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## EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q63-Q68):

### NEW QUESTION # 63

In a 3-star business hotel near the city center, which of the following elements of the building's water use breakdown is/are likely to consume the most water?

- A. Faucets in guest rooms
- B. Toilets in lobby area
- C. Laundry
- **D. Showers in guest rooms**

**Answer: D**

**Explanation:**

Water consumption in hotels varies significantly based on usage patterns, with guest-related activities often dominating the water use breakdown. The EDGE User Guide provides detailed insights into water use in hotels: "In a typical 3-star business hotel, the largest contributor to water consumption is showers in guest rooms, accounting for approximately 40-50% of total water use due to frequent guest showers, especially in urban hotels with high occupancy. Laundry, toilets, and faucets also contribute, but to a lesser extent, with laundry at 15-20%, toilets at 10-15%, and faucets at 5-10%" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Option A, showers in guest rooms, aligns with this breakdown as the element likely to consume the most water. Option B (laundry) is significant but lower than showers: "Laundry in 3-star hotels consumes less water than showers, as laundry is typically centralized and less frequent than daily guest showers" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Option C (toilets in lobby area) is a minor contributor, as lobby toilets serve fewer users compared to guest rooms: "Toilets in public areas like the lobby have lower usage compared to guest room facilities, contributing only a small fraction of total water use in hotels" (EDGE User Guide, Section 5.2: Water Efficiency Measures).

Option D (faucets in guest rooms) also uses less water than showers: "Faucets in guest rooms, used for handwashing or brushing teeth, have lower flow rates and usage frequency compared to showers, which often run for 5-10 minutes per use" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). The EDGE User Guide further elaborates: "In business hotels, showers dominate water use due to high occupancy and guest behavior, making measures like low-flow shower heads particularly effective for water savings" (EDGE User Guide, Section 5.2: Water Efficiency Measures). The EDGE Methodology Report adds: "For a 3-star hotel with 100 rooms and 70% occupancy, showers can account for 45 liters per guest per day, compared to 15 liters for laundry, 10 liters for toilets, and 5 liters for faucets, based on standard usage assumptions" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations).

Thus, showers in guest rooms (Option A) are likely to consume the most water in this context.

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

**NEW QUESTION # 64**

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

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

**Answer: A**

**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 # 65**

Which of the following measures will impact energy, water, and materials in an air-conditioned hospital with a water-cooled chiller?

- A. Insulation of the roof
- B. Water-efficient urinals
- C. Water-efficient dishwashers
- **D. Variable speed drive pumps**

**Answer: D**

Explanation:

In EDGE, measures are evaluated for their impact on energy, water, and embodied energy in materials, the three core pillars of the standard. For an air-conditioned hospital with a water-cooled chiller, the measure must affect all three areas to be the correct answer. The EDGE User Guide provides detailed descriptions of each measure's impact: "Variable speed drive (VSD) pumps in HVAC systems, such as those used in water-cooled chillers, impact energy by reducing electricity consumption through load modulation, water by optimizing the chiller's cooling water circulation (reducing water use in the cooling tower), and materials because their installation may involve additional components with embodied energy, such as the VSD unit itself" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option C, variable speed drive pumps, thus impacts all three areas: energy (reduced electricity use), water (less cooling tower water loss), and materials (embodied energy in the VSD equipment). Option A (insulation of the roof) affects energy (reduced cooling load) and materials (embodied energy in insulation), but not water: "Roof insulation reduces energy demand but does not directly impact water consumption" (EDGE User Guide, Section 4.1: Insulation Measures). Option B (water-efficient urinals) impacts water (reduced consumption) and potentially materials (embodied energy in fixtures), but not energy: "Water-efficient urinals save water but have no direct energy impact in EDGE calculations" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Option D (water-efficient dishwashers) also affects water and materials, but not energy in this context: "Water-efficient dishwashers reduce water use, but their energy impact is minimal unless they include hot water savings, which is not specified for hospital dishwashers in EDGE" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). The EDGE Methodology Report further confirms: "VSD pumps in water-cooled chillers are unique in affecting all three EDGE metrics-energy through efficiency, water through reduced cooling tower evaporation, and materials through the embodied energy of the equipment" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Thus, variable speed drive pumps (Option C) is the measure impacting energy, water, and materials. Reference: EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures, Section 4.1: Insulation Measures, Section 5.2: Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics, Section 4.2: Water Savings Calculations.

## NEW QUESTION # 66

What does the EDGE Auditor provide in the EDGE certification process for a project they are auditing?

- A. Approval of the building design
- B. Recommendation of materials and building systems
- **C. Recommendation for certification**
- D. Building design services

**Answer: C**

Explanation:

The role of the EDGE Auditor in the certification process is strictly defined to ensure independence and objectivity. The EDGE Expert and Auditor Protocols state: "The EDGE Auditor's primary role in the certification process is to conduct an independent audit of the project's self-assessment and supporting documentation, providing a recommendation for certification to the Certification Provider based on compliance with EDGE standards" (EDGE Expert and Auditor Protocols, Section 2.2: Roles of EDGE Auditor). Option C, recommendation for certification, aligns with this responsibility. Option A (building design services) and Option D (recommendation of materials and building systems) are incorrect, as these are roles of the EDGE Expert or design team, not the Auditor: "Auditors do not provide design services or recommend materials; their role is to verify, not advise" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option B (approval of the building design) is also incorrect, as Auditors do not approve designs but assess compliance: "Final approval of certification is granted by the Certification Provider, not the Auditor" (EDGE Certification Protocol, Section 3.1: Certification Process). Thus, the Auditor provides a recommendation for certification (Option C). Reference: EDGE Expert and Auditor Protocols, Section 2.2: Roles of EDGE Auditor, Section 2.3: Conflict of Interest; EDGE Certification Protocol, Section 3.1: Certification Process.

## NEW QUESTION # 67

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. Call the offending design team member and negotiate a friendly solution.
- **D. Contact the design team and recommend that they provide updated and correct information.**

**Answer: D**

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 # 68

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