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37	A	B	C	D	E
38	A	B	C	D	E
39	A	B	C	D	E

PRACTICE QUESTIONS

Green Business Certification Inc. (GBCI)

BDCB

LEED AP Building design + construction BETA

EDITION

Demo

QUESTIONS

9

FORMAT

Limited Edition PDF

Before you begin

What this is

9 practice questions for Green Business Certification Inc. (GBCI) BDCB , each with its answer key and an explanation. Answer a question before you read its key — the explanation is worth more once you have committed.

If something looks wrong

Send us three things and we will check it:

- the exam code, BDCB
- the question number
- the email address on your order

Write to **support@mometrix.net**. We reply within one business day.

QUESTION 1

SINGLE CHOICE

A project is pursuing the LEED v4 BD+C Bicycle Facilities credit. Which of the following must be provided to meet the credit requirements?

- ☐ A A minimum of one shower for every 50 bicycle parking spaces
- ☒ B Short-term bicycle racks within 200 feet of any building entrance
- ☐ C A dedicated bicycle repair station on every floor of the building
- ☐ D Secure, enclosed long-term bicycle storage for at least 5% of all building occupants

ANSWER B

WHY The Bicycle Facilities credit in LEED v4 BD+C requires short-term bicycle racks located within 200 feet of a building entrance and long-term bicycle storage for a percentage of building occupants, along with showers and changing facilities. Option B correctly identifies the short-term rack proximity requirement, while the other options misrepresent the credit's scope, distances, or ratios.

QUESTION 2

SINGLE CHOICE

Which of the following best describes the intent of the LEED v4 BD+C Site Development - Protect or Restore Habitat credit?

- ☐ A To require that 100% of the project site be restored to native vegetation
- ☒ B To conserve existing natural areas and restore damaged site areas to provide habitat and promote biodiversity
- ☐ C To mandate the removal of all invasive plant species from the property and adjacent parcels
- ☐ D To limit the total building footprint to no more than 20% of the developable site area

ANSWER B

WHY The intent of this credit is to conserve existing natural areas and restore damaged areas of the site to provide habitat and promote biodiversity. It is not a 100% restoration requirement (A is too strict), it does not extend to adjacent parcels (C), and it does not set a specific 20% footprint limit (D).

QUESTION 3

SINGLE CHOICE

For the LEED v4 BD+C Indoor Water Use Reduction prerequisite, the project's baseline indoor water use must be calculated using which of the following references?

- ☐ A EPA 1992 fixture performance standards
- ☐ B ASHRAE Standard 90.1-2007 fixture flow rates
- ☒ C The Energy Policy Act of 2005 fixture flow rates
- ☐ D International Plumbing Code (IPC) default fixture rates

ANSWER C

WHY LEED v4 BD+C bases the Indoor Water Use Reduction calculations on the fixture flow rates defined by the Energy Policy Act of 2005 (EPA 2005), which serves as the baseline against which percentage reductions are measured. ASHRAE 90.1-2007 (B) is used for energy baselines, not water baselines in this prerequisite, and the other options do not match the LEED v4 reference standard.

QUESTION 4

SINGLE CHOICE

Under the LEED v4 BD+C Fundamental Commissioning and Verification prerequisite, who is required to perform the commissioning authority (CxA) activities?

- ☐ A The general contractor's project manager
- ☒ B An individual qualified to lead, plan, and review the commissioning process who is independent of the project's design and construction team
- ☐ C The lead architect of record on the project
- ☐ D A representative of the building owner's facilities operations staff assigned at schematic design

ANSWER B

WHY The prerequisite requires a commissioning authority (CxA) that is independent of the design and construction team to avoid conflicts of interest and ensure objective verification. The general contractor, lead architect, and owner's representative (options A, C, and D) do not meet the independence requirement stated in LEED v4.

QUESTION 5

SINGLE CHOICE

Which of the following is required to meet the LEED v4 BD+C Thermal Comfort credit?

- ☐ A Provide a permanently installed humidification system in all occupied zones
- ☒ B Meet ASHRAE Standard 55-2010, Thermal Environmental Conditions for Human Occupancy, and provide individual thermal comfort controls for at least 50% of occupied space
- ☐ C Install radiant cooling ceilings in all conference and meeting rooms
- ☐ D Maintain a single zone setpoint of 72°F (22°C) year-round throughout the building

ANSWER B

WHY The Thermal Comfort credit in LEED v4 BD+C requires compliance with ASHRAE Standard 55-2010 and the provision of individual thermal comfort controls for a specified percentage of occupied space. The credit does not mandate humidification (A), radiant ceilings (C), or a single uniform setpoint (D), which would actually conflict with the intent of personal comfort control.

QUESTION 6

SINGLE CHOICE

For the LEED v4 BD+C Construction and Demolition Waste Management credit, which waste streams are explicitly excluded from the calculations of diverted waste?

- ☐ A Concrete, brick, and metal scrap generated from site clearing
- ☒ B Hazardous waste, land-clearing debris from naturally occurring vegetation, and soil
- ☐ C Cardboard, metal, and clean wood packaging from delivered materials
- ☐ D Gypsum board scrap, ceiling tiles, and insulation off-cuts

ANSWER B

WHY LEED v4 BD+C Construction and Demolition Waste Management calculations exclude hazardous waste, land-clearing debris from naturally occurring vegetation, and soil from the diverted waste tally. Options A, C, and D describe recyclable or salvageable materials that typically count toward diversion.

QUESTION 7 SINGLE CHOICE

Which of the following best describes a key requirement of the LEED v4 BD+C Integrative Process credit?

- ☐ A Conducting a life-cycle cost analysis for the building envelope after construction documents are complete
- ☒ B Using an integrative design process that begins in pre-design and involves cross-disciplinary team collaboration to identify and address synergies across systems
- ☐ C Selecting all major building materials at least 90 days before bid to allow for supply-chain verification
- ☐ D Assigning a single LEED AP to coordinate all sustainability documentation for the project

ANSWER B

WHY The Integrative Process credit requires that the project team begin an integrative design process early (in pre-design) with cross-disciplinary collaboration to identify cost-effective and high-performance synergies. Post-design lifecycle analysis (A), material lead-time (C), and single-coordinator documentation (D) are not the credit's requirements.

QUESTION 8 SINGLE CHOICE

A project is pursuing the LEED v4 BD+C Surrounding Density and Diverse Uses credit. To qualify, the project must be located on a previously developed site OR a site that meets which condition?

- ☐ A Is located within 1/4 mile of a fire station
- ☒ B Is surrounded by a minimum density and has diverse uses within a 1/4-mile radius
- ☐ C Has a minimum frontage of 200 feet on a public arterial roadway
- ☐ D Is situated within a designated federal opportunity zone

ANSWER B

WHY The Surrounding Density and Diverse Uses credit rewards projects located on previously developed sites OR, if not, sites that have a minimum density of surrounding development and diverse uses within a 1/4-mile walking distance. The other options (fire station proximity, arterial frontage, opportunity zones) are not credit requirements.

QUESTION 9

MULTIPLE CHOICE

A project team is pursuing the LEED v4 BD+C Optimize Energy Performance credit. Which of the following are recognized approaches for demonstrating compliance with this credit? (Choose two.)

- ☒ **A** Simulating the proposed building using an energy model compared against a baseline building that meets ASHRAE 90.1-2010
- ☒ **B** Demonstrating prescriptive compliance with ASHRAE 90.1-2010 for all building systems without modeling
- ☐ **C** Simulating the proposed building using an energy model compared against a baseline building that meets ASHRAE 90.1-2007
- ☐ **D** Prerequisite compliance with the Energy Policy Act of 2005 as the sole evidence of energy efficiency

ANSWER A - B

WHY LEED v4 BD+C Optimize Energy Performance offers multiple compliance paths, including whole-building energy simulation against an ASHRAE 90.1-2010 baseline (option A) and a prescriptive path using ASHRAE 90.1-2010 (option B). Option C incorrectly cites the older 2007 baseline as the v4 reference, and option D describes the EAct prerequisite, which is not a path for this credit.