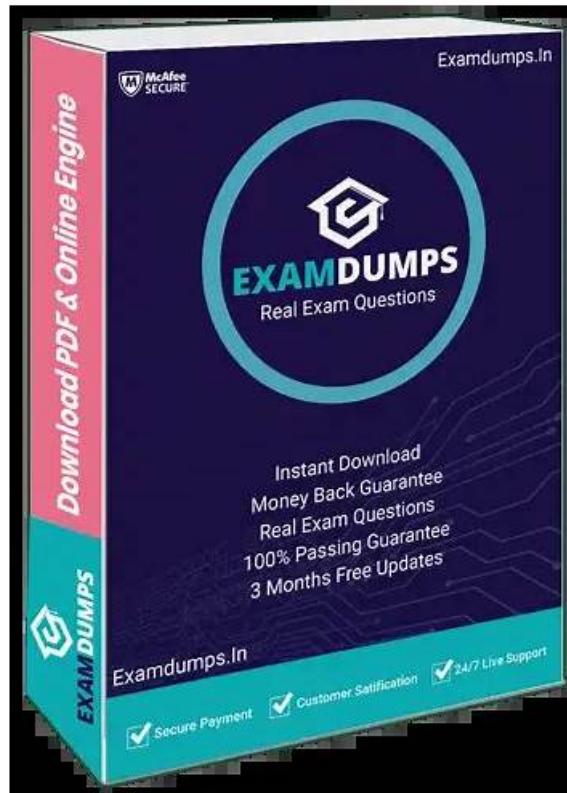


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## EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q61-Q66):

### NEW QUESTION # 61

Which type of evidence is required at the post-construction stage for the efficiency measure window glazing?

- A. Bill of quantities with the specifications for the window glass highlighted
- B. Design building elevations marking the window glass specifications
- C. Window schedule for the building showing the major window glass types if more than one type of glass is present
- D. Manufacturer's data sheets showing the make and model, U-value, and SHGC of the installed glass

### Answer: D

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 # 62

Water consumption savings, resulting from greywater recovery, are based on which of the following?

- A. Incremental cost of installation and cost of water consumption at local tariff
- B. Improved case water consumption
- C. Base case water consumption
- D. Cost of water consumption at local tariff

### Answer: C

Explanation:

Greywater recovery in EDGE is a water efficiency measure, and the software calculates savings by comparing water consumption before and after implementing the measure. The EDGE Methodology Report explains the calculation method: "Water consumption savings from greywater recovery are calculated as the difference between the Base Case water consumption and the Improved Case water consumption after applying the measure. The Base Case represents the typical water use without any efficiency measures, serving as the benchmark for all savings calculations" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Option A, Base Case water consumption, is the correct reference point for determining savings, as it establishes the baseline against which the greywater recovery measure is evaluated. Option B (Improved Case water consumption) is the result after

applying the measure, not the basis for savings. Option C (cost of water consumption at local tariff) and Option D (incremental cost of installation and cost of water consumption at local tariff) relate to financial outputs, not the direct calculation of water savings, as clarified:

"Water savings in EDGE are quantified in volume (liters or cubic meters), not cost, though cost savings are derived later using local tariffs" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Thus, greywater recovery savings are based on Base Case water consumption (Option A).

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.

### NEW QUESTION # 63

The EDGE Preliminary Certificate is issued by the EDGE:

- A. Expert.
- B. Auditor.
- C. Operations and Management Team.
- 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 # 64

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

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

#### Answer: A

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 # 65

Coefficient of Performance (COP) of the electrical chiller is defined as:

- A. Thermal output / electrical input.
- B. Electrical output / electrical input.
- C. Electrical input / thermal output.
- D. Thermal output / thermal input.

**Answer: A**

Explanation:

The Coefficient of Performance (COP) is a critical metric in EDGE for assessing the energy efficiency of chillers, a common green building design element. The EDGE Methodology Report defines COP for electrical chillers: "The Coefficient of Performance (COP) of an electrical chiller is defined as the ratio of thermal output (cooling provided, measured in kW) to electrical input (power consumed, measured in kW). A higher COP indicates greater efficiency, as more cooling is produced per unit of electricity" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Option B, thermal output / electrical input, matches this definition directly. Option A (thermal output / thermal input) is incorrect, as it applies to heat- driven systems like absorption chillers, not electrical ones. Option C (electrical input / thermal output) inverts the ratio, representing the inverse of COP. Option D (electrical output / electrical input) is irrelevant, as chillers produce thermal output, not electrical output. The EDGE User Guide reinforces this: "For air-cooled and water-cooled chillers, COP is calculated as thermal output divided by electrical input to evaluate energy efficiency" (EDGE User Guide, Section 4.2: Energy Efficiency Measures).

Reference:EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics; EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures.

## NEW QUESTION # 66

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