

Prominent Features of Pass4guide USGBC LEED-AP-Homes Practice Questions



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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">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 3	<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 4	<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.

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The web-based USGBC LEED-AP-Homes Practice Exam is compatible with all operating systems, including Mac, Linux, iOS, Android, and Windows. It is a browser-based LEED AP Homes (Residential) Exam (LEED-AP-Homes) practice exam that works on all major browsers, including Chrome, Firefox, Safari, Internet Explorer, and Opera. This means that you won't have to worry about installing any complicated software or plug-ins.

USGBC LEED AP Homes (Residential) Exam Sample Questions (Q84-Q89):

NEW QUESTION # 84

Which of the following information about showers is necessary to calculate Indoor Water Baseline Consumption?

- A. Number of recirculating shower systems, fixture flow rates, and number of bedrooms
- **B. Fixture flow rates, number of bedrooms, and bathrooms**
- C. Size of plumbing piping to fixtures, fixture flow rates, and number of bathrooms
- D. Size of shower compartments, fixture flow rate, and number of shower heads

Answer: B

Explanation:

The LEED for Homes Rating System (v4) addresses indoor water use in the Water Efficiency (WE) Credit:

Indoor Water Use, which requires calculating the baseline water consumption to determine savings from efficient fixtures. For showers, key data points are needed to estimate usage.

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

WE Credit: Indoor Water Use (1-6 points)

Calculate baseline indoor water consumption using fixture flow rates (e.g., gallons per minute for showers), the number of bedrooms (as a proxy for occupancy), and the number of bathrooms to account for all fixtures.

The baseline assumes standard flow rates and typical usage patterns based on occupancy and fixture counts.

Source: LEED Reference Guide for Homes Design and Construction, v4, Water Efficiency Credit: Indoor Water Use, p. 96.

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

WE Credit: Indoor Water Use

Indoor water baseline consumption is calculated using fixture flow rates, the number of bedrooms (to estimate occupants), and the number of bathrooms (to account for fixture distribution).

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

The correct answer is fixture flow rates, number of bedrooms, and bathrooms (Option A), as these are essential for calculating baseline shower water use based on flow rates and estimated occupancy.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Indoor Water Use, p. 96.

C). Size of shower compartments, fixture flow rate, and number of shower heads: Shower compartment size is irrelevant; the number of showerheads is accounted for in bathroom counts. Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Indoor Water Use, p. 96.

D). Number of recirculating shower systems, fixture flow rates, and number of bedrooms: Recirculating systems are not part of baseline calculations, which assume standard fixtures. Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Indoor Water Use, p. 96.

The LEED AP Homes Candidate Handbook emphasizes WE credits, including indoor water 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 these parameters.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Water Efficiency Credit: Indoor Water Use, p. 96.

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 baseline consumption parameters.

NEW QUESTION # 85

Which of the following written materials must be provided to a new home occupant to comply with Energy and Atmosphere Prerequisite, Education of the Homeowner, Tenant or Building Manager?

- A. 1990 Americans with Disabilities Act (ADA) guidelines
- B. Environmental Protection Agency (EPA) for Homes guidelines
- **C. Operations and maintenance manual**
- D. ASHRAE Standard 90.1-2006

Answer: C

Explanation:

The question references an "Energy and Atmosphere Prerequisite" for education, which appears to be a misnomer, as the LEED for Homes Rating System (v4) includes this requirement under the Innovation (IN) Prerequisite: Education of the Homeowner, Tenant, or Building Manager. This prerequisite ensures occupants receive materials to understand and maintain the home's sustainable features. According to the LEED Reference Guide for Homes Design and Construction (v4):

IN Prerequisite: Education of the Homeowner, Tenant, or Building Manager Provide an operations and maintenance manual to the homeowner or tenant, including product manuals for installed equipment (e.g., HVAC, water heating systems) and information on the operation and maintenance of green features.

Source: LEED Reference Guide for Homes Design and Construction, v4, Innovation Prerequisite: Education of the Homeowner, Tenant, or Building Manager, p. 188.

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

IN Prerequisite: Education of the Homeowner or Tenant

An operations and maintenance manual must be provided to occupants, detailing the function, operation, and maintenance of sustainable systems and equipment in the home.

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

The correct answer is operations and maintenance manual (Option B), as this is the required written material to comply with the prerequisite.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, no mention in IN Prerequisite: Education.

C). 1990 Americans with Disabilities Act (ADA) guidelines: These are unrelated to LEED homeowner education requirements. Reference: LEED Reference Guide for Homes Design and Construction, v4, no mention in IN Prerequisite: Education.

D). Environmental Protection Agency (EPA) for Homes guidelines: While ENERGY STAR guidelines may be relevant, they are not required written materials for this prerequisite. Reference: LEED Reference Guide for Homes Design and Construction, v4, IN Prerequisite: Education of the Homeowner, Tenant, or Building Manager, p. 188.

The LEED AP Homes Candidate Handbook emphasizes IN prerequisites, including education 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 operations and maintenance manual.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Innovation Prerequisite: Education of the Homeowner, Tenant, or Building Manager, p. 188.

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 education materials.

NEW QUESTION # 86

The project team is planning trades training to meet requirements for the Integrative Process Credit, Option 2: Trades Training. How many hours are required to earn this credit?

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

Answer: A

Explanation:

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

Provide at least four hours of training for construction trades involved in the project to educate them on LEED requirements, green building strategies, and proper installation techniques for sustainable systems and materials.

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: Trades Training

A minimum of four hours of trades training is required to ensure that contractors understand and correctly implement green building measures, earning the credit.

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 trades training 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 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 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 trades training duration.

NEW QUESTION # 87

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

Answer: B

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 # 88

Which of the following products could earn one point for being reclaimed under the Materials and Resources Credit, Environmentally Preferable Products?

- A. Downspouts and gutters
- B. Brick for the home's exterior cladding
- C. Stained glass window
- D. Steel garage doors with opener

Answer: C

Explanation:

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

Environmentally Preferable Products when products are reclaimed (reused or salvaged from another project), contributing to the required percentage of material cost (e.g., 25% for 1 point).

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

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

Use products that are reused or salvaged from the same or another project for at least 25% (by cost) of the total materials to earn 1 point. Reclaimed products include salvaged architectural elements like stained glass windows, which are reused in their original form.

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

Environmentally Preferable Products, p. 160.

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

MR Credit: Environmentally Preferable Products

Reclaimed materials, such as salvaged stained glass windows, qualify for points if they contribute to the required material cost percentage (e.g., 25% for 1 point).

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

The correct answer is stained glass window (Option A), as it is a salvaged architectural element commonly reused in its original form, qualifying as a reclaimed material under the credit.

Why not the other options?

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

C). Steel garage doors with opener: Garage doors are usually new or refurbished, not reclaimed, and the opener is a mechanical component, not typically salvaged. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit:

Environmentally Preferable Products, p. 160.

D). Brick for the home's exterior cladding: While brick can be reclaimed (as in Question 42), it is not specified as salvaged here, unlike the stained glass window, which is a classic reclaimed item. 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 reclaimed materials, 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 reclaimed architectural elements.

References:

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

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 reclaimed material criteria.

NEW QUESTION # 89

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