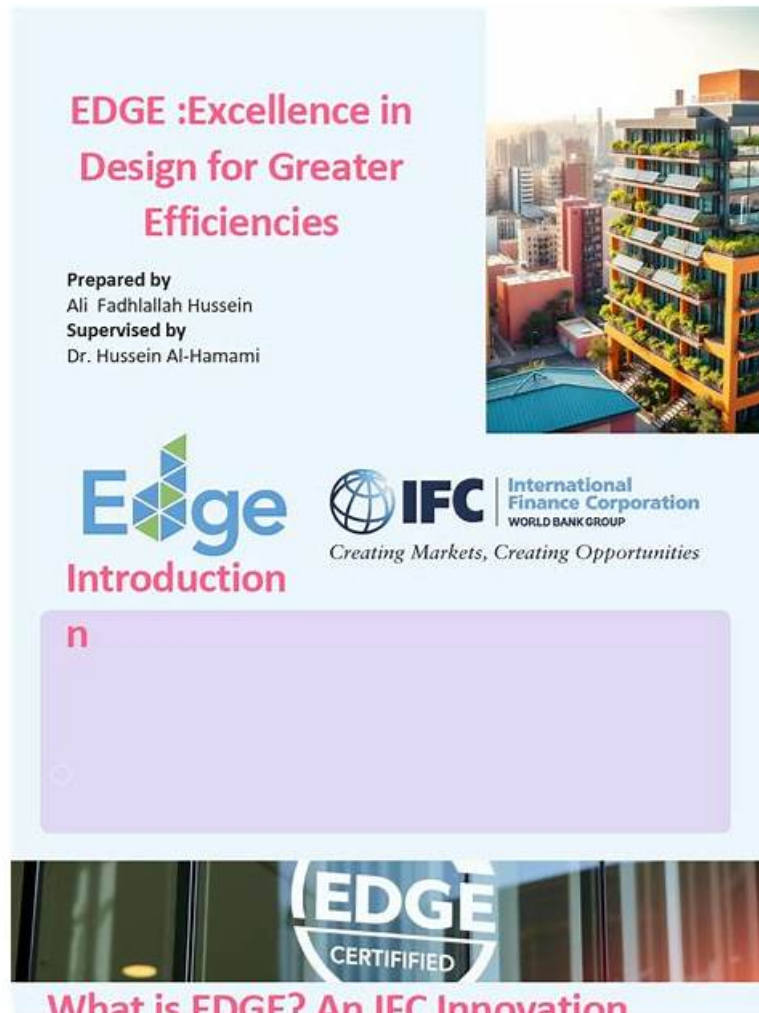


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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70

What are the benefits of using a pool cover that are recognized in EDGE?

- **A. Reduce both water and energy demand**
- B. Reduce chemical consumption and that of cleaning products
- C. Require less maintenance and work from employees
- D. Increase solar control and comfort

Answer: A

Explanation:

Pool covers are a water and energy efficiency measure in EDGE, particularly relevant for hotels with swimming pools. The EDGE User Guide outlines their benefits: "Pool covers reduce water demand by minimizing evaporation and energy demand by reducing the need for heating, as they retain heat in the pool.

In EDGE, the use of pool covers is recognized for its dual impact on reducing both water and energy consumption" (EDGE User Guide, Section 5.3: Additional Water Efficiency Measures). Option B, reduce both water and energy demand, directly aligns with this description. Option A (increase solar control and comfort) is incorrect, as pool covers are not recognized in EDGE for solar control or occupant comfort but for resource savings. Option C (require less maintenance and work from employees) and Option D (reduce chemical consumption and that of cleaning products) are potential secondary benefits but are not quantified or recognized in EDGE calculations, as confirmed by: "EDGE focuses on measurable water and energy savings from pool covers, not on maintenance or chemical use reductions" (EDGE Methodology Report Version 2.0, Section 4.3: Water Efficiency Calculations). Thus, Option B is the correct answer.

Reference: EDGE User Guide Version 2.1, Section 5.3: Additional Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 4.3: Water Efficiency Calculations.

NEW QUESTION # 71

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

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

Answer: C

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

NEW QUESTION # 72

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

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

Answer: B

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 # 73

For which of the following is EDGE Advanced certification available?

- A. Infrastructure constructions
- **B. New constructions**
- C. Parks and landscape projects
- D. Green lease agreements

Answer: B

Explanation:

The EDGE Standard defines specific project types eligible for certification levels, including EDGE Advanced, which requires at least 40% energy savings. The EDGE Certification Protocol specifies: "EDGE Advanced certification is available for new constructions that achieve a minimum of 40% energy savings compared to the base case, applicable to building typologies such as homes, hotels, offices, hospitals, retail, and schools" (EDGE Certification Protocol, Section 2.3: Certification Levels). Option A, new constructions, aligns with this scope, as EDGE focuses on new buildings across supported typologies. Option B, green lease agreements, is not a building type and is outside EDGE's certification framework. Option C, infrastructure constructions, and Option D, parks and landscape projects, are also not covered under EDGE typologies, as confirmed by the EDGE User Guide: "EDGE certification applies to new buildings and major renovations of specific typologies, excluding infrastructure or landscape-only projects" (EDGE User Guide, Section 1.2:

Scope of EDGE Certification). Thus, only new constructions qualify for EDGE Advanced certification.

Reference:EDGE Certification Protocol, Section 2.3: Certification Levels; EDGE User Guide Version 2.1, Section 1.2: Scope of

NEW QUESTION # 74

Which type of evidence is required at the post-construction stage for the efficiency measure window glazing?

- A. Manufacturer's data sheets showing the make and model, U-value, and SHGC of the installed glass
- B. Window schedule for the building showing the major window glass types if more than one type of glass is present
- C. Bill of quantities with the specifications for the window glass highlighted
- D. Design building elevations marking the window glass specifications

Answer: A

Explanation:

The post-construction stage in EDGE certification requires evidence to confirm that the efficiency measures claimed in the design stage have been implemented as specified. For window glazing, which affects energy efficiency through its U-value (thermal transmittance) and SHGC (Solar Heat Gain Coefficient), the EDGE Certification Protocol provides clear requirements: "At the post-construction stage, the Client must provide manufacturer's data sheets for the window glazing measure, showing the make and model, U-value, and SHGC of the installed glass, to confirm that the glazing matches the specifications claimed in the self-assessment and meets the energy efficiency requirements" (EDGE Certification Protocol, Section 3.4: Post-Construction Requirements). Option C, manufacturer's data sheets showing the make and model, U-value, and SHGC of the installed glass, directly matches this requirement, as it provides the specific technical data needed to verify compliance. Option A (design building elevations marking the window glass specifications) is relevant at the design stage, not post-construction: "Design elevations are required at the preliminary stage to show intended glazing specifications, not after construction" (EDGE Certification Protocol, Section 3.2:

Audit Requirements). Option B (bill of quantities with specifications highlighted) is insufficient on its own, as it may not provide detailed technical data: "Bills of quantities may support purchase verification, but manufacturer's data sheets are required for technical specifications like U-value and SHGC" (EDGE Certification Protocol, Section 3.4: Post-Construction Requirements). Option D (window schedule showing major glass types) is helpful but not sufficient, as it lacks the detailed technical data: "Window schedules may indicate glass types, but they do not replace the need for manufacturer's data sheets with U-value and SHGC at post-construction" (EDGE User Guide, Section 6.2: Documentation Requirements). The EDGE User Guide further clarifies: "For glazing measures, post-construction evidence must confirm the installed product's performance through manufacturer's data sheets, ensuring alignment with the design-stage claims" (EDGE User Guide, Section 4.1: Insulation Measures). Thus, manufacturer's data sheets (Option C) are required at the post-construction stage.

Reference:EDGE Certification Protocol, Section 3.4: Post-Construction Requirements, Section 3.2: Audit Requirements; EDGE User Guide Version 2.1, Section 6.2: Documentation Requirements, Section 4.1: Insulation Measures.

NEW QUESTION # 75

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