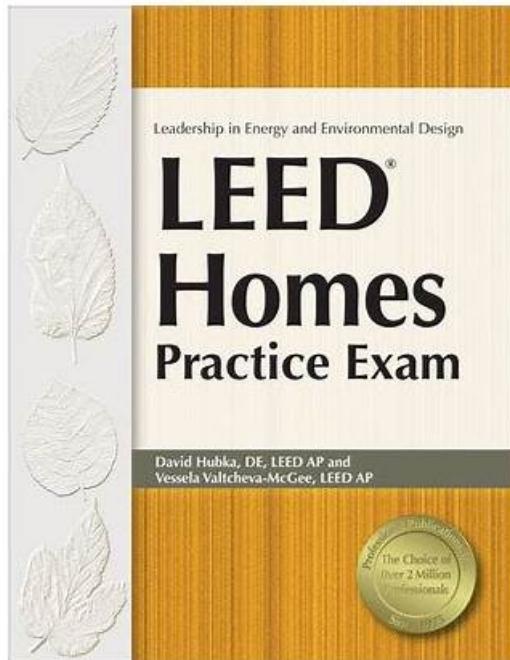


New LEED-AP-Homes Dumps Book - LEED-AP-Homes Exam Flashcards



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USGBC LEED-AP-Homes Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 3	<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 4	<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 5	<ul style="list-style-type: none"> 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.
Topic 6	<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.

>> New LEED-AP-Homes Dumps Book <<

USGBC LEED-AP-Homes Latest New Dumps Book

Are you planning to appear in the LEED AP Homes (Residential) Exam (LEED-AP-Homes) certification test and need to know where to get updated practice questions? Then you are at the right place because LEED AP Homes (Residential) Exam (LEED-AP-Homes) has made the learning material for the applicants to prepare successfully for the certification exam in a short time.

USGBC LEED AP Homes (Residential) Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70

Sustainable Sites Prerequisite, No Invasive Plants requires that all site vegetation:

- A. Be listed by USDA Cooperative Extension Service or equivalent
- B. Be native to the project's region
- C. Be drought tolerant
- D. Provide shading to 25% of hardscapes

Answer: A

Explanation:

The LEED for Homes Rating System (v4) includes the Sustainable Sites (SS) Prerequisite: No Invasive Plants, which ensures that landscaping does not introduce invasive species that could harm local ecosystems.

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

SS Prerequisite: No Invasive Plants

All site vegetation must be non-invasive, as verified by the USDA Cooperative Extension Service or an equivalent authority (e.g., local native plant societies or university extension programs). Invasive species are those that are non-native and likely to cause environmental harm.

Source: LEED Reference Guide for Homes Design and Construction, v4, Sustainable Sites Prerequisite: No Invasive Plants, p. 72. The LEED v4.1 Residential BD+C rating system confirms:

SS Prerequisite: No Invasive Plants

All plants must be verified as non-invasive by the USDA Cooperative Extension Service or equivalent to ensure they do not disrupt local ecosystems.

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

The correct answer is be listed by USDA Cooperative Extension Service or equivalent (Option C), as this ensures that all site vegetation is non-invasive, meeting the prerequisite.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Prerequisite: No Invasive Plants, p. 72.

B). Be drought tolerant: This is relevant to WE Credit: Outdoor Water Use, not the No Invasive Plants prerequisite. Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Outdoor Water Use, p. 98.

D). Provide shading to 25% of hardscapes: This is related to SS Credit: Heat Island Reduction, not the No Invasive Plants

prerequisite. Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Heat Island Reduction, p. 80. The LEED AP Homes Candidate Handbook emphasizes SS prerequisites, including invasive plant prevention, 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 USDA verification.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Sustainable Sites Prerequisite: No Invasive Plants, 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 plant verification.

NEW QUESTION # 71

Solar hot water heating systems are rewarded under which Energy and Atmosphere credit?

- A. Renewable Energy
- B. High-Efficiency Appliances
- **C. Efficient Domestic Hot Water Equipment**
- D. Balancing of Heating and Cooling Distribution Systems

Answer: C

Explanation:

The LEED for Homes Rating System (v4) rewards energy-efficient systems, including solar hot water heating, under the Energy and Atmosphere (EA) category. Solar hot water systems reduce energy use for water heating, a significant component of residential energy consumption.

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

EA Credit: Efficient Domestic Hot Water Equipment (1-3 points)

Install high-efficiency water heating equipment, such as solar hot water systems, that meet specified performance criteria (e.g., solar fraction of at least 0.4 for solar systems). Points are awarded based on the efficiency and percentage of hot water demand met by the system.

Source: LEED Reference Guide for Homes Design and Construction, v4, Energy and Atmosphere Credit:

Efficient Domestic Hot Water Equipment, p. 134.

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

EA Credit: Efficient Domestic Hot Water Equipment

Solar hot water systems qualify for points by reducing energy use for water heating, based on their solar fraction or efficiency.

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

Solar hot water heating systems are rewarded under Efficient Domestic Hot Water Equipment (Option B), as they directly address water heating efficiency.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: High-Efficiency Appliances, p. 136.

C). Renewable Energy: This credit rewards on-site renewable energy generation (e.g., solar photovoltaic panels for electricity), not solar thermal systems for water heating. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Renewable Energy, p. 138.

D). Balancing of Heating and Cooling Distribution Systems: This credit addresses HVAC duct design and balancing, not water heating. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Balancing of Heating and Cooling Distribution Systems, p. 126.

The LEED AP Homes Candidate Handbook emphasizes EA credits, including water heating efficiency, 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 this credit.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Energy and Atmosphere Credit: Efficient Domestic Hot Water Equipment, p. 134.

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 hot water criteria.

NEW QUESTION # 72

The first consideration in solar home design is to:

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

Answer: D

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 # 73

Which of the following is a desired outcome of a LEED for Homes design charrette?

- A. Schematic design of the project
- B. Completed checklist of LEED for Homes credits to pursue
- C. Integrated green strategies across all aspects of the building design

- D. Completed Green Development Plan in accordance with the Enterprise Community Partners' Green Development Plan

Answer: C

Explanation:

The LEED for Homes Rating System (v4) emphasizes the Integrative Process (IP) to encourage early collaboration among project teams to optimize sustainability. A design charrette is a key component of the IP Credit: Integrative Process, where stakeholders collaborate to identify and integrate green strategies.

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

IP Credit: Integrative Process (1 point)

Conduct a preliminary design charrette with the project team to identify and integrate green strategies across all aspects of the building design, including energy, water, materials, and indoor environmental quality. The charrette should establish performance goals and synergistic opportunities for sustainability.

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

Integrative Process, p. 44.

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

IP Credit: Integrative Process

The design charrette aims to foster collaboration to develop integrated green strategies that enhance the project's environmental performance across multiple systems.

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

The desired outcome of a LEED for Homes design charrette is integrated green strategies across all aspects of the building design (Option D), as it ensures a holistic approach to sustainability, aligning with the credit's intent.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, IP Credit: Integrative Process, p. 44.

B). Completed checklist of LEED for Homes credits to pursue: A charrette may discuss potential credits, but a completed checklist is a later step, not the primary outcome. The focus is on strategy integration.

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

C). Completed Green Development Plan in accordance with the Enterprise Community Partners' Green Development Plan: This is unrelated to LEED for Homes, as it refers to a specific program by Enterprise Community Partners, not a LEED requirement. Reference: LEED Reference Guide for Homes Design and Construction, v4, does not mention Enterprise Community Partners.

The LEED AP Homes Candidate Handbook emphasizes the Integrative Process as a key exam topic, referencing the LEED Reference Guide for Homes Design and Construction as a primary resource. The exam is based on LEED v4, ensuring the relevance of the charrette's purpose.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Integrative Process Credit: Integrative Process, p. 44-45.

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 integrative process goals.

NEW QUESTION # 74

In order to verify that environmentally preferable products are low-emitting, the project team must submit which of the following information?

- A. Distance from manufacturing facility to project site
- B. Cost of qualifying product as a percentage of total project cost
- **C. Product literature or certification labels**
- D. Date of purchase

Answer: C

Explanation:

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

Environmentally Preferable Products when products meet criteria such as low emissions (e.g., low-VOC paints or adhesives). Verification requires documentation to confirm compliance.

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

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

To verify that products are low-emitting, submit product literature or certification labels (e.g., GREENGUARD, SCS Indoor Advantage) demonstrating compliance with low-VOC or low-emission standards. This documentation confirms that products meet the credit's requirements for indoor environmental quality.

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

Environmentally Preferable Products, p. 161.

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

MR Credit: Environmentally Preferable Products

Low-emitting products must be documented with product literature or third-party certification labels verifying compliance with VOC or emission standards.

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

The correct answer is product literature or certification labels (Option C), as these provide the necessary evidence to verify low-emitting properties.

Why not the other options?

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

B). Cost of qualifying product as a percentage of total project cost: Cost data is used for overall credit calculations, not low-emission verification. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160.

D). Distance from manufacturing facility to project site: This is relevant for Option 1: Local Production, not low-emission verification. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160.

The LEED AP Homes Candidate Handbook emphasizes MR credits, including documentation 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 product literature.

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 low-emission documentation.

NEW QUESTION # 75

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