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 EDGE Expert Training V3	
Event Title: EDGE Training to become eligible for the EDGE Expert Exam Date & Time: 26 th Aug'23 (9:30 am IST to 5:30 PM IST) EDGE Training Fees: 8200 INR (100 USD) Training Mode: Online (Registration Link)	 EDGE Faculty: Abdul Moeed Chaudhary Abdul.chaudhary@essentialindia.in +91-90290 85503 / +91-99671 05686
	
	

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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48

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. Design building elevations marking the window glass specifications
- C. Bill of quantities with the specifications for the window glass highlighted
- D. Window schedule for the building showing the major window glass types if more than one type of glass is present

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 # 49

Within the EDGE methodology, recycled water or rainwater harvested on site is deducted from the building's Improved Case water consumption and is reported as:

- A. Wastewater
- **B. Water savings**
- C. Water usage
- D. Potable water

Answer: B

Explanation:

The EDGE methodology quantifies the impact of water efficiency measures like rainwater harvesting and recycled water by comparing the Improved Case to the Base Case. The EDGE Methodology Report states:

"Recycled water or rainwater harvested on site reduces the building's potable water demand in the Improved Case. This reduction is deducted from the Improved Case water consumption and reported as water savings in the EDGE software, reflecting the volume of potable water no longer required due to the measure" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Option B, water savings, accurately reflects this reporting method, as the software highlights the reduction in potable water use as a saving. Option A (water usage) is incorrect, as this term refers to the total consumption, not the reduction:

"Water usage in EDGE refers to the total volume consumed, not the savings achieved" (EDGE User Guide, Glossary). Option C (wastewater) is unrelated, as it refers to water output, not savings: "Wastewater is water discharged from the building, not a savings metric" (EDGE User Guide, Glossary). Option D (potable water) is also incorrect, as the measure reduces potable water use, but the reported metric is the saving, not the potable water itself: "Potable water demand is an input, while savings are the output" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Thus, the correct reporting is water savings (Option B).

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

NEW QUESTION # 50

Is it possible to be both the EDGE Expert and Auditor on a project?

- A. Yes, they can be both an EDGE Auditor and EDGE Expert in all cases.
- B. No, even if EDGE Certifier agrees to special terms to have no conflict of interest.
- C. Yes, but only in the case that there are no other EDGE Auditors available for the project.
- **D. No, an EDGE Expert cannot be the EDGE Auditor on the same project.**

Answer: D

Explanation:

The EDGE framework strictly enforces separation of roles to maintain integrity and avoid conflicts of interest during the certification process. The EDGE Expert and Auditor Protocols explicitly address this issue: "An individual cannot serve as both the EDGE Expert and EDGE Auditor on the same project. This separation ensures independence in the audit process, as the Expert's role as a consultant advising the project team could bias the Auditor's objective assessment of the project's compliance with EDGE standards" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option A, no, an EDGE Expert cannot be the EDGE Auditor on the same project, directly reflects this rule. Option B (no, even if the Certifier agrees to special terms) adds an unnecessary condition, as the protocols do not allow exceptions: "No exceptions are permitted for an individual to serve in both roles on the same project, regardless of agreements or special terms" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option C (yes, in all cases) is incorrect, as it contradicts the conflict-of-interest rules: "Allowing dual roles in all cases would undermine the impartiality required for certification" (EDGE Certification Protocol, Section 3.1: Certification Process). Option D (yes, if no other Auditors are available) is also incorrect, as availability does not override the conflict-of-interest prohibition: "Even if no other Auditors are available, the roles must remain separate; the Client must find a different Auditor or delay the audit" (EDGE Expert and Auditor Protocols, Section 4.1: Audit Process). The EDGE User Guide reinforces this principle: "The separation of Expert and Auditor roles ensures a fair and unbiased certification process, protecting the credibility of EDGE certification" (EDGE User Guide, Section

6.4: Working with EDGE Experts). Thus, it is not possible to be both (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 6.4: Working with EDGE Experts.

NEW QUESTION # 51

Increasing the glazing area of an office building will NOT impact which of the following?

- A. Heating demand
- B. Lighting energy
- C. Cooling demand
- **D. Hot water demand**

Answer: D

Explanation:

Increasing the glazing area in an office building affects various aspects of energy consumption due to changes in heat gain, heat loss, and natural light availability, but it does not influence all buildingsystems. The EDGE User Guide explains the impacts of glazing: "Increasing the glazing area (window-to-wall ratio, WWR) in an office building typically increases cooling demand due to higher solar heat gain, increases heating demand in colder climates due to greater heat loss through windows, and reduces lighting energy by allowing more natural daylight, assuming proper daylighting design" (EDGE User Guide, Section 3.5: Passive Design Strategies). Option A (cooling demand) is affected, as more glazing increases solar heat gain: "Higher WWR leads to greater cooling loads in hot climates due to increased solar radiation entering the building" (EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods). Option B (heating demand) is also impacted, particularly in cooler climates: "Larger glazing areas increase heat loss in cold climates, raising heating demand due to the lower thermal resistance of windows compared to walls" (EDGE User Guide, Section 4.1: Insulation Measures). Option C (lighting energy) is affected, as more glazing can reduce the need for artificial lighting: "Increased glazing can lower lighting energy by enhancing daylight penetration, provided glare is controlled" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). However, Option D (hot water demand) is not impacted by glazing area, as hot water use is tied to occupant activities (e.g., showers, cleaning) rather than building envelope design: "Hot water demand in EDGE is determined by occupant use patterns, such as the number of showers or laundry cycles, and is not influenced by glazing area or WWR" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). The EDGE User Guide further confirms: "Glazing area impacts energy-related metrics like cooling, heating, and lighting, but has no direct effect on hot water demand, which is calculated separately based on usage assumptions" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Therefore, increasing glazing area does not impact hot water demand (Option D).

Reference: EDGE User Guide Version 2.1, Section 3.5: Passive Design Strategies, Section 4.1: Insulation Measures, Section 4.4: Lighting Efficiency Measures, Section 5.2: Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods, Section 4.2: Water Savings Calculations.

NEW QUESTION # 52

Variable speed drives in HVAC systems help:

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

Answer: C

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 # 53

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