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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36

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

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

Answer: C

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 # 37

The EDGE Preliminary Certificate is issued by the EDGE:

- A. Expert.
- B. Operations and Management Team
- C. Auditor.
- **D. Certification Provider.**

Answer: D

Explanation:

The issuance of certificates in the EDGE certification process is a defined responsibility assigned to specific roles. The EDGE Certification Protocol states: "The EDGE Preliminary Certificate, awarded at the design stage, is issued by the EDGE Certification Provider after the Auditor submits a recommendation for certification based on the design audit. The Certification Provider reviews the Auditor's report and, if compliant, issues the certificate" (EDGE Certification Protocol, Section 3.3: Certification Decision). Option C, Certification Provider, aligns with this process, as entities like GBCI are responsible for issuing certificates. Option A (Auditor) is incorrect, as Auditors only recommend certification: "The Auditor's role is to provide a recommendation, not to issue the certificate" (EDGE Expert and Auditor Protocols, Section 2.2:

Roles of EDGE Auditor). Option B (Expert) is also incorrect, as Experts advise on design, not certification:

"EDGE Experts assist with project design and self-assessment, not certification issuance" (EDGE Expert and Auditor Protocols, Section 2.1: Roles of EDGE Expert). Option D (Operations and Management Team) is wrong, as this team supports the overall program, not individual certifications: "The EDGE Operations and Management Team oversees program development, not certificate issuance" (EDGE Certification Protocol, Section 1.3: Program Structure). Thus, the Preliminary Certificate is issued by the Certification Provider (Option C).

Reference:EDGE Certification Protocol, Section 3.3: Certification Decision, Section 1.3: Program Structure; EDGE Expert and Auditor Protocols, Section 2.1: Roles of EDGE Expert, Section 2.2: Roles of EDGE Auditor.

NEW QUESTION # 38

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

- A. Constant speed drive
- B. Two speed drive
- C. Single 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 # 39

For which of the following is EDGE Advanced certification available?

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

Answer: D

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 # 40

For a project in a hot and dry climate with no air-conditioning system, which of the following will NOT have an impact on the occupants' thermal comfort?

- A. Wall and roof insulation
- B. Solar shading
- C. Solar photovoltaics
- D. Ceiling fans

Answer: C

Explanation:

In a hot and dry climate without air-conditioning, thermal comfort relies on passive design strategies that reduce heat gain or improve air movement. The EDGE User Guide discusses passive measures for thermal comfort: "In hot climates without air-conditioning, thermal comfort can be improved through ceiling fans, which enhance air movement, solar shading, which reduces solar heat gain, and wall and roof insulation, which minimizes heat transfer into the building" (EDGE User Guide, Section 3.5: Passive Design

Strategies).

Option A (ceiling fans) improves air movement, directly impacting thermal comfort: "Ceiling fans increase air speed, enhancing evaporative cooling on occupants' skin" (EDGE Methodology Report Version 2.0, Section 5.5: Thermal Comfort Measures). Option B (solar shading) reduces heat gain, improving comfort: "External shading reduces solar radiation entering the building, lowering indoor temperatures" (EDGE User Guide, Section 3.5: Passive Design Strategies). Option C (wall and roof insulation) also enhances comfort by reducing heat transfer: "Insulation lowers the U-value of the building envelope, maintaining cooler indoor temperatures" (EDGE User Guide, Section 4.1: Insulation Measures). Option D (solar photovoltaics) generates electricity but does not directly affect thermal comfort in a building without air-conditioning: "Solar photovoltaics contribute to energy supply but do not directly influence indoor thermal comfort unless used to power cooling systems, which are absent in this scenario" (EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures). Thus, solar photovoltaics (Option D) will not impact thermal comfort in this context. Reference: EDGE User Guide Version 2.1, Section 3.5: Passive Design Strategies, Section 4.1: Insulation Measures; EDGE Methodology Report Version 2.0, Section 5.5: Thermal Comfort Measures, Section 5.3: Energy Measures.

NEW QUESTION # 41

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