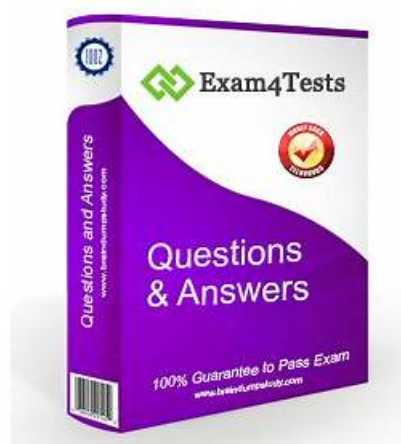


EDGE-Expert Valid Test Question, EDGE-Expert Exam



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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q30-Q35):

NEW QUESTION # 30

A potential EDGE Client is pursuing EDGE Zero Carbon certification for a museum. Which of the following statements is correct?

- A. The building must be operating for at least 12 months at 75% occupancy.
- B. The building must be operating for at least 6 months at 75% occupancy.
- C. The project team can select any typology they consider applicable.
- **D. The project cannot be certified because EDGE does not have a 'museum' typology.**

Answer: D

Explanation:

EDGE Zero Carbon certification, like all EDGE certifications, is limited to specific building typologies supported by the EDGE software, as these typologies have predefined usage patterns for accurate modeling.

The EDGE User Guide lists the supported typologies: "EDGE certification, including EDGE Zero Carbon, is available for the following building typologies: homes, hotels, offices, hospitals, retail, schools, warehouses, and light industry buildings. Museums are not a supported typology in EDGE, as their unique usage patterns, such as specialized HVAC for artifact preservation, are not modeled in the software" (EDGE User Guide, Section 1.2: Scope of EDGE Certification). Option C, the project cannot be certified because EDGE does not have a 'museum' typology, directly aligns with this limitation, as museums are not among the supported building types. Option A (the project team can select any typology they consider applicable) is incorrect, as EDGE requires the use of predefined typologies: "The EDGE software restricts typology selection to predefined categories to ensure accurate Base Case calculations; users cannot create custom typologies for unsupported building types like museums" (EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach). Option B (operating for at least 6 months at 75% occupancy) and Option D (operating for at least

12 months at 75% occupancy) address operational data requirements for EDGE Zero Carbon, but they are irrelevant if the typology is unsupported: "EDGE Zero Carbon certification requires at least 12 months of operational data at 75% occupancy to verify performance, but this applies only to supported typologies" (EDGE Certification Protocol, Section 2.3: Certification Levels). Since museums are not supported, the operational data requirement does not apply, making both B and D incorrect in this context. The EDGE Certification Protocol further confirms: "Buildings like museums, which are not part of EDGE's typology list, cannot be certified, as the software cannot generate a Base Case for unsupported building types, ensuring consistency in certification standards" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard).

The EDGE User Guide adds: "Clients pursuing certification for unsupported typologies, such as museums or cultural centers, will need to explore other green building certifications, as EDGE is not designed for these building types" (EDGE User Guide, Section 1.2: Scope of EDGE Certification). Thus, the project cannot be certified due to the lack of a museum typology (Option C).

Reference: EDGE User Guide Version 2.1, Section 1.2: Scope of EDGE Certification; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard, Section 2.3: Certification Levels; EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach.

NEW QUESTION # 31

What will reduce the hot water demand in a hotel building?

- A. Solar photovoltaics (PVs)
- **B. Low-flow shower heads**
- **C. Heat pumps for hot water**
- **D. Solar water heating**

Answer: B,C,D

Explanation:

Reducing hot water demand in hotels is a key green building strategy in EDGE, focusing on both supply-side and demand-side measures. The EDGE User Guide details measures that reduce hot water demand: "Hot water demand in hotels can be reduced through supply-side measures like solar water heating and heat pumps for hot water, which decrease the energy needed to heat water, and demand-side measures like low-flow shower heads, which reduce the volume of hot water used" (EDGE User Guide, Section 5.2: Water Efficiency Measures, Section 4.2: Energy Efficiency Measures). Option B (solar water heating) reduces hot water demand by providing a renewable heat source, thus lowering energy use for heating. Option C (low-flow shower heads) directly reduces the volume of hot water used by limiting flow rates: "Low-flow shower heads can reduce hot water consumption by up to 30% in hotels" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Option D (heat pumps for hot water) reduces energy demand for heating water by using a more efficient system: "Heat pumps for hot water have a high COP, reducing the energy required to meet hot water demand" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option A (solar photovoltaics) generates electricity, not hot water, and does not directly reduce hot water demand:

"Solar PVs contribute to electricity generation, not hot water production" (EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures). Thus, Options B, C, and D all reduce hot water demand in a hotel.
Reference:EDGE User Guide Version 2.1, Section 5.2: Water Efficiency Measures, Section 4.2: Energy Efficiency Measures; EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations, Section 5.3: Energy Measures.

NEW QUESTION # 32

Which of the following must be included in the EDGE Auditor submission for Preliminary Certification?

- A. The design audit site visit results verified by the EDGE Auditor.
- B. All of the available design data.
- C. The Chapter 5 EDGE certification protocol.
- **D. Compliance documents for selected measures.**

Answer: D

Explanation:

The EDGE Auditor's submission for Preliminary Certification (design stage) must include specific elements to support the recommendation for certification. The EDGE Certification Protocol specifies: "For Preliminary Certification, the EDGE Auditor's submission must include compliance documents for the selected measures, such as drawings, specifications, and manufacturer's data sheets, which verify that the design aligns with the self-assessment in the EDGE software. These documents are reviewed by the Certification Provider to confirm eligibility" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option C, compliance documents for selected measures, directly matches this requirement. Option A (all available design data) is too broad and not required: "Only documents directly related to the selected measures are needed, not all design data" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option B (Chapter 5 EDGE certification protocol) is incorrect, as this refers to the protocol document itself, not a submission component:

"The certification protocol is a reference, not part of the Auditor's submission" (EDGE Certification Protocol, Section 1.1: Overview). Option D (design audit site visit results) is incorrect, as site visits are not required at the design stage: "Preliminary Certification is based on a desk audit, not a site visit, which occurs at the post- construction stage" (EDGE Certification Protocol, Section 3.3: Certification Decision). Thus, compliance documents (Option C) are required in the submission.

Reference:EDGE Certification Protocol, Section 3.2: Audit Requirements, Section 3.3: Certification Decision, Section 1.1: Overview.

NEW QUESTION # 33

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 # 34

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

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

Answer: D

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 # 35

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