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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q16-Q21):

NEW QUESTION # 16

Which of the following elements is considered in EDGE to estimate water use in homes?

- A. HVAC
- B. Solar water heaters
- C. Exterior fountains
- **D. Water heating**

Answer: D

Explanation:

The EDGE software estimates water use in homes by considering elements that contribute to potable water demand, focusing on indoor and occupant-related usage. The EDGE User Guide details the elements included in water use calculations: "In EDGE, water use in homes is estimated based on occupant activities, including water for showers, faucets, toilets, laundry, and water heating, which accounts for hot water demand in these applications. These elements are modeled using standard usage assumptions for residential buildings" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Option B, water heating, is explicitly included, as it represents the hot water demand for showers, faucets, and laundry, which is a significant component of residential water use. Option A (HVAC) is incorrect, as HVAC systems primarily consume energy, not water, except in specific cases like cooling towers, which are not typical in homes: "HVAC systems in homes, such as air conditioners, do not directly contribute to water use in EDGE calculations, unlike in commercial buildings with cooling towers" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Option C (exterior fountains) is also excluded, as EDGE focuses on indoor water use: "Exterior water use, such as for fountains or irrigation, is not typically included in EDGE's water use estimates for homes, unless specifically modeled as an optional measure, which fountains are not" (EDGE User Guide, Section 5.3: Additional Water Efficiency Measures). Option D (solar water heaters) is a measure to reduce energy use for water heating, not an element of water use itself: "Solar water heaters reduce the energy demand for water heating but do not change the volume of water used, which is what EDGE estimates for water use in homes" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). The EDGE Methodology Report further specifies: "Water use in homes is calculated based on per-capita assumptions for activities like showering, flushing, and water heating, ensuring a standardized baseline for savings calculations" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Thus, water heating (Option B) is the element considered in EDGE to estimate water use in homes. Reference: EDGE User Guide Version 2.1, Section 5.2: Water Efficiency Measures, Section 5.3: Additional Water Efficiency Measures, Section 4.2: Energy Efficiency Measures; EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations.

NEW QUESTION # 17

In the EDGE software, what is the unit of the embodied carbon of the material?

- A. MJ
- B. kWh
- **C. kgCO₂**
- D. BTU

Answer: C

Explanation:

Embodied carbon in EDGE refers to the carbon emissions associated with the production, transportation, and installation of building materials, a key metric for materials efficiency. The EDGE User Guide specifies how this is measured: "In the EDGE software, the embodied carbon of materials is quantified in kilograms of carbon dioxide equivalent (kgCO₂), reflecting the total greenhouse gas emissions associated with the material's lifecycle, from extraction to installation" (EDGE User Guide, Section 7.2: Materials Efficiency Measures).

Option A, kgCO₂, directly matches this unit, as EDGE uses kgCO₂ to standardize carbon emissions across materials, allowing for comparison and aggregation in the software's results. Option B (MJ) is incorrect, as MJ (megajoules) measures embodied energy, not carbon: "Embodied energy in EDGE is measured in MJ, representing the energy consumed in material production, while embodied carbon is separately calculated in kgCO₂ to assess environmental impact" (EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials). Option C (BTU) is also incorrect, as BTU (British Thermal Units) is an energy unit not used in EDGE for carbon calculations: "EDGE uses metric units like MJ for energy and kgCO₂ for carbon; BTU is not a standard unit in the software" (EDGE User Guide, Section 2.3: Using the EDGE App). Option D (kWh) is another energy unit, typically used for operational energy, not embodied carbon: "kWh is used in EDGE to measure operational energy consumption, such as electricity

use, but not for embodied carbon, which is always in kgCO₂" (EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods). The EDGE User Guide further clarifies: "The software displays embodied carbon in kgCO₂ to align with global carbon accounting standards, enabling users to understand the environmental footprint of their material choices" (EDGE User Guide, Section 7.2: Materials Efficiency Measures). The EDGE Methodology Report adds: "For example, concrete might have an embodied carbon of 0.15 kgCO₂ per kg, allowing users to compare materials like fly ash concrete versus standard concrete in terms of carbon impact" (EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials). Thus, the unit of embodied carbon in EDGE is kgCO₂ (Option A).

Reference:EDGE User Guide Version 2.1, Section 7.2: Materials Efficiency Measures, Section 2.3: Using the EDGE App; EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials, Section 5.2: Energy Calculation Methods.

NEW QUESTION # 18

Which of the following passive design features is considered within the EDGE calculation methodology?

- A. Efficient cooling system
- B. Renewable energy
- C. Lighting controls
- **D. External shading**

Answer: D

Explanation:

Passive design features in EDGE focus on reducing energy demand through architectural and design strategies that minimize the need for active systems. The EDGE User Guide lists passive design measures included in its methodology: "Passive design features in EDGE include external shading, natural ventilation, insulation, and high-reflectivity materials, which reduce energy demand for heating, cooling, and lighting by leveraging climate and site conditions" (EDGE User Guide, Section 3.5: Passive Design Strategies). Option B, external shading, is explicitly mentioned as a passive design feature that reduces solar heat gain, thereby lowering cooling energy needs. Option A (lighting controls) is an active measure, not passive, as it involves electrical systems. Option C (renewable energy) is an energy generation measure, not a passive design strategy, as noted in the EDGE Methodology Report: "Renewable energy systems like solar PV are treated as energy supply measures, not passive design" (EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures). Option D (efficient cooling system) is also an active system, not passive. Thus, external shading (Option B) is the correct passive design feature within EDGE's calculation methodology.

Reference:EDGE User Guide Version 2.1, Section 3.5: Passive Design Strategies; EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures.

NEW QUESTION # 19

Is it possible to be both the EDGE Expert and Auditor on a project?

- A. Yes, they can be both an EDGE Auditor and EDGE Expert in all cases.
- **B. No, an EDGE Expert cannot be the EDGE Auditor on the same project.**
- C. Yes, but only in the case that there are no other EDGE Auditors available for the project.
- D. No, even if EDGE Certifier agrees to special terms to have no conflict of interest.

Answer: B

Explanation:

The EDGE framework strictly enforces separation of roles to maintain integrity and avoid conflicts of interest during the certification process. The EDGE Expert and Auditor Protocols explicitly address this issue: "An individual cannot serve as both the EDGE Expert and EDGE Auditor on the same project. This separation ensures independence in the audit process, as the Expert's role as a consultant advising the project team could bias the Auditor's objective assessment of the project's compliance with EDGE standards" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option A, no, an EDGE Expert cannot be the EDGE Auditor on the same project, directly reflects this rule. Option B (no, even if the Certifier agrees to special terms) adds an unnecessary condition, as the protocols do not allow exceptions: "No exceptions are permitted for an individual to serve in both roles on the same project, regardless of agreements or special terms" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option C (yes, in all cases) is incorrect, as it contradicts the conflict-of-interest rules: "Allowing dual roles in all cases would undermine the impartiality required for certification" (EDGE Certification Protocol, Section 3.1: Certification Process). Option D (yes, if no other Auditors are available) is also incorrect, as availability does not override the conflict-of-interest prohibition: "Even if no other Auditors are available, the roles must remain separate; the Client must find a different Auditor or delay the audit" (EDGE Expert and Auditor Protocols, Section 4.1: Audit Process). The EDGE User Guide reinforces this principle: "The separation of

Expert and Auditor roles ensures a fair and unbiased certification process, protecting the credibility of EDGE certification" (EDGE User Guide, Section

6.4: Working with EDGE Experts). Thus, it is not possible to be both (Option A).

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 6.4:

Working with EDGE Experts.

NEW QUESTION # 20

During an EDGE audit for a project, the Auditor discovers that members of the design team have provided misleading information on certain green building measures to the Client. This incorrect information has unknowingly been used by the Client to support their application for EDGE certification. What should the EDGE Auditor do?

- A. Call the offending design team member and negotiate a friendly solution.
- B. Reject the information and adjust the EDGE assessment accordingly, returning the assessment to the Client.
- C. Contact the Client and warn them of the deception, pointing out the design team members at fault.
- **D. Contact the design team and recommend that they provide updated and correct information.**

Answer: D

Explanation:

EDGE Auditors are bound by ethical protocols to maintain professionalism and independence when encountering issues like misleading information. The EDGE Expert and Auditor Protocols outline the procedure: "If an EDGE Auditor discovers misleading or incorrect information during an audit, they must contact the design team to recommend that they provide updated and correct information to the Client. The Auditor should document the issue in the audit report but must not adjust the assessment themselves or take punitive actions, ensuring the process remains transparent and fair" (EDGE Expert and Auditor Protocols, Section 4.3: Handling Discrepancies). Option B, contacting the design team to recommend updated information, aligns with this protocol. Option A (negotiate a friendly solution) violates the Auditor's impartiality: "Auditors must avoid direct negotiations that could compromise their independence" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option C (warn the Client of deception) oversteps the Auditor's role by assigning blame: "Auditors should not accuse parties of deception but focus on facilitating corrections" (EDGE Expert and Auditor Protocols, Section 4.3: Handling Discrepancies).

Option D (reject and adjust the assessment) is incorrect, as Auditors cannot modify assessments: "Auditors must assess the project as submitted and cannot reject or adjust measures on their own" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Thus, recommending corrections to the design team (Option B) is the appropriate action.

Reference:EDGE Expert and Auditor Protocols, Section 4.3: Handling Discrepancies, Section 2.3: Conflict of Interest; EDGE Certification Protocol, Section 3.2: Audit Requirements.

NEW QUESTION # 21

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