

Useful EDGE-Expert Dumps - EDGE-Expert New Exam Materials



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EDGE EDGE-Expert Exam Syllabus Topics:

Section	Weight	Objectives
EDGE System Overview	15%	- Building Types & Applicability • 1. Residential • 2. Commercial (Retail, Office, Hospital) • 3. Hospitality & Educational Buildings - Understanding the EDGE Standard • 1. EDGE Categories (Energy, Water, Materials) • 2. EDGE Certification Program • 3. Benefits of Green Buildings - EDGE Certification Process • 1. Certification Steps • 2. Required Documentation • 3. GBCI Certification Services

Energy Efficiency	25%	- Energy Consumption • 1. Energy-saving measures • 2. Overall energy demand of buildings • 3. Virtual energy for comfort - Lighting & Hot Water • 1. Energy demand for hot water • 2. Energy demand for lighting - HVAC Systems • 1. Technologies for Heating, Ventilation and Air Conditioning
Financial & Results Analysis	10%	- Results and outputs of EDGE • 1. Baseline, utility savings, GHGs reduced • 2. Financial outputs in results bar
Software & Methodology	25%	- Baseline & Proposed Building Models • 1. Proposed Design Inputs • 2. Basecase Definition - Climate Zones & Weather Data • 1. Impact of Climate on Building Design - EDGE Software Interface • 1. User Interface Navigation • 2. Data Entry Requirements
Water Efficiency & Materials	25%	- Water Demand • 1. Water sources (mains-supplied, recovered, recycled) • 2. Water-saving measures • 3. Base case water use in each building type • 4. Rainwater harvesting, recycling and other conservation techniques - Materials Embodied Energy (EE) • 1. Materials EE measures • 2. Base case definition

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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q74-Q79):

NEW QUESTION # 74

Which of the following passive design features is considered within the EDGE calculation methodology?

- A. Efficient cooling system

- B. Lighting controls
- C. Renewable energy
- D. External shading

Answer: D

Explanation:

Passive design features in EDGE focus on reducing energy demand through architectural and design strategies that minimize the need for active systems. The EDGE User Guide lists passive design measures included in its methodology: "Passive design features in EDGE include external shading, natural ventilation, insulation, and high-reflectivity materials, which reduce energy demand for heating, cooling, and lighting by leveraging climate and site conditions" (EDGE User Guide, Section 3.5: Passive Design Strategies). Option B, external shading, is explicitly mentioned as a passive design feature that reduces solar heat gain, thereby lowering cooling energy needs. Option A (lighting controls) is an active measure, not passive, as it involves electrical systems. Option C (renewable energy) is an energy generation measure, not a passive design strategy, as noted in the EDGE Methodology Report: "Renewable energy systems like solar PV are treated as energy supply measures, not passive design" (EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures). Option D (efficient cooling system) is also an active system, not passive. Thus, external shading (Option B) is the correct passive design feature within EDGE's calculation methodology.

Reference: EDGE User Guide Version 2.1, Section 3.5: Passive Design Strategies; EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures.

NEW QUESTION # 75

Which of the following is NOT a characteristic of the EDGE standard?

- A. Simple, as beneath the intuitive interface is a powerful engine that understands local climate and how buildings will be used
- B. Smart, as capital costs and payback period for buildings are displayed
- C. Holistic approach that takes into account wider sustainability issues
- D. Fast tool with ideal measures for the best return on investment

Answer: C

NEW QUESTION # 76

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

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

Answer: B

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 # 77

How often is the EDGE Baseline reviewed, including the geographic coverage of EDGE?

- A. 6-8 years
- B. 1-2 years
- C. 8-10 years
- **D. 3-5 years**

Answer: D

Explanation:

In the CBCI EDGE curriculum, the EDGE Baseline is not fixed permanently because construction practices, typical system efficiencies, and national or city regulations evolve over time. To ensure that EDGE continues to represent a realistic and fair comparison against "standard practice" in each location, the EDGE Baseline is periodically reviewed and updated. The curriculum explains that baseline reviews are undertaken every 3 to 5 years when needed, and this review can include updates to the geographic coverage of EDGE, such as adding new countries or refining baselines where market conditions or codes have changed. This review cycle helps maintain the credibility of the 20 percent savings thresholds by making sure the baseline remains aligned with what is commonly built in a given market. If baselines were updated too frequently, it would create instability for project planning; if updated too rarely, the baseline could become outdated and no longer reflect typical practice. The 3 to 5 year interval balances stability with relevance, ensuring that EDGE benchmarking stays accurate across different regions and over time.

NEW QUESTION # 78

An EDGE Auditor has been requested to provide auditing services to a development client. This particular client is well known as a hard negotiator and has offered the appointment on the basis of 50% payment for assessment and 50% upon successful EDGE certification of the building. What should the EDGE Auditor do?

- A. Lodge a complaint against the developer with the local authorities.
- B. Accept these terms, knowing that the project will most likely achieve certification.
- **C. Confirm a fixed fee independent of the final assessment result.**
- D. Refer the developer to another Auditor in the area who needs the work.

Answer: C

Explanation:

EDGE Auditors must adhere to strict ethical guidelines to maintain independence and avoid conflicts of interest, particularly regarding payment structures that could influence their impartiality. The EDGE Expert and Auditor Protocols address payment terms explicitly: "An EDGE Auditor must confirm a fixed fee for their services that is independent of the final assessment result. Payment structures that tie fees to the success of certification, such as contingent payments, are prohibited to ensure the Auditor's objectivity and to prevent any perception of bias in the audit process" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). The client's offer of 50% payment for assessment and 50% upon successful certification violates this principle, as it makes part of the fee contingent on the outcome. Option A, confirm a fixed fee independent of the final assessment result, aligns with this ethical requirement, ensuring the Auditor's impartiality. Option B (lodge a complaint with local authorities) is incorrect, as this is an overreaction and outside the Auditor's role: "Issues related to payment terms should be resolved directly with the Client, not escalated to local authorities, which are unrelated to EDGE certification" (EDGE Expert and Auditor Protocols, Section 4.1: Audit Process). Option C (refer the developer to another Auditor) avoids the issue but does not address the ethical concern: "Referring the Client to another Auditor does not resolve the ethical violation of contingent fees, which applies to all Auditors" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest).

Conflict of Interest). Option D (accept the terms) is unethical, as it compromises the Auditor's independence:

"Accepting payment terms tied to certification success, even if the project is likely to succeed, violates EDGE protocols and undermines the integrity of the certification process" (EDGE Certification Protocol, Section 3.1:

Certification Process). The EDGE User Guide further emphasizes: "Auditors must maintain strict independence, ensuring their compensation is not influenced by the certification outcome, to uphold the credibility of EDGE certification" (EDGE User Guide, Section 6.5: Working with EDGE Auditors). Thus, the Auditor should confirm a fixed fee (Option A).

Reference:EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest, Section 4.1: Audit Process; EDGE Certification

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