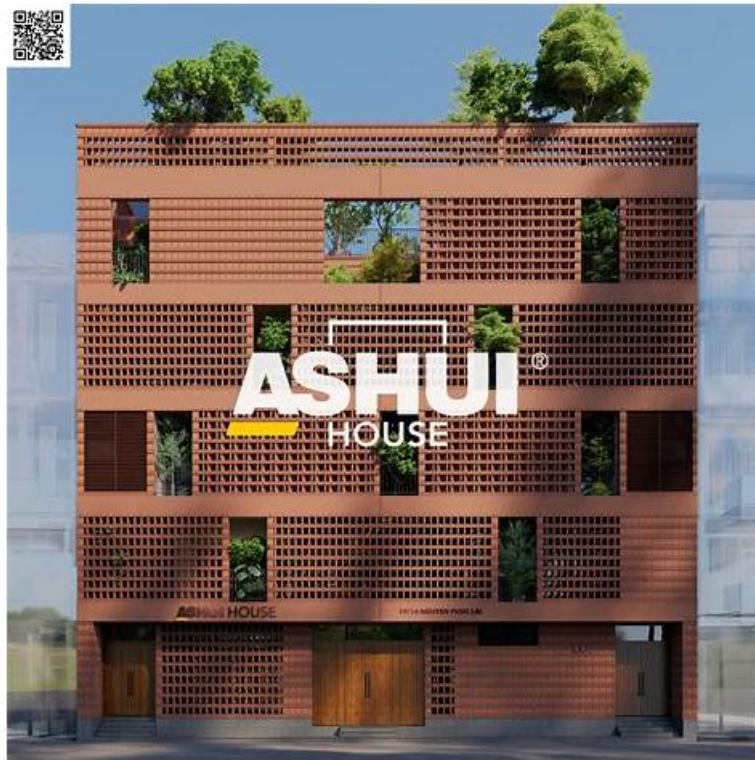


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USGBC LEED AP Homes (Residential) Exam Sample Questions (Q66-Q71):

NEW QUESTION # 66

The owner requires a fireplace in a new house and is pursuing LEED for Homes certification. Which of the following strategies is

acceptable?

- **A. Install doors on the fireplace**
- B. Install carbon monoxide monitors in each room
- C. Use an unvented decorative log fireplace
- D. Use unvented combustion appliances

Answer: A

Explanation:

The LEED for Homes Rating System (v4) addresses fireplaces in the Indoor Environmental Quality (EQ) Credit: Enhanced Combustion Venting, which promotes safe combustion practices to prevent indoor air quality issues from fireplaces.

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

EQ Credit: Enhanced Combustion Venting (1 point)

For fireplaces, install doors and ensure they are direct-vented or power-vented to prevent combustion byproducts from entering the home. Unvented fireplaces or appliances are not permitted due to indoor air quality risks.

Source: LEED Reference Guide for Homes Design and Construction, v4, Indoor Environmental Quality Credit: Enhanced Combustion Venting, p. 144.

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

EQ Credit: Enhanced Combustion Venting

Fireplaces must have doors and be vented to the outdoors (e.g., direct-vent) to qualify for the credit, ensuring safe operation and minimal indoor air pollution.

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

The correct answer is install doors on the fireplace (Option A), as this, combined with proper venting (assumed in LEED-compliant fireplaces), ensures safe operation and compliance with the credit.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Enhanced Combustion Venting, p. 144.

C). Use an unvented decorative log fireplace: Unvented fireplaces are not allowed, as they pose significant indoor air quality risks. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Enhanced Combustion Venting, p. 144.

D). Install carbon monoxide monitors in each room: While monitors are recommended for safety, they do not address the credit's requirement for vented fireplaces with doors. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Enhanced Combustion Venting, p. 144.

The LEED AP Homes Candidate Handbook emphasizes EQ credits, including combustion venting, 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 fireplace doors.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Indoor Environmental Quality Credit: Enhanced Combustion Venting, p. 144.

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/lead-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming fireplace venting requirements.

NEW QUESTION # 67

A single-family home meets the Indoor Environmental Quality Credit Prerequisite, Ventilation using a continuous exhaust strategy. Which of the following Indoor Environmental Quality credits are potential credit synergies?

- A. Enhanced Combustion Venting
- **B. Enhanced Ventilation**
- C. Radon Control
- D. Contaminant Control

Answer: B

Explanation:

The LEED for Homes Rating System (v4) requires the Indoor Environmental Quality (EQ) Prerequisite:

Ventilation, which can be met using a continuous exhaust strategy to provide adequate outdoor air. Certain EQ credits have synergies with this prerequisite, enhancing ventilation performance or indoor air quality.

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

EQ Credit: Enhanced Ventilation (1-3 points)

Projects that meet the ventilation prerequisite using a continuous exhaust strategy can pursue the Enhanced Ventilation credit by providing additional outdoor air, improving air distribution, or installing advanced filtration systems. This credit builds on the prerequisite by optimizing ventilation performance.

Source: LEED Reference Guide for Homes Design and Construction, v4, Indoor Environmental Quality Credit: Enhanced Ventilation, p. 146.

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

EQ Credit: Enhanced Ventilation

This credit synergizes with the ventilation prerequisite by offering points for exceeding minimum ventilation requirements, such as increasing outdoor air rates or using high-efficiency filters in continuous exhaust systems.

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

The Enhanced Ventilation credit (Option D) is a direct synergy with the continuous exhaust strategy, as it builds on the prerequisite by improving ventilation rates, distribution, or filtration.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Radon Control, p. 150.

B). Contaminant Control: This credit addresses source control (e.g., low-VOC materials, entryway systems), which complements ventilation but is not a direct synergy with continuous exhaust. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Contaminant Control, p. 148.

C). Enhanced Combustion Venting: This credit focuses on combustion equipment safety (e.g., sealed combustion appliances), which is unrelated to exhaust ventilation strategies. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Enhanced Combustion Venting, p. 144.

The LEED AP Homes Candidate Handbook emphasizes EQ credits, including ventilation synergies, 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 Enhanced Ventilation.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Indoor Environmental Quality Credit: Enhanced Ventilation, p. 146.

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 credit synergies.

NEW QUESTION # 68

For a project to earn one point for Materials and Resources Credit, Environmentally Preferable Products, what must occur?

- A. Achieve more than 95% of the component by weight or volume that meets Option 2: Environmentally Preferable Products
- **B. Meet more than two or more of the criteria under Option 2: Environmentally Preferable Products**
- C. Meet both Option 1: Local Production and Option 2: Environmentally Preferable Products
- D. Achieve more than 95% of the component by weight or volume that meets Option 1: Local Production

Answer: B

Explanation:

The LEED for Homes Rating System (v4) outlines the requirements for the Materials and Resources (MR) Credit: Environmentally Preferable Products, which encourages the use of sustainable materials. The credit has two options: Option 1: Local Production (materials sourced within 100 miles) and Option 2:

Environmentally Preferable Products (materials with attributes like recycled content, FSC-certified wood, or low emissions).

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

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

Earn points by meeting the following:

* Option 2: Environmentally Preferable Products: 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:

* Recycled content

* FSC-certified wood

* Bio-based materials

* Low-emission products (e.g., low-VOC paints) To earn 1 point, at least 25% of the materials (by cost) must meet two or more of these criteria. 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

For 1 point, use products that meet two or more environmentally preferable criteria (e.g., recycled content, FSC-certified) for at least 25% of the total material cost.

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

To earn one point under Option 2, the project must use materials that collectively meet two or more of the environmentally preferable criteria (e.g., a product with both recycled content and low emissions) for at least 25% of the total material cost. This makes Option B the correct answer.

Why not the other options?

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

C). Achieve more than 95% of the component by weight or volume that meets Option 1: Local Production: Option 1 focuses on local production (within 100 miles), not environmentally preferable attributes, and uses cost, not weight or volume. It is a separate compliance path. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160.

D). Meet both Option 1: Local Production and Option 2: Environmentally Preferable Products: The credit allows projects to pursue either Option 1 or Option 2 independently. Meeting both is not required for one point. 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 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 Option 2's criteria.

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 criteria for one point.

NEW QUESTION # 69

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

- A. Environmental Protection Agency (EPA)
- B. U.S. Green Building Council (USGBC)
- C. Residential Energy Services Network (RESNET)
- D. Department of Energy (DOE)

Answer: C

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.

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, confirming software accreditation.

NEW QUESTION # 70

A project team for a home in a small town is pursuing LEED certification. The home is designed with the following site characteristics:

- * The lot is square.
- * Three sides of the square lot border undeveloped land.
- * The previous home covering 78% of the lot is deconstructed and the new LEED home will be built in its place.
- * One full side of the square lot borders a home that was built 10 years before the LEED project.

Compliance with which of the following options, if any, will qualify the home for Location and Transportation Credit, Site Selection?

- A. None, this home does not comply with Location and Transportation Credit, Site Selection
- B. Infill only
- C. Previously Developed only
- D. Infill and Previously Developed

Answer: C

Explanation:

The LEED for Homes Rating System (v4) includes the Location and Transportation (LT) Credit: Site Selection, which awards points for building on infill or previously developed sites to minimize environmental impact.

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

LT Credit: Site Selection (1-3 points)

* Option 1: Infill: At least 75% of the lot's perimeter must border previously developed parcels (e.g., existing buildings or infrastructure).

* Option 2: Previously Developed: The lot must have been previously altered by construction (e.g., a prior home covering a significant portion of the site) before the LEED project. A site with a previous home covering 78% of the lot qualifies as previously developed, but if only one side (25% of a square lot's perimeter) borders a developed parcel, it does not meet the infill requirement. Source: LEED Reference Guide for Homes Design and Construction, v4, Location and Transportation Credit: Site

Selection, p. 54.

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

LT Credit: Site Selection

A site qualifies for Option 2: Previously Developed if it was previously altered (e.g., a home covering 78% of the lot). Infill requires 75% of the perimeter to border developed land, which a square lot with only one developed side (25%) does not meet.

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

Evaluation:

* Infill: The lot is square, with one side (25% of the perimeter) bordering a developed home. This does not meet the 75% perimeter requirement for infill.

* Previously Developed: The previous home covered 78% of the lot, qualifying it as previously developed.

The correct answer is Previously Developed only (Option B), as the site meets the criteria for Option 2 but not Option 1.

Why not the other options?

* A. Infill only: The site does not meet the 75% perimeter requirement for infill (only 25% borders developed land).

* C. Infill and Previously Developed: The site does not qualify for infill, so it cannot meet both options.

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

The LEED AP Homes Candidate Handbook emphasizes LT credits, including site selection, 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 previously developed sites.

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 site selection criteria.

NEW QUESTION # 71

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