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USGBC LEED-AP-Homes Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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	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 5	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.
Topic 6	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.

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USGBC LEED AP Homes (Residential) Exam Sample Questions (Q28-Q33):

NEW QUESTION # 28

What is the intent of Innovation Prerequisite: Preliminary Rating?

- A. To define the mandatory certification level at the beginning and declare it to all parties
- B. To encourage exceptional performance for current credits and promote innovative performance in pioneering areas
- C. To maximize opportunities for integrative, cost-effective adoption of green design and construction strategies
- D. To define the credits that can be achieved most cost-effectively

Answer: C

Explanation:

The LEED for Homes Rating System (v4) includes the Innovation (IN) Prerequisite: Preliminary Rating, which requires the project team to conduct an early assessment to identify achievable credits and set sustainability goals.

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

IN Prerequisite: Preliminary Rating

The intent is to maximize opportunities for integrative, cost-effective adoption of green design and construction strategies by establishing a preliminary rating early in the design process. This involves identifying potential credits and setting performance goals with the project team.

Source: LEED Reference Guide for Homes Design and Construction, v4, Innovation Prerequisite:

Preliminary Rating, p. 186.

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

IN Prerequisite: Preliminary Rating

The goal is to foster an integrative process that identifies cost-effective green strategies and aligns the project team on sustainability objectives from the outset.

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

The correct answer is to maximize opportunities for integrative, cost-effective adoption of green design and construction strategies (Option C), as this reflects the prerequisite's focus on early planning for sustainability.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, IN Prerequisite: Preliminary Rating, p. 186.

B). To define the mandatory certification level at the beginning and declare it to all parties: The prerequisite does not mandate a certification level; it sets goals for credits. Reference: LEED Reference Guide for Homes Design and Construction, v4, IN Prerequisite: Preliminary Rating, p. 186.

D). To encourage exceptional performance for current credits and promote innovative performance in pioneering areas: This is the intent of IN Credit: Innovation, not the prerequisite. Reference: LEED Reference Guide for Homes Design and Construction, v4, IN Credit: Innovation, p. 190.

The LEED AP Homes Candidate Handbook emphasizes IN prerequisites, including Preliminary Rating, 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 integrative planning.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Innovation Prerequisite:

Preliminary Rating, p. 186.

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 preliminary rating intent.

NEW QUESTION # 29

Which of the following power needs requires special consideration at the design phase?

- A. 220-volt supply to laundry room
- B. Continuously operating bathroom fans
- C. Electric vehicle charging station
- D. ENERGY STAR appliances

Answer: C

Explanation:

The LEED for Homes Rating System (v4) encourages planning for energy-efficient and sustainable technologies during the design phase, particularly for significant electrical loads that impact infrastructure, as addressed in credits like Energy and Atmosphere (EA) Credit: Optimize Energy Performance.

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

EA Credit: Optimize Energy Performance

Design the home to accommodate high-efficiency systems and emerging technologies, such as electric vehicle (EV) charging stations, which require dedicated electrical capacity (e.g., 240-volt circuits) and planning during the design phase to ensure adequate panel capacity and conduit placement.

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, Credit Library, accessed via USGBC LEED Online:

EA Credit: Optimize Energy Performance

Electric vehicle charging stations require special consideration in the design phase, including dedicated circuits and infrastructure to support high-voltage, high-amperage loads, ensuring future scalability and energy efficiency.

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

An electric vehicle charging station (Option D) requires special consideration during the design phase due to its high power demand (typically 240 volts, 30-50 amps), necessitating dedicated circuits, panel capacity upgrades, and potential conduit or wiring planning to avoid costly retrofits.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Credit: Enhanced Ventilation, p. 146.

B). 220-volt supply to laundry room: While a 220-volt circuit is common for dryers, it is standard in residential design and does not require special consideration beyond typical electrical planning. Reference: No specific LEED requirement for laundry circuits.

C). ENERGY STAR appliances: These focus on efficiency and do not require unique electrical infrastructure beyond standard outlets. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: High-Efficiency Appliances, p. 136.

The LEED AP Homes Candidate Handbook emphasizes EA credits, including energy-efficient 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 EV charging considerations.

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 EV charging design needs.

NEW QUESTION # 30

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

Answer: D

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 # 31

50% of a new LEED home exterior is clad with salvaged brick; the remaining 50% is clad with wood. In order to earn a point under Materials and Resources Credit, Environmentally Preferable Products, which of the following must be true?

- A. Cladding combinations cannot earn points
- **B. At least half of the siding is reclaimed**
- C. All of the siding is FSC-certified

- D. At least half of the wood siding is both reclaimed and local

Answer: B

Explanation:

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

Environmentally Preferable Products when materials meet sustainable criteria, such as being reclaimed, recycled, or FSC-certified.

The scenario specifies that 50% of the exterior is clad with salvaged (reclaimed) brick, and the remaining 50% is wood.

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% (1 point), 50% (2 points), or 90% (3-4 points) by cost of the total materials:

* Reused or salvaged materials: Materials reclaimed from the same or another project, such as salvaged brick.

* FSC-certified wood: Wood products certified by the Forest Stewardship Council. To earn 1 point, at least 25% of the total material cost must meet one or more criteria, with products like salvaged brick qualifying as reclaimed. 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

Reclaimed materials, such as salvaged brick, contribute to the percentage of environmentally preferable products based on their cost. A minimum of 25% by cost is required for 1 point.

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

In this scenario, 50% of the exterior cladding is salvaged brick, which qualifies as reclaimed material. Since at least half of the siding is reclaimed (Option C), this meets the 25% threshold for 1 point, assuming the material cost proportion aligns. The wood portion does not need to be FSC-certified or reclaimed unless additional points are targeted.

Why not the other options?

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

B). Cladding combinations cannot earn points: This is incorrect; combinations of reclaimed, FSC-certified, or other qualifying materials can earn points based on total material cost. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 161.

D). At least half of the wood siding is both reclaimed and local: The wood does not need to be reclaimed or local; the salvaged brick (50% of siding) already qualifies for the credit. Local production is a separate option (Option 1). 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 reclaimed materials.

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

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming reclaimed material criteria.

NEW QUESTION # 32

For a typical single-family home, plumbing fixtures may account for what fraction of the home's total indoor water use?

- A. 2/3
- B. 1/2
- C. 1/3
- D. 3/4

Answer: A

Explanation:

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

Indoor Water Use, which focuses on reducing water consumption through efficient plumbing fixtures (e.g., toilets, faucets, showerheads). Understanding the contribution of fixtures to total indoor water use is key to this credit.

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

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

In a typical single-family home, plumbing fixtures (toilets, showerheads, and faucets) account for approximately two-thirds (2/3) of total indoor water use. Installing high-efficiency fixtures can significantly reduce water consumption.

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

Plumbing fixtures typically represent about 2/3 of indoor water use in single-family homes, making their efficiency critical for achieving water savings.

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

The correct answer is 2/3 (Option C), as plumbing fixtures account for approximately two-thirds of a typical single-family home's indoor water use.

Why not the other options?

* A. 1/3: This underestimates the contribution of plumbing fixtures, which are the primary indoor water users.

* B. 1/2: This is closer but still underestimates the typical proportion (2/3).

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 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 2/3 fraction.

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 indoor water use proportions.

NEW QUESTION # 33

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