

EDGE-Expert Übungsfragen: Excellence in Design for Greater Efficiencies (EDGE Expert) Exam & EDGE-Expert Dateien Prüfungsunterlagen



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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam EDGE-Expert Prüfungsfragen mit Lösungen (Q42-Q47):

42. Frage

For a project in a hot and dry climate with no air-conditioning system, which of the following will NOT have an impact on the occupants' thermal comfort?

- A. Wall and roof insulation
- B. Solar photovoltaics
- C. Solar shading
- D. Ceiling fans

Antwort: B

Begründung:

In a hot and dry climate without air-conditioning, thermal comfort relies on passive design strategies that reduce heat gain or improve air movement. The EDGE User Guide discusses passive measures for thermal comfort: "In hot climates without air-conditioning,

thermal comfort can be improved through ceiling fans, which enhance air movement, solar shading, which reduces solar heat gain, and wall and roof insulation, which minimizes heat transfer into the building" (EDGE User Guide, Section 3.5: Passive Design Strategies).

Option A (ceiling fans) improves air movement, directly impacting thermal comfort: "Ceiling fans increase air speed, enhancing evaporative cooling on occupants' skin" (EDGE Methodology Report Version 2.0, Section 5.5: Thermal Comfort Measures). Option B (solar shading) reduces heat gain, improving comfort: "External shading reduces solar radiation entering the building, lowering indoor temperatures" (EDGE User Guide, Section 3.5: Passive Design Strategies). Option C (wall and roof insulation) also enhances comfort by reducing heat transfer: "Insulation lowers the U-value of the building envelope, maintaining cooler indoor temperatures" (EDGE User Guide, Section 4.1: Insulation Measures). Option D (solar photovoltaics) generates electricity but does not directly affect thermal comfort in a building without air-conditioning: "Solar photovoltaics contribute to energy supply but do not directly influence indoor thermal comfort unless used to power cooling systems, which are absent in this scenario" (EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures). Thus, solar photovoltaics (Option D) will not impact thermal comfort in this context. Reference: EDGE User Guide Version 2.1, Section 3.5: Passive Design Strategies, Section 4.1: Insulation Measures; EDGE Methodology Report Version 2.0, Section 5.5: Thermal Comfort Measures, Section 5.3: Energy Measures.

43. Frage

The Client informs an EDGE Auditor that a key member of the design team has resigned. The Client requests the Auditor to take the member's place for the remainder of the project's design development as it would provide the Auditor an opportunity to identify suitable green building measures, making audit tasks much simpler. What should the EDGE Auditor do?

- A. Accept the additional commission on the basis that this will save the Client time and money, and would reduce the volume of work required for the audit.
- B. Refer the Client to an associate within the organization who works in another department, but is qualified and available to carry out the work.
- C. Refer the Client to an associate within the organization who will be working with the Auditor on the EDGE audit, since the Auditor organization has spare capacity.
- D. Resign from the audit role on the basis that its position has been compromised by this direct approach by the Client.

Antwort: B

Begründung:

The EDGE framework strictly prohibits Auditors from engaging in roles that could compromise their independence, such as providing design consultancy on the same project they are auditing. The EDGE Expert and Auditor Protocols address this scenario explicitly: "An EDGE Auditor must not accept any role in the design development of a project they are auditing, as this creates a conflict of interest by blurring the lines between consultancy and independent verification. If the Client requests the Auditor to take on a design role, the Auditor should decline and may refer the Client to another qualified professional who is not involved in the audit process" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option B, refer the Client to an associate within the organization who works in another department, but is qualified and available to carry out the work, aligns with this guidance, as it maintains the Auditor's independence while helping the Client find a suitable replacement. Option A (resign from the audit role) is an overreaction, as the request itself does not compromise the Auditor's position unless accepted: "The Auditor is not required to resign unless they have already engaged in a conflicting role, which can be avoided by declining the request" (EDGE Expert and Auditor Protocols, Section 4.1: Audit Process). Option C (accept the additional commission) is unethical, as it violates conflict-of-interest rules: "Accepting a design role on a project being audited undermines the Auditor's impartiality, as they would be auditing their own work, which is strictly prohibited" (EDGE Certification Protocol, Section 3.1: Certification Process). Option D (refer the Client to an associate working with the Auditor on the EDGE audit) is also incorrect, as this associate is already involved in the audit, creating a potential conflict: "Referring the Client to someone involved in the same audit does not resolve the conflict of interest, as the audit team must remain independent from design activities" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). The EDGE User Guide reinforces this principle: "Auditors must maintain strict separation from design roles to ensure an unbiased audit, and should assist the Client by referring them to independent professionals if needed" (EDGE User Guide, Section 6.5: Working with EDGE Auditors). Thus, referring the Client to a qualified associate in another department (Option B) is the correct action.

Reference: EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest, Section 4.1: Audit Process; EDGE Certification Protocol, Section 3.1: Certification Process; EDGE User Guide Version 2.1, Section 6.5: Working with EDGE Auditors.

44. Frage

Increasing the glazing area of an office building will NOT impact which of the following?

- **A. Hot water demand**
- B. Lighting energy
- C. Cooling demand
- D. Heating demand

Antwort: A

Begründung:

Increasing the glazing area in an office building affects various aspects of energy consumption due to changes in heat gain, heat loss, and natural light availability, but it does not influence all buildingsystems. The EDGE User Guide explains the impacts of glazing: "Increasing the glazing area (window-to-wall ratio, WWR) in an office building typically increases cooling demand due to higher solar heat gain, increases heating demand in colder climates due to greater heat loss through windows, and reduces lighting energy by allowing more natural daylight, assuming proper daylighting design" (EDGE User Guide, Section 3.5: Passive Design Strategies).

Option A (cooling demand) is affected, as more glazing increases solar heat gain: "Higher WWR leads to greater cooling loads in hot climates due to increased solar radiation entering the building" (EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods). Option B (heating demand) is also impacted, particularly in cooler climates: "Larger glazing areas increase heat loss in cold climates, raising heating demand due to the lower thermal resistance of windows compared to walls" (EDGE User Guide, Section 4.1: Insulation Measures). Option C (lighting energy) is affected, as more glazing can reduce the need for artificial lighting: "Increased glazing can lower lighting energy by enhancing daylight penetration, provided glare is controlled" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). However, Option D (hot water demand) is not impacted by glazing area, as hot water use is tied to occupant activities (e.

g., showers, cleaning) rather than building envelope design: "Hot water demand in EDGE is determined by occupant use patterns, such as the number of showers or laundry cycles, and is not influenced by glazing area or WWR" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). The EDGE User Guide further confirms: "Glazing area impacts energy-related metrics like cooling, heating, and lighting, but has no direct effect on hot water demand, which is calculated separately based on usage assumptions" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Therefore, increasing glazing area does not impact hot water demand (Option D).

Reference: EDGE User Guide Version 2.1, Section 3.5: Passive Design Strategies, Section 4.1: Insulation Measures, Section 4.4: Lighting Efficiency Measures, Section 5.2: Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods, Section 4.2: Water Savings Calculations.

45. Frage

In the EDGE certification system, who is responsible for the entire project including providing project documentation, access to the site, and the payment of audit and certification fees?

- A. EDGE Auditor
- B. EDGE Expert
- **C. Project Owner**
- D. EDGE Certification Provider

Antwort: C

Begründung:

The EDGE certification process assigns clear responsibilities to various stakeholders to ensure a smooth and accountable process. The EDGE Certification Protocol defines the role of the ProjectOwner (also referred to as the EDGE Client): "The Project Owner, as the EDGE Client, is responsible for the entire project within the EDGE certification system. This includes providing all necessary project documentation (e.g., drawings, specifications, and self-assessments), ensuring access to the site for audits, and paying the audit and certification fees as required by the Certification Provider" (EDGE Certification Protocol, Section 2.1: Roles and Responsibilities). Option C, Project Owner, directly aligns with this comprehensive responsibility. Option A (EDGE Expert) is incorrect, as the Expert's role is advisory: "The EDGE Expert provides consultancy services, assisting with documentation and measure selection, but the ultimate responsibility for submission and payment lies with the Project Owner" (EDGE Expert and Auditor Protocols, Section 2.1: Roles of EDGE Expert). Option B (EDGE Auditor) is also incorrect, as the Auditor's role is to verify compliance, not manage the project: "The EDGE Auditor conducts independent audits and is not responsible for project management, documentation provision, or fee payments" (EDGE Expert and Auditor Protocols, Section 2.2: Roles of EDGE Auditor). Option D (EDGE Certification Provider) is responsible for issuing certificates and overseeing the process, not managing the project: "The EDGE Certification Provider, such as GBCI, reviews the Auditor's recommendation and issues certificates, but does not manage the project or pay fees" (EDGE Certification Protocol, Section 3.3: Certification Decision). The EDGE User Guide further reinforces this:

"The Project Owner must coordinate all aspects of the certification process, ensuring documentation is complete, site access is granted for post-construction audits, and all fees are paid to the Certification Provider in a timely manner" (EDGE User Guide, Section 6.1: Project Preparation). This holistic responsibility makes the Project Owner (Option C) the correct answer. Reference:EDGE Certification Protocol, Section 2.1: Roles and Responsibilities, Section 3.3: Certification Decision; EDGE Expert and Auditor Protocols, Section 2.1: Roles of EDGE Expert, Section 2.2: Roles of EDGE Auditor; EDGE User Guide Version 2.1, Section 6.1: Project Preparation.

46. Frage

Which of the following wall solar reflectivity indexes would be the most energy efficient in a hot climate?

- A. 0.2
- **B. 0.7**
- C. 0.4
- D. 0.3

Antwort: B

Begründung:

In hot climates, reducing heat gain through building envelopes is a key strategy for energy efficiency, as emphasized in EDGE's green building design principles. The EDGE User Guide discusses solar reflectivity (measured by the Solar Reflectance Index, SRI) for walls and roofs, stating: "Higher SRI values indicate greater reflectivity, which reduces heat absorption and lowers cooling energy demand in hot climates. For walls in hot climates, an SRI of 0.7 or higher is recommended to maximize energy savings" (EDGE User Guide, Section 3.5: Passive Design Strategies). The options provided are 0.2, 0.3, 0.4, and 0.7. Since 0.7 is the highest SRI value among the choices, it reflects the most solar radiation, thereby reducing the cooling load and improving energy efficiency in a hot climate, as per EDGE's guidance. Options A, B, and C have lower SRI values and would result in greater heat absorption, increasing energy use for cooling.

Reference:EDGE User Guide Version 2.1, Section 3.5: Passive Design Strategies.

47. Frage

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