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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q74-Q79):

NEW QUESTION # 74

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. Insulation of external walls with 3% saving and 9 years payback
- D. Water-cooled chillers with 20% energy saving and 10 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 # 75

Variable speed drives in HVAC systems help:

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

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 # 76

How many years of experience in related fields are required for applicants without a construction-related higher qualification to become an EDGE Expert?

- A. At least 2 years
- B. At least 5 years
- C. At least 3 years
- D. At least 1 year

Answer: C

Explanation:

The eligibility criteria for becoming an EDGE Expert are designed to ensure candidates have sufficient background to advise on green building projects. The EDGE Expert and Auditor Protocols specify the requirements for candidates without a construction-related higher qualification: "Applicants without a higher education qualification in a construction-related field (e.g., architecture, engineering) must have a higher education qualification in any field plus at least three years of experience in the construction industry as a skilled professional or tradesperson to qualify for EDGE Expert training and certification" (EDGE Expert and Auditor Protocols, Section 3.1: Eligibility Criteria). Option C, at least 3 years, directly matches this requirement. Option A (at least 1 year) and Option B (at least 2 years) are insufficient, as they fall below the minimum threshold: "Less than three years of experience does not meet the eligibility criteria for candidates without a construction-related degree, as this duration ensures adequate practical knowledge of building design and construction processes" (EDGE Expert and Auditor Protocols, Section 3.1: Eligibility Criteria).

Option D (at least 5 years) exceeds the minimum requirement, which is not necessary: "While additional experience is beneficial, the minimum requirement for EDGE Expert eligibility is three years for non- construction degree holders" (EDGE User Guide, Section 6.4: Working with EDGE Experts). The EDGE Certification Protocol also notes: "The three-year experience requirement for non- construction graduates ensures that EDGE Experts have sufficient industry exposure to provide meaningful consultancy, balancing accessibility with competence" (EDGE Certification Protocol, Section 1.3: Program Structure). Additionally, the EDGE User Guide clarifies: "Candidates with a construction-related degree are exempt from the experience requirement, but those without such a degree must demonstrate at least three years of relevant experience to qualify for the EDGE Expert exam" (EDGE User Guide, Section 6.4: Working with EDGE Experts). Therefore, at least 3 years of experience (Option C) is required for applicants without a construction- related higher qualification.

Reference:EDGE Expert and Auditor Protocols, Section 3.1: Eligibility Criteria; EDGE Certification Protocol, Section 1.3: Program Structure; EDGE User Guide Version 2.1, Section 6.4: Working with EDGE Experts.

NEW QUESTION # 77

Which of the following may NOT lead to a higher adoption of green building practices?

- A. Public awareness and capacity building
- B. Green building regulations
- C. Clear visibility of estimated savings and cost of green measures
- D. Lower electricity supply costs

Answer: D

Explanation:

Adoption of green building practices in EDGE is influenced by factors that incentivize or mandate resource efficiency. The EDGE User Guide discusses drivers for green building adoption: "Factors that lead to higher adoption of green building practices include green building regulations, which mandate compliance with efficiency standards; public awareness and capacity building, which educate stakeholders on the benefits of green design; and clear visibility of estimated savings and costs, which provide financial justification for green measures" (EDGE User Guide, Section 1.1: Introduction to EDGE). Option A (green building regulations) directly encourages adoption by enforcing standards: "Regulations requiring energy or water efficiency standards push developers to adopt green practices to meet legal requirements" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard). Option C (public awareness and capacity building) increases adoption by educating stakeholders: "Awareness campaigns and training programs increase demand for green buildings by informing developers, owners, and tenants of their benefits" (EDGE User Guide, Section 1.1: Introduction to EDGE). Option D (clear visibility of estimated savings and costs) incentivizes adoption by demonstrating financial benefits: "EDGE's display of savings and payback periods motivates adoption by showing the return on investment for green measures" (EDGE User Guide, Section 2.4).

Interpreting EDGE Results). However, Option B (lower electricity supply costs) may not lead to higher adoption, as it reduces the financial incentive to save energy: "Lower electricity supply costs decrease the cost savings from energy efficiency measures, potentially discouraging investment in green practices, as the payback period for measures like insulation or efficient lighting becomes longer" (EDGE Methodology Report Version 2.0, Section 4.4: Cost Savings Calculations). The EDGE User Guide further elaborates: "High utility costs often drive green building adoption by making energy and water savings more financially attractive, whereas lower costs can reduce the urgency to implement efficiency measures" (EDGE User Guide, Section 1.2: Scope of EDGE Certification). In this context, lower electricity supply costs (Option B) may not encourage green building practices, as the economic motivation for energy savings diminishes.

Reference:EDGE User Guide Version 2.1, Section 1.1: Introduction to EDGE, Section 1.2: Scope of EDGE Certification, Section 2.4: Interpreting EDGE Results; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard; EDGE Methodology Report Version 2.0, Section 4.4: Cost Savings Calculations.

NEW QUESTION # 78

To maintain their licensed status, what must EDGE Auditors do?

- A. Undertake at least one building project audit every three years.
- B. Attend refresher training for at least two hours every two years.
- **C. Undertake at least one building project audit every two years.**
- D. Attend refresher training for at least two hours every three years.

Answer: C

Explanation:

EDGE Auditors must meet specific requirements to maintain their licensed status, ensuring they remain active and competent in their role. The EDGE Expert and Auditor Protocols provide detailed guidance: "To maintain their licensed status, EDGE Auditors must undertake at least one building project audit every two years. This requirement ensures that Auditors remain actively engaged in the certification process and maintain their practical experience in verifying EDGE projects" (EDGE Expert and Auditor Protocols, Section 5.1:

Maintaining Auditor Status). Option A, undertake at least one building project audit every two years, directly aligns with this requirement. Option B (attend refresher training for at least two hours every two years) and Option C (attend refresher training for at least two hours every three years) are incorrect, as the protocols specify a different training requirement: "EDGE Auditors must attend refresher training as required by IFC, typically every three years, but the duration is not specified as a minimum of two hours; the focus is on completing the training, not the exact hours" (EDGE Expert and Auditor Protocols, Section 5.1: Maintaining Auditor Status). Option D (undertake at least one building project audit every three years) is also incorrect, as the required frequency is every two years, not three: "A three-year interval for audits does not meet the requirement of one audit every two years, which is necessary to ensure ongoing competence" (EDGE Expert and Auditor Protocols, Section 5.1: Maintaining Auditor Status). The EDGE User Guide supports this by stating: "Auditors maintain their status by conducting at least one audit every two years, ensuring they stay familiar with EDGE standards and procedures through active practice" (EDGE User Guide, Section 6.5:

Working with EDGE Auditors). Additionally, the protocols note: "Failure to conduct an audit within two years may result in a lapse of Auditor status, requiring recertification through additional training or re- examination" (EDGE Expert and Auditor Protocols, Section 5.2: Recertification Conditions). Thus, undertaking at least one audit every two years (Option A) is the correct requirement for maintaining EDGE Auditor status.

Reference:EDGE Expert and Auditor Protocols, Section 5.1: Maintaining Auditor Status, Section 5.2:

Recertification Conditions; EDGE User Guide Version 2.1, Section 6.5: Working with EDGE Auditors.

NEW QUESTION # 79

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