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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q39-Q44):

NEW QUESTION # 39

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. Manufacturer's data sheets for the HVAC system
- C. Purchase receipts showing the U-value specification of the cold storage envelope
- D. Drawing(s) showing the U-value specification of the cold storage envelope

Answer: D

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 # 40

As an EDGE Auditor, one requires a full set of documentation to support each green building measure selected in a project assessment. Providing this information is the responsibility of:

- A. The Facility Manager.
- B. The Client.
- C. The project design team
- D. The Building Inspector.

Answer: B

Explanation:

The roles and responsibilities in the EDGE certification process are clearly defined to ensure a streamlined audit process. The EDGE Certification Protocol explicitly assigns the responsibility for providing documentation to support green building measures: "The EDGE Client is responsible for providing a full set of documentation to support each green building measure selected in the project assessment. This includes drawings, specifications, manufacturer's data sheets, and any other evidence required by the Auditor to verify compliance with the EDGE standard during both the design and post-construction stages" (EDGE Certification Protocol, Section 3.1: Certification Process). Option A, the Client, directly aligns with this requirement, as the Client (typically the project owner or developer) is the primary party submitting the project for certification and must provide all necessary evidence. Option B (the Facility Manager) is incorrect because the Facility Manager's role is operational, not related to certification documentation: "Facility Managers may assist with operational data for EDGE Zero Carbon certification but are not responsible for providing design or construction documentation" (EDGE Certification Protocol, Section 2.3: Certification Levels). Option C (the Building Inspector) is also incorrect, as this role is external to the EDGE process and not involved in certification: "Building Inspectors ensure compliance with local codes, not EDGE requirements" (EDGE User Guide, Glossary). Option D (the project design team) may prepare documentation, but the responsibility lies with the Client to submit it: "While the design team often prepares technical documents, it is the Client's responsibility to compile and provide them to the Auditor as part of the certification process" (EDGE Expert and Auditor Protocols, Section 2.1: Roles of EDGE Client). The EDGE User Guide further reinforces this by stating: "The Client must ensure all supporting documentation is complete and accessible to the Auditor to avoid delays in the certification process" (EDGE User Guide, Section 6.2: Documentation Requirements). Therefore, the Client (Option A) is responsible for providing the full set of documentation for the audit.

Reference: EDGE Certification Protocol, Section 3.1: Certification Process, Section 2.3: Certification Levels; EDGE Expert and Auditor Protocols, Section 2.1: Roles of EDGE Client; EDGE User Guide Version 2.1, Section 6.2: Documentation Requirements, Glossary.

NEW QUESTION # 41

A building achieved EDGE certification three years ago and obtained 30% energy savings. Solar panels have been added, which increased the energy savings to 60%. If carbon offsets are purchased for the remainder of the energy use, when should an EDGE Zero Carbon certification application be filed?

- A. As soon as one year of operational data can be provided

- B. No wait time required as the project is already EDGE certified
- **C. After achieving EDGE Advanced certification and gathering one year of operational data**
- D. At the same time as the EDGE Advanced certification and only after gathering two years of operational data

Answer: C

Explanation:

EDGE Zero Carbon certification requires specific prerequisites and operational data to verify performance.

The EDGE Certification Protocol details the requirements: "To apply for EDGE Zero Carbon certification, a project must first achieve EDGE Advanced certification, which requires at least 40% energy savings.

Additionally, EDGE Zero Carbon certification mandates at least one year of operational data at 75% occupancy to confirm energy performance, after which carbon offsets can be purchased for the remaining energy use to achieve zero carbon status" (EDGE Certification Protocol, Section 2.3: Certification Levels). In this scenario, the building's energy savings have increased to 60% with solar panels, qualifying it for EDGE Advanced (40% minimum). The next step is to gather one year of operational data before applying for EDGE Zero Carbon, making Option C (after achieving EDGE Advanced certification and gathering one year of operational data) correct. Option A (as soon as one year of operational data) skips the EDGE Advanced requirement: "EDGE Advanced is a prerequisite for EDGE Zero Carbon" (EDGE Certification Protocol, Section 2.3: Certification Levels). Option B (no wait time) is incorrect, as operational data is mandatory:

"Operational data is required to verify performance for Zero Carbon certification" (EDGE User Guide, Section 6.3: Advanced Certifications). Option D (at the same time as EDGE Advanced and after two years) is wrong, as only one year of data is needed: "One year of operational data at 75% occupancy is sufficient for EDGE Zero Carbon" (EDGE Certification Protocol, Section 2.3: Certification Levels). Thus, Option C is the correct timeline.

Reference: EDGE Certification Protocol, Section 2.3: Certification Levels; EDGE User Guide Version 2.1, Section 6.3: Advanced Certifications.

NEW QUESTION # 42

Which of the following is NOT a characteristic of the EDGE standard?

- A. Fast tool with ideal measures for the best return on investment
- B. Smart, as capital costs and payback period for buildings are displayed
- **C. Holistic approach that takes into account wider sustainability issues**
- D. Simple, as beneath the intuitive interface is a powerful engine that understands local climate and how buildings will be used

Answer: C

Explanation:

The EDGE standard is designed to be a practical, focused tool for green building certification, emphasizing specific resource efficiency metrics. The EDGE User Guide describes its characteristics: "EDGE is a simple, fast, and smart tool for green building certification. It provides an intuitive interface with a powerful engine that accounts for local climate and building use (simple), identifies measures with the best return on investment (fast), and displays capital costs and payback periods (smart)" (EDGE User Guide, Section 1.1: Introduction to EDGE). Options A, C, and D align with these descriptions. However, Option B (holistic approach that takes into account wider sustainability issues) is not a characteristic of EDGE, as the standard focuses narrowly on energy, water, and embodied energy in materials, not broader sustainability issues like biodiversity or social equity. This is clarified in the EDGE Certification Protocol: "EDGE is not a holistic sustainability standard; it specifically targets resource efficiency in energy, water, and materials, excluding wider sustainability metrics such as indoor air quality or ecological impact" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard). Thus, Option B is not a characteristic of the EDGE standard.

Reference: EDGE User Guide Version 2.1, Section 1.1: Introduction to EDGE; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard.

NEW QUESTION # 43

Which building typology should benefit the most from having a wastewater treatment and recycling system?

- A. School
- **B. Hotel**
- C. Homes
- D. Office

Answer: B

Explanation:

Wastewater treatment and recycling systems are evaluated in EDGE for their potential to reduce water consumption, a key aspect of green building design. The EDGE User Guide highlights the varying water usage patterns across building typologies: "Hotels typically have high water consumption due to guest rooms, laundry, and amenities like pools, making them ideal candidates for wastewater treatment and recycling systems, which can significantly reduce potable water demand by reusing treated water for non-potable uses such as irrigation and flushing" (EDGE User Guide, Section 5.2: Water Efficiency Measures). In contrast, homes (Option A) and offices (Option D) generally have lower per-capita water use, and schools (Option C) have intermittent occupancy, reducing the overall impact of such systems. The EDGE Methodology Report further supports this, noting, "For hotels, greywater and blackwater recycling can achieve up to 40% water savings due to high occupancy and consistent demand, compared to 20-25% in homes or offices" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Thus, hotels (Option B) benefit the most from wastewater treatment and recycling systems due to their high water usage and potential for significant savings.

Reference: EDGE User Guide Version 2.1, Section 5.2: Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations.

NEW QUESTION # 44

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