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USGBC LEED AP Homes (Residential) Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21

After the HVAC contractor has completed the rough-in installation of all air handling equipment, what step should be taken to achieve Indoor Environmental Quality Credit, Contaminant Control during construction?

- A. Flush the building for 48 hours
- **B. Seal off all duct boots and vents**
- C. Open all the windows in the house
- D. Install temporary fans throughout the house

Answer: B

Explanation:

The LEED for Homes Rating System (v4) includes the Indoor Environmental Quality (EQ) Credit: Contaminant Control, which includes strategies to prevent contaminants from entering HVAC systems during construction to maintain indoor air quality.

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

EQ Credit: Contaminant Control, Option 3: Construction Indoor Air Quality Management (1-2 points) During construction, seal off all duct boots and vents after HVAC rough-in installation to prevent dust, debris, and other contaminants from entering the system, ensuring clean air distribution upon occupancy.

Source: LEED Reference Guide for Homes Design and Construction, v4, Indoor Environmental Quality Credit: Contaminant Control, p. 148.

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

EQ Credit: Contaminant Control

Sealing duct boots and vents during construction is a required step to prevent contamination of HVAC systems, protecting indoor air quality.

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

The correct answer is seal off all duct boots and vents (Option C), as this prevents contaminants from entering the HVAC system during construction, aligning with the credit's requirements.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Contaminant Control, p. 148.

B). Open all the windows in the house: This may help with ventilation but does not protect HVAC systems from construction debris. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Contaminant Control, p. 148.

D). Install temporary fans throughout the house: Temporary fans are not a specified strategy for this credit.

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Contaminant Control, p. 148.

The LEED AP Homes Candidate Handbook emphasizes EQ credits, including contaminant control during construction, 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 duct sealing.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Indoor Environmental Quality Credit: Contaminant Control, p. 148.

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 contaminant control strategies.

NEW QUESTION # 22

Looking at the attached table, a project team is aiming for three points in Water Efficiency Credit, Outdoor Water Use. The site contains a total of 57,500 ft² (5,342 m²) of softscape. If the plan has 8,000 ft² (743 m²) of turf grass, what is the minimum area of native or adapted landscape required to achieve the desired three points for this credit?

Turf grass area

Native or adapted plant area

Points

< 60%

> 25%

1

< 40%

> 50%

2

< 20%

> 75%

3

< 5%

> 75%

4

- A. 38,967 ft² (3,620 m²) of native or adapted plant area

- B. 39,355 ft² (3,656 m²) of native or adapted plant area
- C. 43,126 ft² (4,007 m²) of native or adapted plant area
- D. 2,784 ft² (259 m²) of native or adapted plant area

Answer: C

Explanation:

The LEED for Homes Rating System (v4) includes the Water Efficiency (WE) Credit: Outdoor Water Use, which awards points based on the ratio of turf grass (high water use) to native or adapted plants (low water use) in the softscape to reduce irrigation needs.

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

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

To achieve 3 points, the softscape must have less than 20% turf grass and more than 75% native or adapted plants, calculated by area.

Source: LEED Reference Guide for Homes Design and Construction, v4, Water Efficiency Credit: Outdoor Water Use, p. 98-99.

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

WE Credit: Outdoor Water Use

For 3 points, the turf grass area must be less than 20% of the total softscape, and the native or adapted plant area must exceed 75%.

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

Calculation:

* Total softscape area: 57,500 ft² (5,342 m²).

* Turf grass area: 8,000 ft² (743 m²).

* Turf grass percentage: $(8,000 \div 57,500) \times 100 = 13.91\%$ ($< 20\%$, meets requirement).

* Minimum native or adapted plant area for 3 points: $> 75\%$ of 57,500 ft² = $0.75 \times 57,500 = 43,125$ ft².

* Compare options:

* A. 38,967 ft² (3,620 m²): $38,967 \div 57,500 = 67.77\%$ ($< 75\%$, does not meet).

* B. 39,355 ft² (3,656 m²): $39,355 \div 57,500 = 68.44\%$ ($< 75\%$, does not meet).

* C. 43,126 ft² (4,007 m²): $43,126 \div 57,500 = 75.00\%$ (meets $> 75\%$ requirement).

* D. 2,784 ft² (259 m²): $2,784 \div 57,500 = 4.84\%$ (far below 75%, does not meet).

The correct answer is 43,126 ft² (4,007 m²) of native or adapted plant area (Option C), as it meets the minimum requirement for 3 points.

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 the table's criteria.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Water Efficiency Credit:

Outdoor Water Use, p. 98-99.

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 softscape ratios.

NEW QUESTION # 23

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. 50%
- C. 75%
- D. 100%

Answer: C

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 # 24

The prerequisite for homeowner basic operations and training must include:

- A. A map of neighborhood open spaces
- **B. A two-hour house walk-through including equipment training**
- C. A DVD with operations and maintenance information
- D. Educational information on "green power"

Answer: B

Explanation:

The LEED for Homes Rating System (v4) includes the Innovation (IN) Prerequisite: Education of the Homeowner, Tenant, or Building Manager, which ensures occupants are educated on the home's sustainable features and maintenance requirements.

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

IN Prerequisite: Education of the Homeowner, Tenant, or Building Manager Provide a minimum of a two-hour walk-through of the home with the homeowner or tenant, including training on the operation and maintenance of equipment and systems, such as HVAC, water heating, and renewable energy systems.

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

A two-hour walk-through with equipment training is required to educate homeowners on the operation and maintenance of green features.

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

The prerequisite requires a two-hour house walk-through including equipment training (Option C) to ensure homeowners understand how to operate and maintain the home's sustainable systems.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, IN Credit: Innovation, p. 190.

B). A map of neighborhood open spaces: This is relevant to LT Credit: Community Resources and Services, not homeowner education. Reference: LEED Reference Guide for Homes Design and Construction, v4, LT Credit: Community Resources and Services, p. 56.

D). A DVD with operations and maintenance information: While supplementary materials like DVDs are allowed, the prerequisite mandates a walk-through, not a DVD. 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 homeowner education, 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 walk-through requirement.

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 homeowner education requirements.

NEW QUESTION # 25

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

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

Answer: A

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 # 26

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