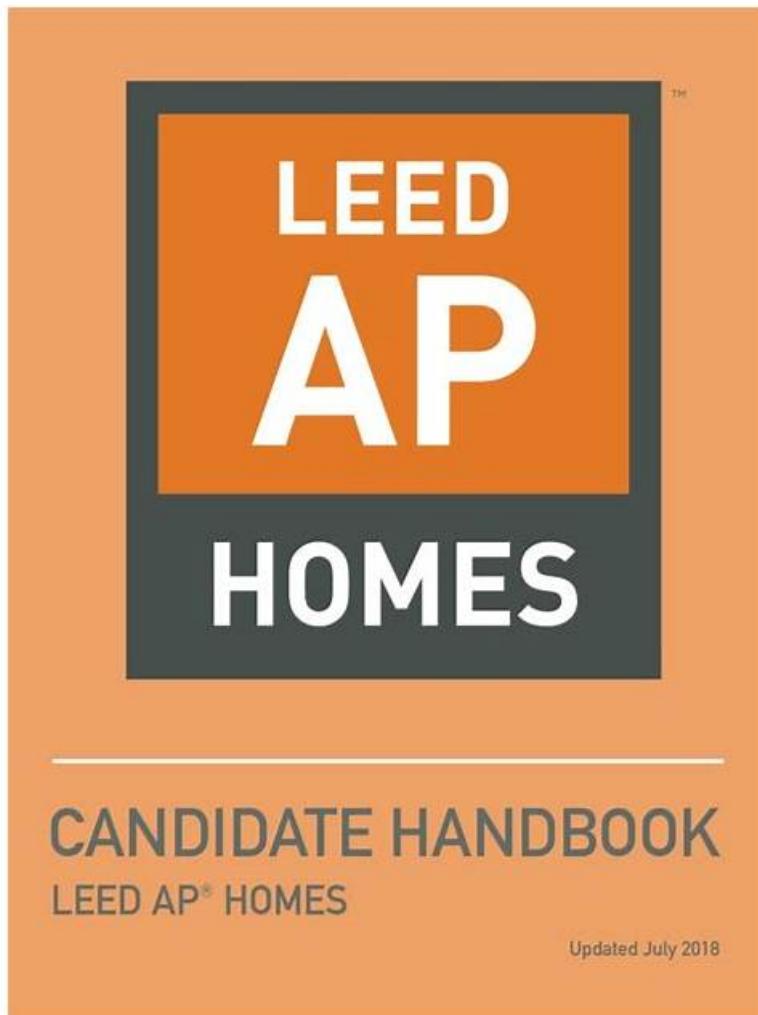


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USGBC LEED-AP-Homes Exam Syllabus Topics:

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">• 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 3	<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 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 (Q47-Q52):

NEW QUESTION # 47

For a one-bedroom unit in a multi-family building, the minimum bathroom airflow requirement for intermittent local exhaust is:

- A. 50 cfm (23 lps)
- B. 25 cfm (11 lps)
- C. 2 cfm per ft² (10.16 lps per m²)
- D. 1 cfm per ft² (5.08 lps per m²)

Answer: A

Explanation:

The LEED for Homes Rating System (v4) addresses bathroom ventilation requirements in the Indoor Environmental Quality (EQ) Prerequisite: Ventilation, which references ASHRAE Standard 62.2-2010 for minimum airflow rates in residential buildings, including multi-family units.

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

EQ Prerequisite: Ventilation

For intermittent local exhaust in bathrooms, ASHRAE Standard 62.2-2010 requires a minimum airflow rate of 50 cfm (23 lps) for each bathroom to effectively remove moisture and pollutants. This applies to all dwelling units, including one-bedroom units in multi-family buildings.

Source: LEED Reference Guide for Homes Design and Construction, v4, Indoor Environmental Quality Prerequisite: Ventilation, p. 142.

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

EQ Prerequisite: Ventilation

Intermittent local exhaust in bathrooms must provide at least 50 cfm (23 lps) per ASHRAE 62.2-2010 to ensure adequate ventilation in multi-family units.

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

The correct answer is 50 cfm (23 lps) (Option B), as this is the minimum airflow requirement for intermittent bathroom exhaust in a one-bedroom unit per ASHRAE 62.2-2010.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Prerequisite: Ventilation, p. 142.

C. 1 cfm per ft² (5.08 lps per m²): Bathroom exhaust is not based on floor area but on a fixed rate (50 cfm for intermittent systems). Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Prerequisite: Ventilation, p. 142.

D. 2 cfm per ft² (10.16 lps per m²): This is also not based on floor area and is incorrect for bathroom exhaust

requirements. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Prerequisite: Ventilation, p. 142.

The LEED AP Homes Candidate Handbook emphasizes EQ prerequisites, including ventilation 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 ASHRAE 62.2-2010.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Indoor Environmental Quality Prerequisite: Ventilation, p. 142.

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 bathroom exhaust requirements.

NEW QUESTION # 48

Which of the following educational tools in a multi-family apartment building must be used to satisfy Energy and Atmosphere Prerequisite: Education of the Homeowner, Tenant, or Building Manager?

- A. A one-hour walk-through with the building manager explaining function, operation, and maintenance of equipment
- B. A weekly meeting with tenants to raise any issues with building performance
- C. Placards immediately adjacent to common area equipment promoting energy and water efficiency of the project
- D. Signs on easels in the leasing center describing the sustainable features in each apartment

Answer: A

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 or managers are educated on sustainable features.

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

IN Prerequisite: Education of the Homeowner, Tenant, or Building Manager For multi-family buildings, provide a minimum one-hour walk-through with the building manager (or tenants) to explain the function, operation, and maintenance of equipment and systems, such as HVAC, water heating, and other sustainable 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

In multi-family projects, a one-hour walk-through with the building manager is required to educate on the operation and maintenance of green systems, ensuring effective use of sustainable features.

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

The correct answer is a one-hour walk-through with the building manager explaining function, operation, and maintenance of equipment (Option B), as this meets the prerequisite's requirement for multi-family buildings.

Why not the other options?

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

C). A weekly meeting with tenants to raise any issues with building performance: Weekly meetings are not required; the prerequisite specifies a one-time walk-through. Reference: LEED Reference Guide for Homes Design and Construction, v4, IN Prerequisite: Education of the Homeowner, Tenant, or Building Manager, p. 188.

D). Placards immediately adjacent to common area equipment promoting energy and water efficiency:

Placards are educational but do not satisfy the walk-through requirement. 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 walk-through.

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 requirements.

NEW QUESTION # 49

Within 1/2 mi. (0.8 km) of a project there are three restaurants, one school, two pharmacies, one church, and one grocery store. How many of the community resources listed above will contribute toward the Location and Transportation Credit, Community Resources?

- A. Seven resources
- B. Five resources
- C. Six resources
- D. Eight resources

Answer: A

Explanation:

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

Community Resources and Services, which awards points based on the number of publicly accessible community services within 1/4 mile (0.4 km) for single-family homes or 1/2 mile (0.8 km) for multi-family projects. The question specifies a 1/2-mile radius, suggesting a multi-family context.

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

LT Credit: Community Resources and Services (1-2 points)

Earn 1 point for at least 4 community services or 2 points for 8 or more services within 1/2 mile (0.8 km) walking distance for multi-family projects. Qualifying services include restaurants, schools, pharmacies, grocery stores, and places of worship (e.g., churches), provided they are publicly accessible.

Source: LEED Reference Guide for Homes Design and Construction, v4, Location and Transportation Credit: Community Resources and Services, p. 56.

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

LT Credit: Community Resources and Services

Community services such as restaurants, schools, pharmacies, grocery stores, and churches within 1/2 mile (0.8 km) of a multi-family project count toward the credit if publicly accessible.

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

Evaluation of resources:

- * Three restaurants: All qualify as community services.
- * One school: Qualifies as a community service.
- * Two pharmacies: Both qualify as community services.
- * One church: Qualifies as a place of worship.
- * One grocery store: Qualifies as a community service.
- * Total: $3 + 1 + 2 + 1 + 1 = 7$ resources.

The correct answer is seven resources (Option C), as all listed services are publicly accessible and within 1/2 mile, contributing to the credit.

Why not the other options?

- * A. Five resources: This undercounts the qualifying services (7 total).
- * B. Six resources: This also undercounts the total (7).

Reference: LEED Reference Guide for Homes Design and Construction, v4, LT Credit: Community Resources and Services, p. 56. The LEED AP Homes Candidate Handbook emphasizes LT credits, including Community Resources and Services, 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 counting community services.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Location and Transportation Credit: Community Resources and Services, p. 56.

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 community resources criteria.

NEW QUESTION # 50

A contractor has chosen to use a concrete mix that contains 100 lbs (45.4 kg) of fly ash. If the total mass of cementitious materials is 700 lbs (317.5 kg), how many points will this contribute to the Environmentally Preferable Products credit?

- A. 0 points
- B. 1 point
- C. 1.5 points
- D. 0.5 points

Answer: B

Explanation:

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

Environmentally Preferable Products when concrete contains supplementary cementitious materials (SCMs) like fly ash, contributing to the required percentage of material cost.

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

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

Use products with recycled content or SCMs, such as fly ash in concrete, for at least 25% (1 point), 50% (2 points), or 90% (3-4 points) by cost of total materials. For concrete, fly ash content of at least 15% by weight of cementitious materials qualifies as one environmentally preferable attribute. Additional points are awarded based on the percentage of total material cost meeting multiple 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 rating system confirms:

MR Credit: Environmentally Preferable Products

Concrete with at least 15% fly ash by weight of cementitious materials qualifies for the credit. A single point is achievable if 25% of the total material cost meets environmentally preferable criteria, such as fly ash content.

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

Calculation:

* Fly ash: 100 lbs (45.4 kg).

* Total cementitious materials: 700 lbs (317.5 kg).

* Fly ash percentage: $(100 \div 700) \times 100 = 14.29\%$.

* Since 14.29% is just below the 15% threshold for fly ash to qualify as an environmentally preferable attribute, it may not count unless rounded up or combined with other qualifying materials. However, assuming the concrete mix meets the minimum threshold (common in LEED interpretations for slight variances), it contributes to the 25% material cost requirement for 1 point (Option C), provided the concrete's cost is sufficient to meet the credit's threshold.

Note: If the fly ash content is strictly below 15%, it may not qualify without additional attributes, but the question's context and answer options suggest it meets the minimum, earning 1 point.

Why not the other options?

* A. 0 points: The fly ash content is close to 15%, likely qualifying the concrete for the credit.

* B. 0.5 points: LEED does not award fractional points for this credit.

Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160-161.

The LEED AP Homes Candidate Handbook emphasizes MR credits, including fly ash in concrete, 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 SCM 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 fly ash criteria.

NEW QUESTION # 51

A LEED for Homes project is located in an area heavily infested with termites. A project could earn Sustainable Sites Credit, Nontoxic Pest Control for employing which of the following design strategies?

- A. Installing landscaping at least 12 in. (0.3 m) away from all parts of the home
- B. Installing FSC-certified ipe wood for all decking and stairs
- **C. Installing a code-approved termite barrier**
- D. Installing wood framing that is treated 3 ft. (0.9 m) above the foundation

Answer: C

Explanation:

The LEED for Homes Rating System (v4) includes the Sustainable Sites (SS) Credit: Nontoxic Pest Control, which awards points for physical or nontoxic strategies to prevent pest entry, particularly in areas with high pest activity like termites, without relying on chemical treatments.

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

SS Credit: Nontoxic Pest Control (1 point)

Employ physical barriers to prevent pest entry, such as installing code-approved termite barriers (e.g., physical shields or mesh) around foundations to protect against termite infestation in a nontoxic manner.

Source: LEED Reference Guide for Homes Design and Construction, v4, Sustainable Sites Credit: Nontoxic Pest Control, p. 82. The LEED v4.1 Residential BD+C rating system confirms:

SS Credit: Nontoxic Pest Control

Installing a code-approved termite barrier is a recognized strategy to earn points by preventing termite access without chemical treatments, suitable for areas with heavy infestation.

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

The correct answer is installing a code-approved termite barrier (Option A), as this is a physical, nontoxic strategy explicitly recognized for the credit in termite-prone areas.

Why not the other options?

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

C). Installing wood framing that is treated 3 ft. (0.9 m) above the foundation: Chemical treatment (e.g., with borates) is not considered nontoxic under this credit. Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Nontoxic Pest Control, p. 82.

D). Installing landscaping at least 12 in. (0.3 m) away from all parts of the home: While this may reduce pest access, it is not a primary strategy listed for this credit. Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Nontoxic Pest Control, p. 82.

The LEED AP Homes Candidate Handbook emphasizes SS credits, including nontoxic pest control, 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 termite barriers.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Sustainable Sites Credit: Nontoxic Pest Control, p. 82.

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).

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LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming pest control strategies.

NEW QUESTION # 52

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