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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 (Q101-Q106):

### NEW QUESTION # 101

In the EDGE certification system, who is responsible for the entire project including providing project documentation, access to the site, and the payment of audit and certification fees?

- A. Project Owner
- B. EDGE Certification Provider
- C. EDGE Expert
- D. EDGE Auditor

**Answer: A**

Explanation:

The EDGE certification process assigns clear responsibilities to various stakeholders to ensure a smooth and accountable process. The EDGE Certification Protocol defines the role of the ProjectOwner (also referred to as the EDGE Client): "The Project Owner, as the EDGE Client, is responsible for the entire project within the EDGE certification system. This includes providing all necessary project documentation (e.g., drawings, specifications, and self-assessments), ensuring access to the site for audits, and paying the audit and certification fees as required by the Certification Provider" (EDGE Certification Protocol, Section 2.1: Roles and Responsibilities). Option C, Project Owner, directly aligns with this comprehensive responsibility. Option A (EDGE Expert) is incorrect, as the Expert's role is advisory: "The EDGE Expert provides consultancy services, assisting with documentation and measure selection, but the ultimate responsibility for submission and payment lies with the Project Owner" (EDGE Expert and Auditor Protocols, Section 2.1: Roles of EDGE Expert). Option B (EDGE Auditor) is also incorrect, as the Auditor's role is to verify compliance, not manage the project: "The EDGE Auditor conducts independent audits and is not responsible for project management, documentation provision, or fee payments" (EDGE Expert and Auditor Protocols, Section 2.2: Roles of EDGE Auditor). Option D (EDGE Certification Provider) is responsible for issuing certificates and overseeing the process, not managing the project: "The EDGE Certification Provider, such as GBCI, reviews the Auditor's recommendation and issues certificates, but does not manage the project or pay fees" (EDGE Certification Protocol, Section 3.3: Certification Decision). The EDGE User Guide further reinforces this:

"The Project Owner must coordinate all aspects of the certification process, ensuring documentation is complete, site access is granted for post-construction audits, and all fees are paid to the Certification Provider in a timely manner" (EDGE User Guide, Section 6.1: Project Preparation). This holistic responsibility makes the Project Owner (Option C) the correct answer.

Reference:EDGE Certification Protocol, Section 2.1: Roles and Responsibilities, Section 3.3: Certification Decision; EDGE Expert and Auditor Protocols, Section 2.1: Roles of EDGE Expert, Section 2.2: Roles of EDGE Auditor; EDGE User Guide Version 2.1, Section 6.1: Project Preparation.

### NEW QUESTION # 102

Air-cooled chillers have the following components:

- A. Chilled water pump, condenser, thermal expansion valve, evaporator.
- B. Compressor, water-cooled condenser, thermal expansion valve, evaporator.
- C. Compressor, condenser, thermal expansion valve, evaporator.
- D. Cooling tower, condenser, condenser pump, evaporator.

**Answer: C**

Explanation:

Air-cooled chillers are a type of HVAC system commonly evaluated in EDGE for their energy efficiency in green building design. The EDGE Methodology Report Version 2.0 outlines the components of air-cooled chillers in the context of energy efficiency measures. According to the EDGE User Guide (Version 2.1), air-cooled chillers differ from water-cooled chillers by not requiring a cooling tower or associated water-based components like a condenser pump. The guide states: "Air-cooled chillers consist of a compressor, air-cooled condenser, thermal expansion valve, and evaporator, which work together to provide cooling by rejecting heat directly to the ambient air" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option A includes a cooling tower and condenser pump, which are specific to water-cooled chillers. Option D mentions a water-cooled condenser, which is incorrect

for air-cooled systems. Option C includes a chilled water pump, which is not a core component of the chiller itself but part of the broader system. Option B accurately lists the compressor, condenser (air-cooled, implied), thermal expansion valve, and evaporator, aligning with the EDGE description of air-cooled chiller components. Reference:EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures; EDGE Methodology Report Version 2.0, HVAC Systems.

### NEW QUESTION # 103

An EDGE Auditor has been requested to provide auditing services to a development client. This particular client is well known as a hard negotiator and has offered the appointment on the basis of 50% payment for assessment and 50% upon successful EDGE certification of the building. What should the EDGE Auditor do?

- A. Refer the developer to another Auditor in the area who needs the work.
- B. Lodge a complaint against the developer with the local authorities.
- **C. Confirm a fixed fee independent of the final assessment result.**
- D. Accept these terms, knowing that the project will most likely achieve certification.

**Answer: C**

Explanation:

EDGE Auditors must adhere to strict ethical guidelines to maintain independence and avoid conflicts of interest, particularly regarding payment structures that could influence their impartiality. The EDGE Expert and Auditor Protocols address payment terms explicitly: "An EDGE Auditor must confirm a fixed fee for their services that is independent of the final assessment result. Payment structures that tie fees to the success of certification, such as contingent payments, are prohibited to ensure the Auditor's objectivity and to prevent any perception of bias in the audit process" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). The client's offer of 50% payment for assessment and 50% upon successful certification violates this principle, as it makes part of the fee contingent on the outcome. Option A, confirm a fixed fee independent of the final assessment result, aligns with this ethical requirement, ensuring the Auditor's impartiality. Option B (lodge a complaint with local authorities) is incorrect, as this is an overreaction and outside the Auditor's role: "Issues related to payment terms should be resolved directly with the Client, not escalated to local authorities, which are unrelated to EDGE certification" (EDGE Expert and Auditor Protocols, Section 4.1: Audit Process). Option C (refer the developer to another Auditor) avoids the issue but does not address the ethical concern: "Referring the Client to another Auditor does not resolve the ethical violation of contingent fees, which applies to all Auditors" (EDGE Expert and Auditor Protocols, Section 2.3:

Conflict of Interest). Option D (accept the terms) is unethical, as it compromises the Auditor's independence:

"Accepting payment terms tied to certification success, even if the project is likely to succeed, violates EDGE protocols and undermines the integrity of the certification process" (EDGE Certification Protocol, Section 3.1:

Certification Process). The EDGE User Guide further emphasizes: "Auditors must maintain strict independence, ensuring their compensation is not influenced by the certification outcome, to uphold the credibility of EDGE certification" (EDGE User Guide, Section 6.5: Working with EDGE Auditors). Thus, the Auditor should confirm a fixed fee (Option A).

Reference:EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest, Section 4.1: Audit Process; EDGE Certification Protocol, Section 3.1: Certification Process; EDGE User Guide Version 2.1, Section 6.5:

Working with EDGE Auditors.

### NEW QUESTION # 104

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

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

**Answer: D**

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 # 105

Variable speed drives in HVAC systems help:

- A. Reduce energy consumption.
- B. Increase the speed.
- C. Reduce the speed.
- D. Reduce water consumption.

**Answer: A**

Explanation:

Variable speed drives (VSDs) are a recognized energy efficiency measure in EDGE for optimizing HVAC system performance. The EDGE User Guide explains their role: "Variable speed drives in HVAC systems, such as those used in fans and pumps, adjust the motor speed to match the load demand, significantly reducing energy consumption compared to fixed-speed systems. This measure can achieve up to 30% energy savings in HVAC operations" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option C, reduce energy consumption, directly aligns with this description. Option A (reduce the speed) and Option B (increase the speed) are partially correct in that VSDs adjust speed, but the primary benefit in EDGE is energy savings, not speed adjustment itself. "The goal of VSDs in EDGE is energy reduction through speed modulation, not speed adjustment as an end" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Option D (reduce water consumption) is incorrect, as VSDs impact energy use, not water: "VSDs are an energy measure and do not directly affect water consumption in HVAC systems" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Thus, VSDs help reduce energy consumption (Option C).

Reference:EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics.

### NEW QUESTION # 106

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