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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q93-Q98):

NEW QUESTION # 93

In the EDGE software, which of the following methodologies is used for energy calculations?

- A. Dynamic Simulation model
- B. Look-up tables of benchmarks Rules of thumb
- **C. Quasi-steady-state model**
- D. Actual energy data from field survey

Answer: C

Explanation:

The EDGE software uses a quasi-steady-state calculation methodology for estimating building energy performance. This approach simplifies energy modeling by calculating heat gains and losses based on steady- state assumptions over defined time intervals, rather

than performing detailed hour-by-hour simulations. The quasi-steady-state method allows EDGE to provide rapid and consistent energy performance assessments while maintaining sufficient technical accuracy for early design decision-making. Unlike dynamic simulation models, which require complex input data, specialized software, and detailed operational schedules, the EDGE methodology is designed to be accessible and user-friendly for architects, engineers, and developers in emerging markets. It evaluates energy performance by comparing a baseline case, derived from local climate data and standard building practices, with an improved case reflecting selected energy efficiency measures. Actual field survey energy data is not used because EDGE is primarily a design-stage predictive tool rather than a post-occupancy measurement system. Similarly, the calculations are not based solely on simplified look-up tables or rules of thumb. The quasi-steady-state model strikes a balance between technical rigor and usability, which is a core principle emphasized in the CBCI EDGE curriculum.

NEW QUESTION # 94

Which of the following must be included in the EDGE Auditor submission for Preliminary Certification?

- A. The Chapter 5 EDGE certification protocol.
- B. All of the available design data.
- **C. Compliance documents for selected measures.**
- D. The design audit site visit results verified by the EDGE Auditor.

Answer: C

Explanation:

The EDGE Auditor's submission for Preliminary Certification (design stage) must include specific elements to support the recommendation for certification. The EDGE Certification Protocol specifies: "For Preliminary Certification, the EDGE Auditor's submission must include compliance documents for the selected measures, such as drawings, specifications, and manufacturer's data sheets, which verify that the design aligns with the self-assessment in the EDGE software. These documents are reviewed by the Certification Provider to confirm eligibility" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option C, compliance documents for selected measures, directly matches this requirement. Option A (all available design data) is too broad and not required: "Only documents directly related to the selected measures are needed, not all design data" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option B (Chapter 5 EDGE certification protocol) is incorrect, as this refers to the protocol document itself, not a submission component:

"The certification protocol is a reference, not part of the Auditor's submission" (EDGE Certification Protocol, Section 1.1: Overview). Option D (design audit site visit results) is incorrect, as site visits are not required at the design stage: "Preliminary Certification is based on a desk audit, not a site visit, which occurs at the post- construction stage" (EDGE Certification Protocol, Section 3.3: Certification Decision). Thus, compliance documents (Option C) are required in the submission.

Reference:EDGE Certification Protocol, Section 3.2: Audit Requirements, Section 3.3: Certification Decision, Section 1.1: Overview.

NEW QUESTION # 95

To claim efficiency measure Insulation for Cold Storage Envelope, which of the following documents is required as evidence at the preliminary certification stage?

- A. Calculations of Coefficient of Performance (COP)
- **B. Drawing(s) showing the U-value specification of the cold storage envelope**
- C. Purchase receipts showing the U-value specification of the cold storage envelope
- D. Manufacturer's data sheets for the HVAC system

Answer: B

Explanation:

The preliminary certification stage requires specific documentation to verify the implementation of efficiency measures like Insulation for Cold Storage Envelope. The EDGE Certification Protocol outlines the evidence requirements: "For measures involving insulation, such as Insulation for Cold Storage Envelope, the Client must provide drawings at the preliminary certification stage that specify the U-value of the installed insulation to demonstrate compliance with the measure's requirements. The U-value must be lower than the Base Case to qualify for savings" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option C, drawings showing the U-value specification of the cold storage envelope, directly aligns with this requirement. Option A (calculations of Coefficient of Performance) is irrelevant, as COP applies to HVAC systems, not insulation:

"COP is used for chillers, not insulation measures" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option B (manufacturer's data sheets for the HVAC system) is also unrelated, as the measure focuses on the envelope, not HVAC: "HVAC

documentation is not required for insulation measures" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option D (purchase receipts showing the U-value) is more relevant at the post-construction stage: "Purchase receipts are typically required at the post-construction stage to confirm installation, while drawings suffice for design-stage verification" (EDGE Certification Protocol, Section 3.4: Post-Construction Requirements). Thus, drawings with U-value specifications (Option C) are required at preliminary certification.

Reference:EDGE Certification Protocol, Section 3.2: Audit Requirements, Section 3.4: Post-Construction Requirements; EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures.

NEW QUESTION # 96

The calculation of the embodied energy of materials within the EDGE software excludes

- A. raw materials extraction.
- **B. material wastage during construction.**
- C. manufacturing of the material.
- D. raw material wastage during manufacturing.

Answer: B

Explanation:

According to the CBCI EDGE curriculum, the embodied energy calculation in the EDGE software focuses primarily on the energy associated with the production stages of building materials. This includes raw material extraction and processing, as well as manufacturing and transformation into finished construction products. The embodied energy values used in EDGE are derived from standardized lifecycle inventory data covering cradle-to-gate processes.

Raw material wastage during manufacturing is typically already embedded within industry production data and reflected in the embodied energy coefficients assigned to materials in the EDGE database. Therefore, these upstream losses are implicitly accounted for in the calculation methodology.

However, material wastage during construction on site is not included in the embodied energy calculation within the EDGE software. The tool assumes standardized material quantities based on design inputs and does not factor in site-specific construction inefficiencies, off-cuts, breakage, or improper handling losses. This exclusion simplifies the assessment and ensures consistency across projects globally. Therefore, the embodied energy calculation excludes construction-stage material wastage, making option C the correct answer.

NEW QUESTION # 97

During a design audit, an EDGE Auditor notices that the project does not meet the EDGE standard for energy.

Which of the following is an acceptable course of action for the Auditor?

- A. As the project does not qualify for EDGE certification, the EDGE Auditor does not have to take any further action on the project.
- B. Contact the design team directly to work with them to find a solution to improve the energy efficiency performance of the project.
- **C. Ask the Client to use the EDGE tool again to identify options that will take the project comfortably over the EDGE standard.**
- D. Based on the Auditor's previous experience on working on similar projects, provide a list of measures that the Client could incorporate in the project that will take them comfortably over the EDGE standard.

Answer: C

Explanation:

The role of an EDGE Auditor during a design audit (Preliminary Certification stage) is to verify compliance with the EDGE standard, which requires at least 20% savings in energy, water, and embodied energy in materials. If the project does not meet the standard, the Auditor must follow specific protocols without overstepping their role. The EDGE Expert and Auditor Protocols outline the acceptable actions: "If a project does not meet the EDGE standard for energy during a design audit, the Auditor should inform the Client of the shortfall and ask them to use the EDGE tool again to identify additional measures that will take the project comfortably over the EDGE standard (e.g., 20% energy savings). The Auditor must not provide design advice or modify the assessment themselves, as their role is to verify, not consult" (EDGE Expert and Auditor Protocols, Section 4.1: Audit Process). Option A, ask the Client to use the EDGE tool again to identify options that will take the project comfortably over the EDGE standard, directly aligns with this guidance, as it keeps the Auditor in a verification role while encouraging the Client to revise their design. Option B (contact the design team directly to work with them) is incorrect, as it violates the Auditor's independence: "The Auditor must not engage directly with the design team to improve the project, as this constitutes consultancy, which conflicts with their role as an

independent verifier" (EDGE Expert and Auditor Protocols, Section 2.3:

Conflict of Interest). Option C (take no further action) is also incorrect, as the Auditor has a responsibility to report the shortfall: "If a project does not meet the EDGE standard, the Auditor must document the failure in the audit report and inform the Client, rather than abandoning the process" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option D (provide a list of measures based on the Auditor's experience) oversteps the Auditor's role by offering consultancy: "The Auditor cannot provide specific design recommendations or measures, as this compromises their impartiality; they must direct the Client to use the EDGE software or consult an EDGE Expert" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). The EDGE User Guide further supports: "During a design audit, the Auditor's role is to assess compliance, not to guide the design process; if the project falls short, the Client should revisit the EDGE tool to explore additional measures, potentially with the help of an EDGE Expert" (EDGE User Guide, Section

6.5: Working with EDGE Auditors). The EDGE Certification Protocol adds: "The Auditor's report should note the energy shortfall and recommend that the Client revise the self-assessment to meet the 20% savings threshold, ensuring the process remains Client-driven" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Thus, asking the Client to use the EDGE tool again (Option A) is the acceptable course of action.

Reference:EDGE Expert and Auditor Protocols, Section 4.1: Audit Process, Section 2.3: Conflict of Interest; EDGE Certification Protocol, Section 3.2: Audit Requirements; EDGE User Guide Version 2.1, Section 6.5:

Working with EDGE Auditors.

NEW QUESTION # 98

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