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**EDGE Expert  
Training V3**



**Event Title:** EDGE Training to Become Eligible for the EDGE Expert Exam  
**Date & Time:** 1<sup>st</sup> June 2024 (9:30 am IST to 5:30 PM IST)  
**Training Fees:** 8000 Rs (Including 18% GST)  
**Training Mode:** Online ([Registration Link](#))  
Candidates can attend training from our Mumbai Office as well.  
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## EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q55-Q60):

### NEW QUESTION # 55

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

**Answer: C**

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 # 56

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

- A. External shading
- B. Efficient cooling system
- C. Renewable energy
- D. Lighting controls

**Answer: A**

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 # 57

What or who determines the baseline assumptions in EDGE?

- A. EDGE Auditors
- B. EDGE software users
- C. Market survey of best construction practices
- D. Market survey of typical construction practices

**Answer: D**

Explanation:

The baseline assumptions in EDGE software, known as the Base Case, are critical for calculating resource savings and are determined using standardized data. The EDGE Methodology Report explains: "Baseline assumptions in EDGE, referred to as the Base Case, are determined by market surveys of typical construction practices in the project's country, reflecting common materials, systems, and design practices for the selected typology and location" (EDGE Methodology Report Version 2.0, Section 3.1: Base Case Determination).

Option C, market survey of typical construction practices, aligns with this methodology. Option A (EDGE software users) is incorrect, as users do not set the baseline; they input project-specific data. Option B (EDGE Auditors) is also incorrect, as auditors verify compliance, not establish baselines. Option D (market survey of best construction practices) is wrong because EDGE uses typical practices, not best practices, to create a realistic benchmark, as clarified in the EDGE User Guide: "The Base Case reflects typical local practices, not best practices, to ensure a fair comparison for resource savings" (EDGE User Guide, Section 2.3: Using the EDGE App).

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 # 58

Variable speed drives in HVAC systems help:

- A. Reduce water consumption.
- **B. Reduce energy consumption.**
- C. Increase the speed.
- D. Reduce the speed.

**Answer: B**

Explanation:

Variable speed drives (VSDs) are a recognized energy efficiency measure in EDGE for optimizing HVAC system performance. The EDGE User Guide explains their role: "Variable speed drives in HVAC systems, such as those used in fans and pumps, adjust the motor speed to match the load demand, significantly reducing energy consumption compared to fixed-speed systems. This measure can achieve up to 30% energy savings in HVAC operations" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option C, reduce energy consumption, directly aligns with this description. Option A (reduce the speed) and Option B (increase the speed) are partially correct in that VSDs adjust speed, but the primary benefit in EDGE is energy savings, not speed adjustment itself. "The goal of VSDs in EDGE is energy reduction through speed modulation, not speed adjustment as an end" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Option D (reduce water consumption) is incorrect, as VSDs impact energy use, not water: "VSDs are an energy measure and do not directly affect water consumption in HVAC systems" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Thus, VSDs help reduce energy consumption (Option C).

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

### NEW QUESTION # 59

The COP of the water-cooled chiller is 6, and the cooling thermal load is 3516 W. What is the power rating of the chiller?

- A. 3510 W
- B. 3522 W
- **C. 586 W**
- D. 21096 W

**Answer: C**

Explanation:

The Coefficient of Performance (COP) is used in EDGE to calculate the electrical power input required for a given thermal output of a chiller. The EDGE Methodology Report defines COP as: "COP is the ratio of thermal output to electrical input, expressed as  $COP = \text{Thermal Output} / \text{Electrical Input}$ . To find the electrical input (power rating), rearrange the formula:  $\text{Electrical Input} = \text{Thermal Output} / COP$ " (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Given the COP of the water-cooled chiller as 6 and the cooling thermal load (thermal output) as 3516 W, the power rating is calculated as follows:  $\text{Electrical Input} = 3516 \text{ W} / 6 = 586 \text{ W}$ . Option A, 586 W, matches this calculation. Option B (3510 W) is incorrect, as it is slightly less than the thermal output, implying an unrealistic COP near 1. Option C (3522 W) is slightly above the thermal output, also incorrect. Option D (21096 W) is the result of multiplying the thermal output by the COP ( $3516 \times 6$ ), which is the inverse of the correct calculation. The EDGE User Guide confirms: "For a chiller with a COP of 6, the electrical input is one-sixth of the thermal output,

ensuring energy efficiency is accurately assessed" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Thus, the power rating is 586 W (Option A).  
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 # 60

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