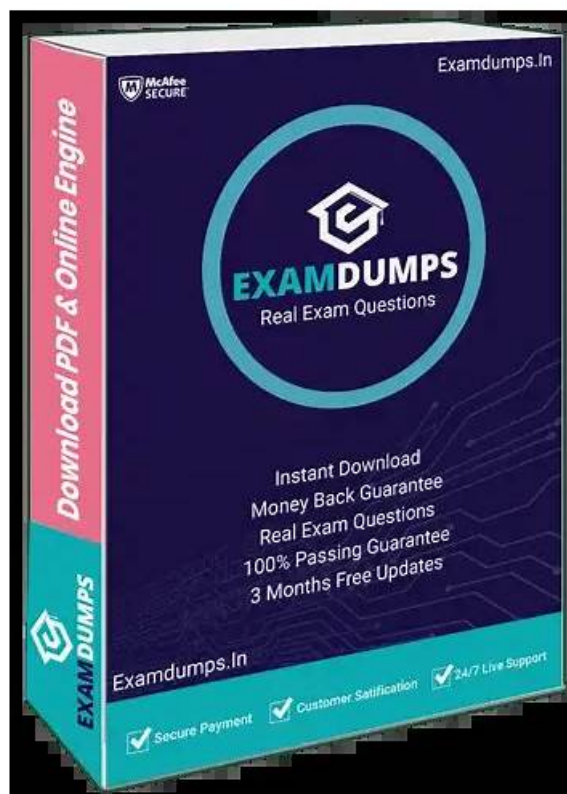


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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q50-Q55):

NEW QUESTION # 50

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

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

Answer: A

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 # 51

In the EDGE software, what is the unit of the embodied carbon of the material?

- A. kWh
- B. MJ
- C. BTU
- D. kgCO₂

Answer: D

Explanation:

Embodied carbon in EDGE refers to the carbon emissions associated with the production, transportation, and installation of building materials, a key metric for materials efficiency. The EDGE User Guide specifies how this is measured: "In the EDGE software, the embodied carbon of materials is quantified in kilograms of carbon dioxide equivalent (kgCO₂), reflecting the total greenhouse gas emissions associated with the material's lifecycle, from extraction to installation" (EDGE User Guide, Section 7.2: Materials Efficiency Measures).

Option A, kWh, directly matches this unit, as EDGE uses kgCO₂ to standardize carbon emissions across materials, allowing for

comparison and aggregation in the software's results. Option B (MJ) is incorrect, as MJ (megajoules) measures embodied energy, not carbon: "Embodied energy in EDGE is measured in MJ, representing the energy consumed in material production, while embodied carbon is separately calculated in kgCO₂ to assess environmental impact" (EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials). Option C (BTU) is also incorrect, as BTU (British Thermal Units) is an energy unit not used in EDGE for carbon calculations: "EDGE uses metric units like MJ for energy and kgCO₂ for carbon; BTU is not a standard unit in the software" (EDGE User Guide, Section 2.3: Using the EDGE App). Option D (kWh) is another energy unit, typically used for operational energy, not embodied carbon: "kWh is used in EDGE to measure operational energy consumption, such as electricity use, but not for embodied carbon, which is always in kgCO₂" (EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods). The EDGE User Guide further clarifies: "The software displays embodied carbon in kgCO₂ to align with global carbon accounting standards, enabling users to understand the environmental footprint of their material choices" (EDGE User Guide, Section 7.2: Materials Efficiency Measures). The EDGE Methodology Report adds: "For example, concrete might have an embodied carbon of 0.15 kgCO₂ per kg, allowing users to compare materials like fly ash concrete versus standard concrete in terms of carbon impact" (EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials). Thus, the unit of embodied carbon in EDGE is kgCO₂ (Option A).

Reference:EDGE User Guide Version 2.1, Section 7.2: Materials Efficiency Measures, Section 2.3: Using the EDGE App; EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials, Section 5.2: Energy Calculation Methods.

NEW QUESTION # 52

In the EDGE software, the Base Case selection of external wall materials in hotels relies on information derived from:

- A. Global building practices as well as international building performance codes, where they are in existence.
- **B. Typical building practices as well as national building performance codes, where they are in existence.**
- C. Hotel developers' corporate standard specifications, or materials which have been accredited by the hotel industry.
- D. Local building material suppliers who subscribe to EDGE certification for their materials, or are nationally accredited by the local standards authority.

Answer: B

Explanation:

The EDGE software uses a Base Case to establish a benchmark for resource consumption, tailored to local conditions. The EDGE Methodology Report explains how the Base Case is constructed: "The Base Case for external wall materials in hotels is determined using data from market surveys of typical building practices in the project's country, supplemented by national building performance codes where available. This ensures the baseline reflects local construction norms and regulatory standards" (EDGE Methodology Report Version 2.0, Section 3.1: Base Case Determination). Option A matches this description by referencing typical building practices and national codes. Option B incorrectly refers to global practices and international codes, which EDGE does not use, as the software prioritizes local context. Option C, focusing on corporate specifications, is not part of the Base Case methodology, as the Base Case is standardized, not project-specific. Option D, involving local suppliers or accreditation, is irrelevant to how EDGE determines the Base Case, which relies on broader market data rather than supplier-specific information.

Reference:EDGE Methodology Report Version 2.0, Section 3.1: Base Case Determination; EDGE User Guide Version 2.1, Section 2.3: Using the EDGE App.

NEW QUESTION # 53

Which of the following describes a more efficient lamp?

- A. Longer life
- B. Lower watts/m²
- **C. More lumens/watt**
- D. Lower wattage

Answer: C

Explanation:

Lamp efficiency in EDGE is a key factor in reducing energy consumption for lighting, a critical green building design strategy. The EDGE User Guide defines lamp efficiency: "In EDGE, a more efficient lamp is one that provides higher lumens per watt, meaning it produces more light output (lumens) for the same electrical input (watts). This metric, known as luminous efficacy, is used to evaluate lighting efficiency measures like EEM22 - Efficient Lighting for Internal Areas" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). Option A, more lumens/watt, directly aligns with this definition, as it indicates greater efficiency in converting electricity to light. Option B (lower watts/m²) refers to lighting power density, which is a design metric, not a lamp characteristic: "Watts/m² is a

measure of lighting power density for a space, not the efficiency of an individual lamp" (EDGE Methodology Report Version 2.0, Section 5.4: Lighting Calculations). Option C (longer life) relates to durability, not efficiency: "Lamp life affects maintenance costs but is not a direct measure of energy efficiency in EDGE" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). Option D (lower wattage) alone does not indicate efficiency, as a lamp with lower wattage but poor light output would be less efficient: "Lower wattage must be paired with adequate lumens to improve efficiency" (EDGE Methodology Report Version 2.0, Section 5.4: Lighting Calculations). Thus, more lumens/watt (Option A) describes a more efficient lamp.
Reference: EDGE User Guide Version 2.1, Section 4.4: Lighting Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.4: Lighting Calculations.

NEW QUESTION # 54

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. Approval of the building design
- C. Building design services
- **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 # 55

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