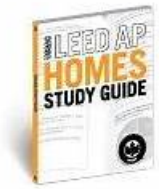
Quiz USGBC - LEED-AP-Homes - LEED AP Homes (Residential) Exam–Reliable Review Guide



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USGBC LEED-AP-Homes Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 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	• 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.

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USGBC LEED AP Homes (Residential) Exam Sample Questions (Q61-Q66):

NEW QUESTION # 61
Energy losses due to supply duct leakage are most likely to occur when:

- A. Duct layout includes multiple 90-degree bends on a single branch.
- B. Interior wall cavities are used to conduct return air.
- C. Ducts are located in unconditioned attics, basements, or exterior walls.
- D. Ducts are located within conditioned envelope but joints are unsealed.

Answer: C

Explanation:
Duct leakage in HVAC systems can significantly increase energy losses, particularly when ducts are poorly sealed or located in areas that exacerbate the impact of leakage. This issue is addressed in theLEED for Homes Rating System (v4)under theEnergy and Atmosphere (EA)category, specifically in credits related to Heating and Cooling Distribution Systems.
According to theLEED Reference Guide for Homes Design and Construction (v4), the location of ducts plays a critical role in energy losses due to leakage:
EA Credit: Heating and Cooling Distribution Systems
To minimize energy losses, locate all heating and cooling ducts and air handlers within the conditioned envelope of the building. Ducts located in unconditioned spaces, such as attics, basements, or exterior walls, are more likely to lose energy due to leakage, as air escaping from ducts in these areas is lost to the outside or unconditioned zones, increasing heating and cooling loads.
Source: LEED Reference Guide for Homes Design and Construction, v4, Energy and Atmosphere Credit:
Heating and Cooling Distribution Systems, p. 126.
TheLEED v4.1 Residential BD+Crating system further clarifies this:
EA Credit: Optimize Energy Performance
Ducts located in unconditioned spaces (e.g., attics, unconditioned basements, or exterior walls) contribute to significant energy losses when leakage occurs, as conditioned air escapes to areas outside the thermal envelope. Sealing ducts and locating them within conditioned spaces are best practices to minimize losses.
Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.
Ducts inunconditioned attics, basements, or exterior wallsare particularly problematic because any leakage results in conditioned air being lost to spaces that are not temperature-controlled, requiring the HVAC system to work harder to maintain indoor comfort. This scenario maximizes energy losses compared to ducts within the conditioned envelope.
Why not the other options?
Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Heating and Cooling Distribution Systems, p. 127, which discusses return air strategies but not as a primary leakage concern.
B). Duct layout includes multiple 90-degree bends on a single branch: Multiple 90-degree bends increase airflow resistance, reducing system efficiency, but they do not directly cause duct leakage. Leakage is related to unsealed joints or poor duct construction, not the geometry of the duct layout.Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Heating and Cooling Distribution Systems, p. 126, which prioritizes duct sealing over layout.
C). Ducts are located within conditioned envelope but joints are unsealed: While unsealed joints cause leakage, ducts within the conditioned envelope leak into spaces that are already temperature-controlled. This reduces the energy impact compared to leakage in unconditioned spaces, as the conditioned air remains within the thermal envelope.Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit:

Heating and Cooling Distribution Systems, p. 126, which notes that ducts in conditioned spaces minimize energy loss from leakage.
TheLEED AP Homes Candidate Handbookconfirms that the exam tests knowledge of EA credits, including duct system design and energy performance, referencing theLEED Reference Guide for Homes Design and Constructionas a primary resource. The handbook ensures that the exam is based onLEED v4, aligning with the focus on duct location and sealing.
References:
LEED Reference Guide for Homes Design and Construction, v4, USGBC, Energy and Atmosphere Credit: Heating and Cooling Distribution Systems, p. 126-127.
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 duct location impacts.

NEW QUESTION # 62
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. 75%
- C. 50%
- D. 100%

Answer: B

Explanation:
TheLEED for Homes Rating System (v4)outlines the requirements for theLocation and Transportation (LT) Credit: Site Selection, which includesOption 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 theLEED Reference Guide for Homes Design and Construction (v4), the requirement for Option 2: Infill Developmentis 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 that75% of the site's perimetermust 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 asAccess to Quality Transitor Neighborhood Pattern and Design, which consider community size or density. However, forSite Selection, Option 2, the focus is solely on the perimeter bordering previously disturbed land.
TheLEED v4.1 for Homesrating 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.
TheLEED AP Homes Candidate Handbookconfirms that the exam tests knowledge of theLEED v4rating system, including the LT credits, and references theLEED Reference Guide for Homes Design and Constructionas 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 # 63
Sustainable Sites Prerequisite, No Invasive Plants requires that all site vegetation:

- A. Be listed by USDA Cooperative Extension Service or equivalent
- B. Be drought tolerant
- C. Provide shading to 25% of hardscapes
- D. Be native to the project's region

Answer: A

Explanation:
TheLEED for Homes Rating System (v4)includes theSustainable Sites (SS) Prerequisite: No Invasive Plants, which ensures that landscaping does not introduce invasive species that could harm local ecosystems.
According to theLEED Reference Guide for Homes Design and Construction (v4):
SS Prerequisite: No Invasive Plants
All site vegetation must be non-invasive, as verified by the USDA Cooperative Extension Service or an equivalent authority (e.g., local native plant societies or university extension programs). Invasive species are those that are non-native and likely to cause environmental harm.
Source: LEED Reference Guide for Homes Design and Construction, v4, Sustainable Sites Prerequisite: No Invasive Plants, p. 72.
TheLEED v4.1 Residential BD+Crating system confirms:
SS Prerequisite: No Invasive Plants
All plants must be verified as non-invasive by the USDA Cooperative Extension Service or equivalent to ensure they do not disrupt local ecosystems.
Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.
The correct answer isbe listed by USDA Cooperative Extension Service or equivalent(Option C), as this ensures that all site vegetation is non-invasive, meeting the prerequisite.
Why not the other options?
Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Prerequisite: No Invasive Plants, p. 72.
B). Be drought tolerant: This is relevant toWE Credit: Outdoor Water Use, not the No Invasive Plants prerequisite.Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Outdoor Water Use, p. 98.
D). Provide shading to 25% of hardscapes: This is related toSS Credit: Heat Island Reduction, not the No Invasive Plants prerequisite.Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Heat Island Reduction, p. 80.
TheLEED AP Homes Candidate Handbookemphasizes SS prerequisites, including invasive plant prevention, and references theLEED Reference Guide for Homes Design and Constructionas a key resource. The exam is based onLEED v4, ensuring the relevance of USDA verification.
References:
LEED Reference Guide for Homes Design and Construction, v4, USGBC, Sustainable Sites Prerequisite: No Invasive Plants, p. 72.
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 invasive plant verification.

NEW QUESTION # 64
In order for a project to earn Innovation Credit, LEED AP for Homes, the LEED AP for Homes must be a principal member of the:

- A. Verification team and possess the credential prior to preliminary rating

- B. Project team and possess the credential prior to preliminary rating
- C. Verification team and possess the credential prior to project registration
- D. Project team and possess the credential prior to project registration

Answer: D

Explanation:
TheLEED for Homes Rating System (v4)includes theInnovation (IN) Credit: LEED Accredited Professional, which awards a point for having a LEED AP for Homes as a principal member of the project team to guide sustainable design and certification.
According to theLEED Reference Guide for Homes Design and Construction (v4):
IN Credit: LEED Accredited Professional (1 point)
At least one principal participant of the project team must be a LEED AP for Homes and hold the credential prior to project registration. The LEED AP must be actively involved in the project to ensure effective implementation of LEED strategies.
Source: LEED Reference Guide for Homes Design and Construction, v4, Innovation Credit: LEED Accredited Professional, p. 189.
TheLEED v4.1 Residential BD+Crating system confirms:
IN Credit: LEED Accredited Professional
The LEED AP for Homes must be a principal member of the project team (not the verification team) and possess the credential before project registration to earn the credit.
Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.
The correct answer isproject team and possess the credential prior to project registration(Option B), as this meets the credit's requirements for the LEED AP's role and timing.
Why not the other options?
* A. Project team and possess the credential prior to preliminary rating: The credential must be held before project registration, not preliminary rating.
* C. Verification team and possess the credential prior to preliminary rating: The LEED AP must be on the project team, not the verification team.
Reference: LEED Reference Guide for Homes Design and Construction, v4, IN Credit: LEED Accredited Professional, p. 189.
TheLEED AP Homes Candidate Handbookemphasizes IN credits, including the LEED AP role, and references theLEED Reference Guide for Homes Design and Constructionas a key resource. The exam is based onLEED v4, ensuring the relevance of the project team requirement.
References:
LEED Reference Guide for Homes Design and Construction, v4, USGBC, Innovation Credit: LEED Accredited Professional, p. 189.
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 LEED AP requirements.

NEW QUESTION # 65
The owner requires a fireplace in a new house and is pursuing LEED for Homes certification. Which of the following strategies is acceptable?

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

Answer: B

Explanation:
TheLEED for Homes Rating System (v4)addresses fireplaces in theIndoor Environmental Quality (EQ) Credit: Enhanced Combustion Venting, which promotes safe combustion practices to prevent indoor air quality issues from fireplaces.
According to theLEED 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.
TheLEED v4.1 Residential BD+Crating 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 isinstall 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.
TheLEED AP Homes Candidate Handbookemphasizes EQ credits, including combustion venting, and references theLEED Reference Guide for Homes Design and Constructionas a key resource. The exam is based onLEED 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/leed-homes-design-and-construction-v4).
LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming fireplace venting requirements.

NEW QUESTION # 66
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