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

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**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 (Q14-Q19):

### NEW QUESTION # 14

Which of the following describes a more efficient lamp?

- A. Lower watts/m<sup>2</sup>
- B. Lower wattage
- C. More lumens/watt
- D. Longer life

**Answer: C**

Explanation:

Lamp efficiency in EDGE is a key factor in reducing energy consumption for lighting, a critical green building design strategy. The EDGE User Guide defines lamp efficiency: "In EDGE, a more efficient lamp is one that provides higher lumens per watt, meaning it produces more light output (lumens) for the same electrical input (watts). This metric, known as luminous efficacy, is used to evaluate lighting efficiency measures like EEM22 - Efficient Lighting for Internal Areas" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). Option A, more lumens/watt, directly aligns with this definition, as it indicates greater efficiency in converting electricity to light. Option B (lower watts/m<sup>2</sup>) refers to lighting power density, which is a design metric, not a lamp characteristic: "Watts/m<sup>2</sup> is a measure of lighting power density for a space, not the efficiency of an individual lamp" (EDGE Methodology Report Version 2.0, Section 5.4: Lighting Calculations). Option C (longer life) relates to durability, not efficiency: "Lamp life affects maintenance costs but is not a direct measure of energy efficiency in EDGE" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). Option D (lower wattage) alone does not indicate efficiency, as a lamp with lower wattage but poor light output would be less efficient: "Lower wattage must be paired with adequate lumens to improve efficiency" (EDGE Methodology Report Version 2.0, Section 5.4: Lighting Calculations). Thus, more lumens/watt (Option A) describes a more efficient lamp.

Reference:EDGE User Guide Version 2.1, Section 4.4: Lighting Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.4: Lighting Calculations.

### NEW QUESTION # 15

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

**Answer: A**

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

### NEW QUESTION # 16

What or who determines the baseline assumptions in EDGE?

- A. EDGE Auditors
- B. EDGE software users
- C. Market survey of best construction practices
- **D. Market survey of typical construction practices**

**Answer: D**

Explanation:

The baseline assumptions in EDGE software, known as the Base Case, are critical for calculating resource savings and are determined using standardized data. The EDGE Methodology Report explains: "Baseline assumptions in EDGE, referred to as the Base Case, are determined by market surveys of typical construction practices in the project's country, reflecting common materials, systems, and design practices for the selected typology and location" (EDGE Methodology Report Version 2.0, Section 3.1: Base Case Determination).

Option C, market survey of typical construction practices, aligns with this methodology. Option A (EDGE software users) is incorrect, as users do not set the baseline; they input project-specific data. Option B (EDGE Auditors) is also incorrect, as auditors verify compliance, not establish baselines. Option D (market survey of best construction practices) is wrong because EDGE uses typical practices, not best practices, to create a realistic benchmark, as clarified in the EDGE User Guide: "The Base Case reflects typical local practices, not best practices, to ensure a fair comparison for resource savings" (EDGE User Guide, Section 2.3: Using the EDGE App).

Reference:EDGE Methodology Report Version 2.0, Section 3.1: Base Case Determination; EDGE User Guide Version 2.1, Section 2.3: Using the EDGE App.

### NEW QUESTION # 17

For which of the following is EDGE Advanced certification available?

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

**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 EDGE Certification.

### NEW QUESTION # 18

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. Ask the Client to use the EDGE tool again to identify options that will take the project comfortably over the EDGE standard.**

- B. Contact the design team directly to work with them to find a solution to improve the energy efficiency performance of the project.
- C. 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.
- D. As the project does not qualify for EDGE certification, the EDGE Auditor does not have to take any further action on the project.

**Answer: A**

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 # 19

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