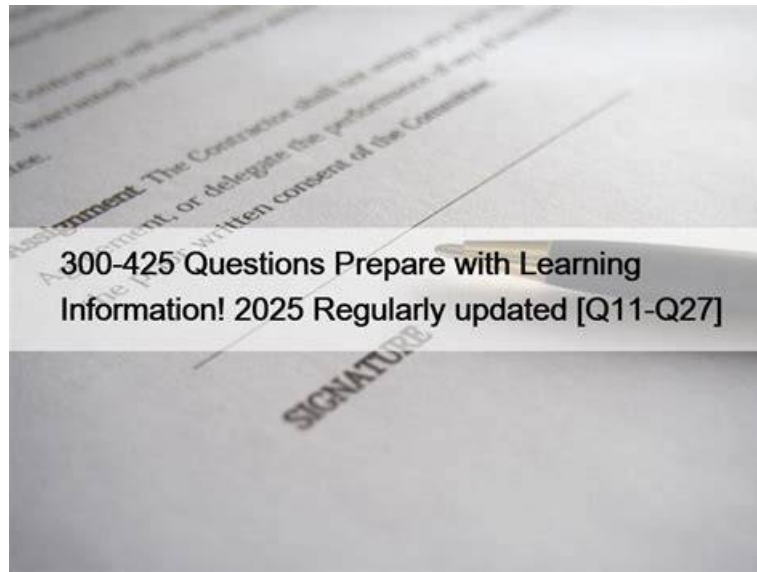


New EDGE-Expert Test Braindumps - EDGE-Expert Practical Information



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EDGE EDGE-Expert Exam Syllabus Topics:

Section	Weight	Objectives
		- Results and outputs of EDGE
Topic 1: Financial & Results Analysis	10%	1. Financial outputs in results bar 2. Baseline, utility savings, GHGs reduced
		- EDGE Software Interface
		1. User Interface Navigation 2. Data Entry Requirements
		- Climate Zones & Weather Data
Topic 2: Software & Methodology	25%	1. Impact of Climate on Building Design
		- Baseline & Proposed Building Models
		1. Proposed Design Inputs 2. Basecase Definition

		- Energy Consumption • 1. Overall energy demand of buildings • 2. Virtual energy for comfort • 3. Energy-saving measures
Topic 3: Energy Efficiency	25%	- Lighting & Hot Water • 1. Energy demand for hot water • 2. Energy demand for lighting - HVAC Systems • 1. Technologies for Heating, Ventilation and Air Conditioning - Understanding the EDGE Standard • 1. EDGE Categories (Energy, Water, Materials) • 2. EDGE Certification Program • 3. Benefits of Green Buildings - Building Types & Applicability • 1. Residential • 2. Hospitality & Educational Buildings • 3. Commercial (Retail, Office, Hospital)
Topic 4: EDGE System Overview	15%	- EDGE Certification Process • 1. GBCI Certification Services • 2. Certification Steps • 3. Required Documentation - Water Demand • 1. Rainwater harvesting, recycling and other conservation techniques • 2. Base case water use in each building type • 3. Water-saving measures • 4. Water sources (mains-supplied, recovered, recycled)
Topic 5: Water Efficiency & Materials	25%	- Materials Embodied Energy (EE) • 1. Base case definition • 2. Materials EE measures

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EDGE-Expert Practical Information & Exam EDGE-Expert Preview

Our EDGE-Expert study guide has become a brand for our candidates to get help for their exams. Because our EDGE-Expert learning materials contain not only the newest questions appeared in real exams in these years, but the most classic knowledge to master. Besides, it is unavoidable that you may baffle by some question points during review process of the EDGE-Expert Exam Questions, so there are clear analysis under some necessary questions.

EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q25-Q30):

NEW QUESTION # 25

Which of the following types of energy consumption results from EDGE?

- A. Primary energy

- B. Renewable energy
- **C. Delivered energy**
- D. Electrical energy

Answer: C

Explanation:

According to the CBCI EDGE curriculum, the EDGE software calculates and reports building energy performance based on delivered energy consumption. Delivered energy refers to the actual energy supplied to the building from external sources such as electricity from the grid, natural gas, district cooling, or other fuels.

The software estimates annual energy use for both the baseline case and the improved case and expresses savings as a percentage reduction in delivered energy.

EDGE does not primarily report results in terms of primary energy, which would include upstream energy losses associated with extraction, generation, and transmission. While primary energy is a common metric in some building assessment systems, EDGE focuses on delivered energy because it is directly measurable, easier to verify, and more applicable across diverse markets globally. Electrical energy alone is also not the sole output, since buildings may use multiple energy carriers such as gas or district systems. Renewable energy is considered within the improved case when on-site systems such as solar photovoltaics are included, but it is not itself the energy consumption result; rather, it offsets delivered energy demand. Therefore, the correct answer is delivered energy.

NEW QUESTION # 26

An EDGE Auditor is auditing a hospital design for Preliminary Certification. The EDGE Client has included photovoltaics as one of the energy measures resulting in an overall 21% saving in energy. The Auditor observes the photovoltaics are facing the wrong direction. What action should the Auditor take?

- A. Contact the design team directly and suggest a better orientation for the photovoltaics.
- **B. Assess the energy measures as they are presented to you, without changing the photovoltaic selection.**
- C. Reject photovoltaics from the selected set of energy measures and notify the Client regarding the orientation.
- D. Adjust the area of photovoltaic panels in the assessment to allow for reduction in energy output.

Answer: B

Explanation:

The role of an EDGE Auditor is to verify the project's self-assessment as submitted, not to modify or redesign the project. The EDGE Expert and Auditor Protocols clearly define the Auditor's responsibilities: "During an audit, the EDGE Auditor must assess the energy measures as presented in the self-assessment, without altering the design or selections made by the Client. If discrepancies are found, such as incorrect orientation of photovoltaics, the Auditor should note the issue in the audit report but proceed with the assessment as submitted, allowing the Certification Provider to make the final decision" (EDGE Expert and Auditor Protocols, Section 4.1: Audit Process). Option C, assess the energy measures as they are presented without changing the photovoltaic selection, aligns with this protocol. Option A (contact the design team and suggest a better orientation) oversteps the Auditor's role, as they are not to provide design advice: "Auditors must not engage in design consultancy during an audit to avoid conflicts of interest" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option B (adjust the area of photovoltaic panels) involves modifying the assessment, which is prohibited: "Auditors cannot modify the Client's self-assessment; they must evaluate it as submitted" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option D (reject photovoltaics and notify the Client) is also incorrect, as Auditors do not have the authority to reject measures outright: "Rejection of measures is the responsibility of the Certification Provider, not the Auditor" (EDGE Certification Protocol, Section 3.3: Certification Decision). Thus, the Auditor should assess as presented (Option C).

Reference: EDGE Expert and Auditor Protocols, Section 4.1: Audit Process, Section 2.3: Conflict of Interest; EDGE Certification Protocol, Section 3.2: Audit Requirements, Section 3.3: Certification Decision.

NEW QUESTION # 27

EDGE was created for new buildings to promote:

- A. Few exemplary high-performance buildings.
- B. Highly accurate prediction of resource consumption.
- C. Revenue for green building champions.
- **D. Simple and scalable platform for green buildings.**

Answer: D

Explanation:

The purpose of EDGE, as defined by the International Finance Corporation (IFC), is to make green building accessible and scalable, particularly in emerging markets. The EDGE User Guide states: "EDGE was created by IFC to promote a simple and scalable platform for green buildings, enabling developers to achieve resource efficiency in new constructions through a user-friendly tool that focuses on energy, water, and materials savings" (EDGE User Guide, Section 1.1: Introduction to EDGE). Option C, a simple and scalable platform for green buildings, directly aligns with this mission. Option A (revenue for green building champions) is incorrect, as EDGE's goal is not financial gain for individuals but broader market transformation: "EDGE aims to transform the building sector, not to generate revenue for specific stakeholders" (EDGE Certification Protocol, Section 1.1: Overview). Option B (few exemplary high- performance buildings) contradicts EDGE's scalability focus: "EDGE is not about creating a few high-performance buildings but enabling widespread adoption of green practices" (EDGE User Guide, Section 1.1:

Introduction to EDGE). Option D (highly accurate prediction of resource consumption) is also incorrect, as EDGE prioritizes simplicity over precision: "EDGE uses simplified calculations for resource consumption, not highly accurate predictions, to ensure accessibility" (EDGE Methodology Report Version 2.0, Section 2.1:

Calculation Approach). Thus, EDGE promotes a simple and scalable platform (Option C).

Reference: EDGE User Guide Version 2.1, Section 1.1: Introduction to EDGE; EDGE Certification Protocol, Section 1.1: Overview; EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach.

NEW QUESTION # 28

When properly designed, which of the following ventilation strategies can improve comfort by providing access to fresh air and reducing temperature without using any energy?

- A. Continuously running mechanical ventilation
- B. Energy recovery ventilator
- C. Heat recovery ventilator
- **D. Natural ventilation**

Answer: D

Explanation:

According to the CBCI EDGE curriculum, natural ventilation is a passive design strategy that enhances indoor comfort by allowing fresh outdoor air to enter and circulate through a building without the use of mechanical systems. When properly designed, natural ventilation utilizes pressure differences created by wind and temperature variations, such as cross ventilation and stack effect, to drive airflow. This can reduce indoor temperatures and improve air quality without consuming electrical energy for fans or mechanical equipment.

In contrast, heat recovery ventilators and energy recovery ventilators are mechanical systems that use fans to move air through heat exchange cores. Although they are energy-efficient compared to conventional mechanical ventilation, they still require electrical power to operate. Similarly, continuously running mechanical ventilation systems depend entirely on powered fans and therefore consume energy.

EDGE promotes passive design measures, including natural ventilation where climate conditions permit, as a means to reduce cooling loads and improve energy performance. Because it operates without mechanical energy input, natural ventilation is the only option listed that meets the condition of improving comfort without using any energy.

NEW QUESTION # 29

A medium-rise building comprises retail on the first two floors with offices on succeeding floors (third to fifth). If one of the tenants on the third floor aims for EDGE certification, which building type should be used?

- A. Mixed-use
- **B. Office**
- C. Core and Shell
- D. Retail

Answer: B

Explanation:

The EDGE software requires users to select a building type (typology) to model resource consumption accurately, and the choice depends on the scope of the certification. In this scenario, a tenant on the third floor (an office floor) of a medium-rise building seeks EDGE certification. The EDGE User Guide provides guidance on selecting building types for tenant spaces: "When a tenant within a larger building seeks EDGE certification, the building type should reflect the tenant's space. For an office tenant on the third floor of a mixed-use building, the 'Office' typology should be selected, as the certification applies only to the tenant's space, not the entire

building, unless the whole building is being certified" (EDGE User Guide, Section 2.2:

Project Setup). Option A, Office, aligns with this guidance, as the tenant's space is an office. Option B (Retail) is incorrect, as the retail floors are on the first two levels, not the third: "Retail typology would apply if the tenant space were on the retail floors, not the office floors" (EDGE User Guide, Section 2.2: Project Setup). Option C (Mixed-use) is also incorrect, as this typology applies to the entire building, not a single tenant space: "Mixed-use typology is used when the entire building, including all uses (e.g., retail and offices), is being certified, not for individual tenant spaces" (EDGE Methodology Report Version 2.0, Section

2.1: Calculation Approach). Option D (Core and Shell) is typically used for buildings certified up to the core and shell stage, not for tenant fit-outs: "Core and Shell typology applies to buildings certified without tenant fit-outs, focusing on the building envelope and systems, not individual tenant spaces like an office" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard). The EDGE User Guide further clarifies: "For tenant-led certifications, the typology should match the tenant's use-e.g., 'Office' for an office tenant-even if the building has multiple uses, ensuring the Base Case reflects the tenant's specific consumption patterns" (EDGE User Guide, Section 2.2: Project Setup). Since the tenant on the third floor operates an office, the Office typology (Option A) is the correct choice for EDGE certification.

Reference:EDGE User Guide Version 2.1, Section 2.2: Project Setup; EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard.

NEW QUESTION # 30

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