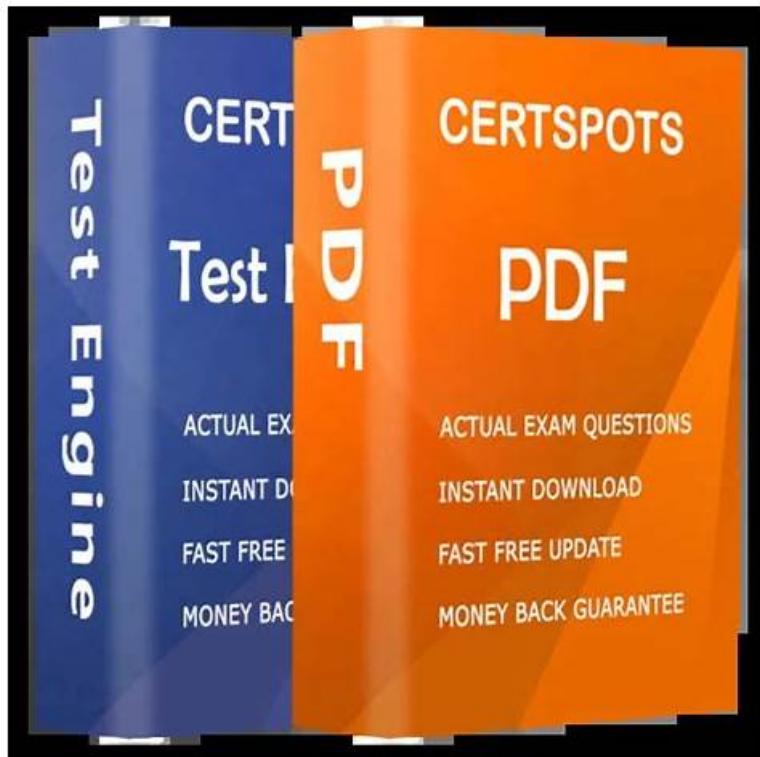


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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q22-Q27):

NEW QUESTION # 22

Which of the following measures provides the most attractive solution in the EDGE software for a hospital?

- A. External shading with 7% saving and 8 years payback
- B. Solar hot water system with a saving of 15% and payback of 6 years
- C. Water-cooled chillers with 20% energy saving and 10 years payback
- D. Insulation of external walls with 3% saving and 9 years payback

Answer: B

Explanation:

In the EDGE software, the "most attractive solution" for a project, such as a hospital, is determined by balancing resource savings (energy, water, or materials) with financial payback periods, as these metrics are key outputs in the EDGE App Results Bar. The EDGE User Guide explains how to evaluate measures: "The EDGE software prioritizes measures that offer the highest resource savings with the shortest payback periods, making them the most attractive solutions for project teams. For hospitals, where energy and water demands are high due to continuous operation, measures with significant savings and faster payback are typically preferred" (EDGE User Guide, Section 2.4: Interpreting EDGE Results). Let's evaluate the options: Option A (external shading) offers 7% savings (likely energy, as shading reduces cooling loads) with an 8-year payback. Option B (insulation of external walls) provides 3% savings (also energy) with a 9-year payback.

Option C (solar hot water system) delivers 15% savings (energy, as it reduces the need for electric or gas water heating) with a 6-year payback. Option D (water-cooled chillers) achieves 20% energy savings but with a 10-year payback. The EDGE Methodology Report further clarifies: "For hospitals, measures like solar hot water systems are often attractive because they address high hot water demands (e.g., for sterilization, showers), offering substantial energy savings with relatively short payback periods due to consistent usage" (EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures). Comparing the options, Option C has the second-highest savings (15%) and the shortest payback (6 years), making it more attractive than Option D (20% savings but 10 years payback), Option A (7% savings, 8 years), and Option B (3% savings, 9 years). The EDGE User Guide also notes: "A payback period of 6 years is generally considered attractive in EDGE, especially for measures with savings above 10%, as it aligns with typical investment horizons for building owners" (EDGE User Guide, Section 2.4: Interpreting EDGE Results). Additionally, for a hospital, hot water demand is significant, making solar hot water systems particularly effective: "Hospitals benefit greatly from solar hot water systems, achieving energy savings of 10-20% with payback periods often under 7 years due to high hot water usage" (EDGE Methodology Report Version 2.0, Section 4.2: Energy Savings Calculations). Thus, the solar hot water system (Option C) is the most attractive solution due to its balanced savings and shortest payback period.

Reference:EDGE User Guide Version 2.1, Section 2.4: Interpreting EDGE Results; EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures, Section 4.2: Energy Savings Calculations.

NEW QUESTION # 23

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 # 24

In order for a project to complete the design certification stage requirements, the EDGE Client must do which of the following?

- A. Access the EDGE software and begin and complete a full self-assessment of the building.
- B. Internally review the EDGE measures with their design team and third-party consultant.
- C. Review and sign an agreement with a local or global partner to provide EDGE certification services.
- D. **Provide the EDGE Auditor access to the self-assessment and all supporting documentation.**

Answer: D

Explanation:

The design certification stage (Preliminary Certification) in EDGE requires specific actions from the Client to ensure the project can be audited and certified. The EDGE Certification Protocol outlines the process: "To complete the design certification stage, the EDGE Client must provide the EDGE Auditor with access to the completed self-assessment in the EDGE software, along with all supporting documentation, such as drawings, specifications, and calculations, to verify the selected measures" (EDGE Certification Protocol, Section 3.1: Certification Process). Option C, provide the EDGE Auditor access to the self-assessment and all supporting documentation, matches this requirement. Option A (internally review the EDGE measures) is a preparatory step, not a certification requirement: "Internal reviews are recommended but not mandated for certification" (EDGE User Guide, Section 6.1: Project Preparation).

Option B (access the EDGE software and complete a self-assessment) is a prerequisite to the audit, not the final step for design certification: "The self-assessment must be completed before the audit, but certification requires submission to the Auditor" (EDGE Certification Protocol, Section 3.1: Certification Process). Option D (sign an agreement with a certification partner) is incorrect, as this is typically handled during project registration, not design certification: "Agreements with Certification Providers are signed prior to registration, not at the design stage" (EDGE Certification Protocol, Section 2.1: Registration). Thus, providing the Auditor access (Option C) is the required action.

Reference:EDGE Certification Protocol, Section 3.1: Certification Process, Section 2.1: Registration; EDGE User Guide Version 2.1, Section 6.1: Project Preparation.

NEW QUESTION # 25

During an EDGE audit for a project, the Auditor discovers that members of the design team have provided misleading information on certain green building measures to the Client. This incorrect information has unknowingly been used by the Client to support their application for EDGE certification. What should the EDGE Auditor do?

- A. Reject the information and adjust the EDGE assessment accordingly, returning the assessment to the Client.
- B. Contact the Client and warn them of the deception, pointing out the design team members at fault.
- C. **Contact the design team and recommend that they provide updated and correct information.**
- D. Call the offending design team member and negotiate a friendly solution.

Answer: C

Explanation:

EDGE Auditors are bound by ethical protocols to maintain professionalism and independence when encountering issues like misleading information. The EDGE Expert and Auditor Protocols outline the procedure: "If an EDGE Auditor discovers misleading or incorrect information during an audit, they must contact the design team to recommend that they provide updated and correct information to the Client. The Auditor should document the issue in the audit report but must not adjust the assessment themselves or take punitive actions, ensuring the process remains transparent and fair" (EDGE Expert and Auditor Protocols, Section 4.3: Handling Discrepancies). Option B, contacting the design team to recommend updated information, aligns with this protocol. Option A (negotiate a friendly solution) violates the Auditor's impartiality: "Auditors must avoid direct negotiations that could compromise their independence" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option C (warn the Client of deception)

oversteps the Auditor's role by assigning blame: "Auditors should not accuse parties of deception but focus on facilitating corrections" (EDGE Expert and Auditor Protocols, Section 4.3: Handling Discrepancies).

Option D (reject and adjust the assessment) is incorrect, as Auditors cannot modify assessments: "Auditors must assess the project as submitted and cannot reject or adjust measures on their own" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Thus, recommending corrections to the design team (Option B) is the appropriate action.

Reference:EDGE Expert and Auditor Protocols, Section 4.3: Handling Discrepancies, Section 2.3: Conflict of Interest; EDGE Certification Protocol, Section 3.2: Audit Requirements.

NEW QUESTION # 26

Which of the following can deliver the highest efficiency in fans and pumps?

- A. Single speed drive
- B. Two speed drive
- C. Constant speed drive
- D. Variable speed drive

Answer: D

Explanation:

Efficiency in fans and pumps is a critical aspect of green building design in EDGE, particularly for reducing energy consumption in HVAC systems. The EDGE User Guide provides detailed guidance on efficiency measures for mechanical systems: "Variable speed drives (VSDs) deliver the highest efficiency in fans and pumps by adjusting the motor speed to match the actual demand, significantly reducing energy consumption compared to fixed-speed systems. VSDs can achieve energy savings of up to 30-50% in HVAC applications by avoiding the constant operation at full speed typical of single or constant speed drives" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option D, variable speed drive, aligns with this description as the most efficient option. Option A (two speed drive) offers some efficiency by allowing two operating speeds, but it is less flexible than VSDs: "Two speed drives provide limited efficiency gains, as they cannot continuously adjust to varying loads, unlike variable speed drives" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Option B (single speed drive) and Option C (constant speed drive) are essentially the same in this context, operating at a fixed speed regardless of demand, leading to energy waste: "Single speed or constant speed drives run at a fixed rate, resulting in higher energy consumption compared to variable speed drives, which modulate speed based on need" (EDGE User Guide, Section 4.2:

Energy Efficiency Measures). The EDGE Methodology Report further elaborates: "Variable speed drives are the most efficient option for fans and pumps in EDGE, as they minimize energy use by matching output to demand, unlike two speed or constant speed drives, which operate inefficiently under partial loads" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). This makes variable speed drives (Option D) the clear choice for delivering the highest efficiency in fans and pumps.

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 # 27

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