this case) does not directly affect the infill development requirement but may be relevant for other LT credits, such as Access to Quality Transit or Neighborhood Pattern and Design, which consider community size or density. However, for Site Selection, Option 2, the focus is solely on the perimeter bordering previously disturbed land. The LEED v4.1 for Homes rating system aligns with this requirement, as it maintains the same infill development criteria for residential projects under the LT category.

LT Credit: Site Selection, Option 2. Infill Development

At least 75% of the project site's perimeter must border previously developed or disturbed parcels.

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

The LEED AP Homes Candidate Handbook confirms that the exam tests knowledge of the LEED v4 rating system, including the LT credits, and references the LEED Reference Guide for Homes Design and Construction as a primary study resource. The handbook does not alter the technical requirements but emphasizes understanding credit intent and compliance paths, such as the infill development perimeter rule.

Why not the other options?

- * A. 25%: This is too low and does not meet the minimum threshold for infill development, which requires significant adjacency to previously disturbed land to ensure compact, sustainable development.
- * B. 50%: While closer, 50% still falls short of the 75% requirement, which is designed to prioritize sites fully integrated into existing developed areas.
- * D. 100%: Requiring 100% of the perimeter to border previously disturbed land is overly restrictive and not specified in the LEED v4 or v4.1 requirements.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Location and Transportation Credit: Site Selection, p. 54.

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 alignment with v4 infill requirements.

NEW QUESTION # 102

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