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**EDGE :Excellence in Design for Greater Efficiencies**

Prepared by  
Ali Fadhallah Hussein  
Supervised by  
Dr. Hussein Al-Hamami

**EDGE**  
Introduction

**IFC** International Finance Corporation  
WORLD BANK GROUP  
Creating Markets, Creating Opportunities

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**EDGE**  
CERTIFIED

**What is EDGE? An IFC Innovation**

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## EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q45-Q50):

### NEW QUESTION # 45

Ceiling fans are an efficient way to increase air movement and therefore thermal comfort. Which of the following forms part of the evidence to demonstrate compliance at the design stage?

- A. Photographs of the installed ceiling fans
- B. Computational Fluid Dynamics (CFD) assessment of all habitable spaces
- C. Manufacturer's data sheet of the ceiling fans
- D. Purchase receipts of the ceiling fans

**Answer: C**

Explanation:

At the design stage (Preliminary Certification), EDGE requires specific documentation to verify that proposed measures, such as ceiling fans, will be implemented as claimed. The EDGE Certification Protocol specifies:

"For measures like ceiling fans at the design stage, the Client must provide evidence such as manufacturer's data sheets that detail the make, model, and specifications (e.g., power rating, air movement capacity) to confirm the fans meet the efficiency criteria for improving thermal comfort" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option C, manufacturer's data sheet of the ceiling fans, aligns with this requirement, as it provides the necessary specifications for verification. Option A (photographs of installed ceiling fans) is relevant at the post-construction stage, not design: "Photographs are required at the post-construction stage to confirm installation, not at the design stage" (EDGE Certification Protocol, Section 3.4:

Post-Construction Requirements). Option B (CFD assessment) is not required, as EDGE uses simplified calculations: "EDGE does not require CFD assessments for air movement; fan specifications suffice for design-stage verification" (EDGE Methodology Report Version 2.0, Section 5.5: Thermal Comfort Measures). Option D (purchase receipts) is also a post-construction requirement:

"Purchase receipts verify installation, not design intent" (EDGE Certification Protocol, Section 3.4: Post-Construction Requirements). Thus, the manufacturer's data sheet (Option C) is the correct evidence at the design stage.

Reference:EDGE Certification Protocol, Section 3.2: Audit Requirements, Section 3.4: Post-Construction Requirements; EDGE Methodology Report Version 2.0, Section 5.5: Thermal Comfort Measures.

### NEW QUESTION # 46

Which of the following is an EDGE measure to reduce the embodied energy in materials?

- A. Fly ash concrete
- B. Occupancy sensors
- C. Low-flow shower heads
- D. External shading

**Answer: A**

Explanation:

Embodied energy in materials is one of the three core pillars of the EDGE standard, focusing on reducing the environmental impact of construction materials. The EDGE User Guide lists measures that specifically target embodied energy: "To reduce embodied energy in materials, EDGE includes measures such as the use of fly ash concrete, which substitutes a portion of cement with fly ash, a byproduct of coal combustion, thereby lowering the embodied energy and carbon footprint of concrete production" (EDGE User Guide, Section 7.2:

Materials Efficiency Measures). Option B, fly ash concrete, directly aligns with this measure, as it reduces the need for high-energy cement production. Option A (external shading) impacts energy by reducing cooling loads but does not directly address embodied energy: "External shading reduces operational energy use but does not contribute to embodied energy savings unless the shading materials themselves are low-impact, which is not specified in EDGE" (EDGE User Guide, Section 3.5: Passive Design Strategies). Option C (occupancy sensors) is an energy efficiency measure for lighting, not materials: "Occupancy sensors reduce lighting energy use but have no direct impact on embodied energy in materials" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). Option D (low-flow shower heads) targets water efficiency, not materials:

"Low-flow shower heads reduce water consumption, but their embodied energy impact is minimal and not a focus of EDGE materials measures" (EDGE User Guide, Section 5.2: Water Efficiency Measures). The EDGE Methodology Report further elaborates: "Fly ash concrete can reduce embodied energy by up to 20% compared to traditional concrete, making it a key measure in EDGE for materials efficiency, especially in high-volume applications like hospitals or hotels" (EDGE Methodology Report Version 2.0, Section 6.1:

Embodied Energy in Materials). Other materials measures in EDGE, such as using recycled steel or bamboo, are not listed among the options, making fly ash concrete (Option B) the correct choice for reducing embodied energy.

Reference:EDGE User Guide Version 2.1, Section 7.2: Materials Efficiency Measures, Section 3.5: Passive Design Strategies, Section 4.4: Lighting Efficiency Measures, Section 5.2: Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials.

#### NEW QUESTION # 47

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

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

**Answer: C**

Explanation:

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.

#### NEW QUESTION # 48

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

- A. Purchase receipts showing the U-value specification of the cold storage envelope
- B. Manufacturer's data sheets for the HVAC system
- 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 # 49

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

**Answer: A**

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 # 50

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