

LEED-AP-Homes Vorbereitungsfragen & LEED-AP-Homes Prüfungsfrage

Wofür steht der Begriff Laser?

Antwort: Light Amplification by Stimulated Emission of Radiation

Welche Eigenschaften hat die Laserstrahlung?

Antwort:

- hohe Strahlungsintensität
- großer Wellenlängenbereich (Millimeter bis Nanometer)
- kontinuierlich oder gepulste Strahlung

Welche Lasertypen gibt es?

Antwort:

- Festkörperlaser
- Gaslaser
- Farbstofflaser
- Halbleiterlaser

Aus welchen Hauptkomponenten besteht ein Laser?

Antwort:

- Pumpquelle (Anregungsquelle)
- laseraktives Medium
- Resonator (reflektierender Spiegel und teildurchlässiger Spiegel)

Wie arbeitet ein Laser? Was passiert im laseraktiven Medium?

Antwort:

- Energiezufuhr durch optisches Pumpen (Elektronen auf höheres Energieniveau $E_0 \rightarrow E_1$)
- strahlungsloser Übergang in E_2 unter Abgabe von Wärme
- Übergang von E_2 in E_1 unter Abgabe von Laserstrahlung (Photonen)
- Weitere Photonen werden angeregt mit gleicher Wellenlänge, Frequenz und Ausbreitungsrichtung
- durch Spiegel wird Laserstrahlung reflektiert und kann weitere Photonen anregen

Welche Laser- bzw. Prozessparameter sind für die Mikrobearbeitung von Bedeutung?

Antwort:

- Wellenlänge, Leistung, Signalform, Strahlqualität, Polarisation des Laserstrahls
- Brennweite, Apertur, Abbildungsfehler
- Absorption, Wärmeleitfähigkeit, Dichte, Wärmekapazität, Schmelztemperatur, Verdampfungstemperatur, Werkstückgeometrie
- Schmelze: Oberflächenspannung, Viskosität
- Dampfphase: Dampfdichte, Elektronendichte, Temperatur (-gradient), Plasmaabsorption

Wie verändert sich die Intensität im Fokus des Laserstrahls bei Erhöhung der Brennweite?

Antwort: Intensität wird geringer, Abtrag außerhalb der Fokus wird größer

Wie ändert sich die Wellenlänge bei Frequenzverdopplung?

Antwort: die Wellenlänge ist halb so groß

Von welchen Parametern hängt die Größe der Laserabsorption ab?

Antwort: von der Wellenlänge und vom Material

Bevor Sie sich für ZertFragen entscheiden, können Sie die USGBC LEED-AP-Homes Examensfragen und antworten teilweise als Probe kostenlos herunterladen. So können Sie die Glaubwürdigkeit vom ZertFragen testen. Der ZertFragen ist die beste Wahl für Sie, wenn Sie die USGBC LEED-AP-Homes Zertifizierungsprüfung unter Garantie bestehen wollen. Wenn Sie sich für den ZertFragen entscheiden, wird der Erfolg auf Sie zukommen.

Wenn Sie IT-Industrie auswählen, wählen Sie nämlich die gutbezahlte Arbeit und bessere Aussichten. Deshalb wollen immer mehr Leute das IT-Zertifikat besitzen. Und heute nehmen immer mehr Leute an USGBC LEED-AP-Homes Zertifizierungsprüfung teil. Und wir ZertFragen bieten Kadidaten die echten Prüfungsfragen und -antworten mit günstigen Preisen und höher Qualität. Und Wir ZertFragen bieten Ihnen einjährigen kostenlosen Aktualisierungsservice. Und unsere LEED-AP-Homes Prüfungsunterlagen sind schon bereit. Wir ZertFragen sind der führende Lieferant der Prüfungsunterlagen. Wir haben die neuesten und die richtigsten USGBC LEED-AP-Homes Zertifizierungsunterlagen, nämlich die Prüfungsfragen und die Testantworten.

>> LEED-AP-Homes Vorbereitungsfragen <<

LEED-AP-Homes Prüfungsfrage & LEED-AP-Homes Zertifizierungsprüfung

Es gibt ein Sprichwort, das Spiel beendet, wenn Sie es aufgeben. Die Prüfung ist ähnlich wie das Spiel. Viele geben die USGBC LEED-AP-Homes Zertifizierungsprüfungen auf, wenn sie nicht genug Zeit haben. Aber Sie können LEED-AP-Homes Prüfung mit guter Note bestehen, wenn Sie die richtige exam Fragen benutzen trotz kurzer Zeit. Glauben Sie nicht? Dann müssen sie die LEED-

USGBC LEED-AP-Homes Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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.
Thema 2	• 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.
Thema 3	• 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.

USGBC LEED AP Homes (Residential) Exam LEED-AP-Homes Prüfungsfragen mit Lösungen (Q45-Q50):

45. Frage

Points can be earned for Energy and Atmosphere Credit: Efficient Hot Water Distribution System, Option 1 through which of the following measures?

- A. Insulating all domestic hot water piping to R-4
- **B. Limiting branch line length**
- C. Installing central manifold distribution
- D. Installing demand-controlled recirculation

Antwort: B

Begründung:

The LEED for Homes Rating System (v4) includes the Energy and Atmosphere (EA) Credit: Efficient Hot Water Distribution System, which aims to reduce energy and water waste in hot water delivery. Option 1:

Length of Piping focuses on minimizing the length of hot water piping to reduce heat loss and delivery time.

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

EA Credit: Efficient Hot Water Distribution System, Option 1. Length of Piping (1-2 points) Design and install the hot water distribution system to meet one of the following requirements:

* Maximum branch line length: The length of any branch line from the water heater or hot water source to any fixture must not exceed 20 feet (6 meters) for 1 point, or 10 feet (3 meters) for 2 points. This reduces the volume of water that must be purged before hot water reaches the fixture, saving energy and water. Source: LEED Reference Guide for Homes Design and Construction, v4, Energy and Atmosphere Credit: Efficient Hot Water Distribution System, p. 132.

The LEED v4.1 Residential BD+C rating system maintains this requirement:

EA Credit: Efficient Hot Water Distribution

Option 1: Limit the length of branch lines from the water heater to fixtures to 20 feet (6 meters) for 1 point or 10 feet (3 meters) for 2 points.

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

Limiting branch line length (Option A) directly aligns with Option 1 of this credit, as it reduces the distance hot water must travel, minimizing heat loss and water waste.

Why not the other options?

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

C). Installing demand-controlled recirculation: This is part of Option 3: Demand-Controlled Recirculation in LEED v4, where recirculation systems are activated only when hot water is needed (e.g., via a button or motion sensor). It is not part of Option 1. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Efficient Hot Water Distribution System, p. 133.

D). Insulating all domestic hot water piping to R-4: While pipe insulation is a best practice and may be required in some EA credits

(e.g., EA Prerequisite: Minimum Energy Performance), it is not a specific requirement for Option 1 of the Efficient Hot Water Distribution System credit. Insulation reduces heat loss but does not address branch line length. 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 credits, including hot water distribution, 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 Option 1's focus on branch line length.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Energy and Atmosphere Credit: Efficient Hot Water Distribution System, p. 132-133.

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 branch line length criteria.

46. Frage

The design charrette must occur no later than which phase in order to earn the Integrative Process Credit, Option 2: Design Charrette?

- A. Bid Solicitation
- B. Design Development
- **C. Schematic Design**
- D. Construction Drawings

Antwort: C

Begründung:

The LEED for Homes Rating System (v4) includes the Integrative Process (IP) Credit: Integrative Process, Option 2: Design Charrette, which requires a collaborative meeting early in the design process to integrate green strategies.

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

IP Credit: Integrative Process, Option 2: Design Charrette (1 point)

Conduct a design charrette no later than the schematic design phase to ensure early integration of green strategies across all project aspects, including energy, water, 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: Design Charrette

The charrette must occur no later than the schematic design phase to effectively influence the project's sustainability goals and design decisions.

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

The correct answer is Schematic Design (Option B), as the charrette must occur by this phase to ensure early integration of sustainable strategies.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, IP Credit: Integrative Process, p. 45.

C). Design Development: This is later than schematic design, reducing the charrette's impact on early design decisions. Reference: LEED Reference Guide for Homes Design and Construction, v4, IP Credit: Integrative Process, p. 45.

D). Construction Drawings: This is a final design phase, far too late for integrative planning. 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 the timing of the design charrette, 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 schematic design phase.

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 charrette timing.

47. Frage

Which of the following team members must attend the entire meeting to earn the Trades Training Credit?

- A. Site supervisor or superintendent
- B. Project architect
- C. Mechanical contractor
- D. Air sealing and insulation contractor

Antwort: C

Begründung:

The LEED for Homes Rating System (v4) includes the Integrative Process (IP) Credit: Integrative Process, Option 2: Trades Training, which requires training for key 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)

The mechanical contractor (responsible for HVAC systems) must attend the entire four-hour training session to ensure proper installation and operation of energy-efficient systems critical to LEED compliance. Other trades, such as air sealing and insulation contractors, are also encouraged but not explicitly required to attend the full session.

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

The mechanical contractor, as a key trade responsible for energy-related systems, must participate fully in the four-hour training to meet the credit requirements, ensuring expertise in sustainable HVAC installation.

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

The correct answer is mechanical contractor (Option B), as their full attendance is critical due to the importance of HVAC systems in achieving LEED energy goals.

Why not the other options?

* A. Project architect: Architects are part of the design team, not typically required for trades training.

* C. Site supervisor or superintendent: While important, they oversee general construction, not specific system installation.

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 mechanical contractor attendance.

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 requirements.

48. Frage

Of the following recommended strategies, which will receive credit under Sustainable Sites: Nontoxic Pest Control?

- A. Seal all external cracks, joints, penetrations, edges, and entry points with caulking
- B. Design and install plastic barrier systems around pipes and electrical conduit extending through slab foundations
- C. Use a sealed-to-the-wall vapor barrier for homes with crawl spaces on the floor or beneath a concrete slab
- D. Install plantings and landscaping elements that repel pests and encourage biodiversity

Antwort: A

Begründung:

The LEED for Homes Rating System (v4) includes the Sustainable Sites (SS) Credit: Nontoxic Pest Control, which awards points for strategies that prevent pest entry without relying on toxic chemicals.

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

SS Credit: Nontoxic Pest Control (1 point)

Implement physical barriers to prevent pest entry, such as sealing all external cracks, joints, penetrations, edges, and entry points with caulking or other durable materials to reduce the need for chemical pest control.

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

Sealing external cracks, joints, and penetrations with caulking is a primary strategy to earn points by preventing pest access in a nontoxic manner.

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

The correct answer is seal all external cracks, joints, penetrations, edges, and entry points with caulking (Option A), as this is a direct, physical pest control strategy recognized by the credit.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Site Development - Protect or Restore Habitat, p. 74.

C). Use a sealed-to-the-wall vapor barrier for homes with crawl spaces: Vapor barriers address moisture, not pest control, and are not part of this credit. Reference: LEED Reference Guide for Homes Design and Construction, v4, no mention in SS Credit: Nontoxic Pest Control.

D). Design and install plastic barrier systems around pipes and electrical conduit: While barriers may help, only caulking or similar sealing methods are explicitly recognized 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 sealing strategies.

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).

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 pest control strategies.

49. Frage

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**

Antwort: D

Begründung:

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.

50. Frage

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Mit der Entwicklung des Zeitalters machen nicht nur die Zivilisation, sondern auch Zertfragen Fortschritt. Damit Sie so schnell wie möglich das USGBC LEED-AP-Homes Zertifikat erhalten und erhöhtes Gehalt erhalten können, strengen wir uns Zertfragen immer an. Nach mehrjährigen Bemühungen beträgt die Erfolgsquote der USGBC LEED-AP-Homes Zertifizierungsprüfung von Zertfragen bereits 100%. Wählen Sie Zertfragen, dann wählen Sie Erfolg.

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