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USGBC LEED-AP-Homes Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> 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"> • 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.
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USGBC LEED AP Homes (Residential) Exam Sample Questions (Q52-Q57):

NEW QUESTION # 52

To achieve Energy and Atmosphere Credit, Efficient Hot Water Distribution System, Option 3: Pipe Insulation, what insulation value is required?

- A. R-2
- B. R-3
- C. R-10
- **D. R-4**

Answer: D

Explanation:

The LEED for Homes Rating System (v4) includes the Energy and Atmosphere (EA) Credit: Efficient Hot Water Distribution System, Option 3: Pipe Insulation, which awards points for insulating hot water pipes to reduce heat loss and improve energy efficiency.

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

EA Credit: Efficient Hot Water Distribution System, Option 3: Pipe Insulation (1 point) Insulate all hot water piping with a minimum insulation value of R-4 to reduce heat loss and improve the efficiency of the hot water distribution system.

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

Efficient Hot Water Distribution System, p. 133.

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

EA Credit: Efficient Hot Water Distribution System, Option 3: Pipe Insulation Hot water pipes must be insulated to at least R-4 to qualify for the credit, minimizing energy losses during water distribution.

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

The correct answer is R-4 (Option C), as this is the minimum insulation value required for hot water piping to earn the credit.

Why not the other options?

* A. R-2: This is below the required insulation value for the credit.

* B. R-3: This is also below the required R-4 value.

Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Efficient Hot Water Distribution System, p. 133.

The LEED AP Homes Candidate Handbook emphasizes EA credits, including hot water distribution 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 the R-4 requirement.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Energy and Atmosphere Credit: Efficient Hot Water Distribution System, p. 133.

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 pipe insulation requirements.

NEW QUESTION # 53

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 prescriptive path for Energy and Atmosphere cannot be used
- **D. The home cannot be LEED certified until the walls are insulated in compliance with the Thermal Enclosure Checklist**

Answer: D

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 Rating 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 # 54

A developer is planning to build 40 single-family homes on a two-acre (0.8 hectare) site. Under the Location and Transportation Credit, Compact Development, what is the maximum number of points that the developer can achieve?

- A. Three points
- B. Zero points
- C. One point
- D. Two points

Answer: A

Explanation:

The LEED for Homes Rating System (v4) includes the Location and Transportation (LT) Credit:

Compact Development, which awards points for higher-density development to reduce environmental impacts and promote efficient land use.

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

LT Credit: Compact Development (1-3 points)

Achieve the following dwelling unit densities (units per acre of buildable land):

* 1 point: # 7 units per acre.

* 2 points: # 12 units per acre.

* 3 points: # 20 units per acre. Calculate density by dividing the number of dwelling units by the buildable land area (in acres). Source: LEED Reference Guide for Homes Design and Construction, v4, Location and Transportation Credit: Compact Development, p. 57.

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

LT Credit: Compact Development

For single-family homes, achieve 3 points by developing at least 20 dwelling units per acre on buildable land.

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

Calculation:

* Site area: 2 acres (0.8 hectare).

* Number of homes: 40 single-family homes.

* Density: $40 \text{ units} \div 2 \text{ acres} = 20 \text{ units per acre}$.

* This meets the threshold for 3 points (# 20 units per acre).

The correct answer is three points (Option D), as the density of 20 units per acre qualifies for the maximum points under the credit.

Why not the other options?

* A. Zero points: The density (20 units/acre) far exceeds the minimum threshold (7 units/acre).

* B. One point: This applies to # 7 units/acre, below the project's density.

Reference: LEED Reference Guide for Homes Design and Construction, v4, LT Credit: Compact Development, p. 57.

The LEED AP Homes Candidate Handbook emphasizes LT credits, including compact development, 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 density calculations.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Location and Transportation Credit: Compact Development, p. 57.

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 compact development points.

NEW QUESTION # 55

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

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

Answer: C

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 # 56

An effective design strategy to reduce outdoor water consumption is using:

- A. Sprinkler systems with minimum reach of 10 ft. (3 m)
- B. ENERGY STAR-certified irrigation equipment
- **C. Native and adapted plants**
- D. Only drip irrigation on impermeable surfaces

Answer: C

Explanation:

The LEED for Homes Rating System (v4) addresses outdoor water use in the Water Efficiency (WE) Credit: Outdoor Water Use, which promotes strategies to reduce irrigation needs, particularly through plant selection.

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

WE Credit: Outdoor Water Use (1-4 points)

Use native or adapted plants with low water requirements to reduce outdoor water consumption. These plants are suited to the local climate and require less irrigation compared to conventional turf or non-native species.

Source: LEED Reference Guide for Homes Design and Construction, v4, Water Efficiency Credit: Outdoor Water Use, p. 98.

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

WE Credit: Outdoor Water Use

Selecting native and adapted plants is an effective strategy to minimize irrigation needs, contributing to points by reducing outdoor water consumption.

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

The correct answer is native and adapted plants (Option C), as these reduce irrigation demand by being well-suited to local conditions, directly aligning with the credit's intent.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Outdoor Water Use, p. 98.

B). ENERGY STAR-certified irrigation equipment: ENERGY STAR applies to appliances, not irrigation equipment; no such certification exists for this credit. Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Outdoor Water Use, p. 98.

C). Sprinkler systems with minimum reach of 10 ft. (3 m): Sprinkler reach does not inherently reduce water use and may increase waste if not optimized. Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Outdoor Water Use, p. 98.

The LEED AP Homes Candidate Handbook emphasizes WE credits, including outdoor water use, 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 native plants.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Water Efficiency Credit: Outdoor Water Use, p. 98.

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 native plant strategy.

NEW QUESTION # 57

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