

01	☐ A	☐ B	☐ C	☐ D	☒ E
02	☒ A	☐ B	☐ C	☐ D	☐ E
03	☐ A	☐ B	☐ C	☐ D	☒ E
04	☒ A	☐ B	☐ C	☐ D	☐ E
05	☐ A	☐ B	☐ C	☐ D	☒ E
06	☐ A	☐ B	☒ C	☐ D	☐ E
07	☐ A	☒ B	☐ C	☐ D	☐ E
08	☐ A	☐ B	☐ C	☒ D	☐ E
09	☐ A	☐ B	☒ C	☐ D	☐ E
10	☐ A	☐ B	☐ C	☐ D	☒ E
11	☐ A	☒ B	☐ C	☐ D	☐ E
12	☐ A	☐ B	☐ C	☒ D	☐ E
13	☐ A	☐ B	☐ C	☐ D	☒ E

14	☐ A	☐ B	☒ C	☐ D	☐ E
15	☐ A	☐ B	☒ C	☐ D	☐ E
16	☐ A	☐ B	☒ C	☐ D	☐ E
17	☒ A	☐ B	☐ C	☐ D	☐ E
18	☐ A	☐ B	☐ C	☐ D	☒ E
19	☐ A	☐ B	☐ C	☒ D	☐ E
20	☐ A	☒ B	☐ C	☐ D	☐ E
21	☐ A	☐ B	☒ C	☐ D	☐ E
22	☐ A	☐ B	☐ C	☐ D	☒ E
23	☐ A	☐ B	☒ C	☐ D	☐ E
24	☐ A	☐ B	☐ C	☐ D	☒ E
25	☐ A	☒ B	☐ C	☐ D	☐ E
26	☒ A	☐ B	☐ C	☐ D	☐ E

27	☒ A	☐ B	☐ C	☐ D	☐ E
28	☒ A	☐ B	☐ C	☐ D	☐ E
29	☐ A	☒ B	☐ C	☐ D	☐ E
30	☒ A	☐ B	☐ C	☐ D	☐ E
31	☐ A	☐ B	☐ C	☐ D	☒ E
32	☐ A	☐ B	☐ C	☐ D	☒ E
33	☐ A	☐ B	☒ C	☐ D	☐ E
34	☐ A	☐ B	☐ C	☒ D	☐ E
35	☐ A	☐ B	☐ C	☐ D	☒ E
36	☐ A	☒ B	☐ C	☐ D	☐ E
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)

BDFRE

LEED AP Building Design & Construction Stand Alone

EDITION

Demo

QUESTIONS

9

FORMAT

Limited Edition PDF

Before you begin

What this is

9 practice questions for Green Business Certification Inc. (GBCI) **BDFRE**, 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, **BDFRE**
- the question number
- the email address on your order

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

QUESTION 1

SINGLE CHOICE

An Integrative Process approach during the design phase of a LEED project is primarily intended to achieve which outcome?

- ☐ A Reduced documentation effort during LEED certification submission
- ☒ B Early collaboration among project team members to identify synergies and cost-effective high-performance solutions
- ☐ C Elimination of all building energy modeling requirements
- ☐ D Compliance with only the mandatory LEED prerequisites

ANSWER B

WHY Integrative Process is a LEED credit category that rewards early, cross-disciplinary collaboration among the owner, design team, and major trades so that synergies (e.g., between envelope, HVAC, lighting, and site) are identified early. This produces higher-performing, more cost-effective solutions, not reduced documentation or fewer prerequisites.

QUESTION 2

SINGLE CHOICE

Under the LEED v4 Location and Transportation category, which strategy most directly reduces a project's dependence on single-occupancy vehicle trips?

- ☐ A Locating the project on a previously developed site with existing infrastructure
- ☐ B Installing a high-efficiency irrigation system
- ☒ C Providing bicycle storage facilities, showers, and changing rooms
- ☐ D Specifying low-VOC interior paints and coatings

ANSWER C

WHY Bicycle facilities (racks, showers, changing rooms) directly support alternative transportation and reduce reliance on single-occupancy vehicles. Option A relates to a separate 'Sensitive Land Protection' / 'Previously Developed Land' credit, option B relates to Water Efficiency, and option D relates to Indoor Environmental Quality.

QUESTION 3

SINGLE CHOICE

Which of the following design strategies most directly supports the LEED Sustainable Sites credit for reducing the heat island effect on a project site?

- ☒ **A** Using high-albedo roofing materials and vegetated roof areas
- ☐ **B** Installing low-flow plumbing fixtures throughout the building
- ☐ **C** Providing covered bicycle storage near the building entrance
- ☐ **D** Conducting a third-party commissioning of the building HVAC system

ANSWER A

WHY The Heat Island Reduction credit rewards strategies that minimize the temperature differential between developed and undeveloped areas, primarily through high-reflectance (high-albedo) roofing, vegetated roofs, and open-grid pavement or shading. Low-flow fixtures (B), bicycle storage (C), and commissioning (D) belong to other categories.

QUESTION 4

SINGLE CHOICE

Which metric is used as the baseline for the LEED v4 Indoor Water Use Reduction prerequisite for new buildings?

- ☐ **A** EPA 1992 fixture performance standards
- ☒ **B** Energy Policy Act (EPA) 2005 fixture performance
- ☐ **C** ANSI/ASHRAE Standard 90.1-2010 fixture flow rates
- ☐ **D** Uniform Plumbing Code 2012 fixture rates

ANSWER B

WHY The LEED v4 Indoor Water Use Reduction prerequisite baselines fixtures against Energy Policy Act (EPA) 2005 fixture performance levels, and projects must document percentage reductions against this baseline. Earlier versions of LEED referenced EPA 1992.

QUESTION 5

SINGLE CHOICE

A LEED BD+C project must comply with the Minimum Energy Performance prerequisite. Which building energy modeling standard is the typical referenced standard for establishing the baseline building in LEED v4?

- ☒ **A** ANSI/ASHRAE/IESNA Standard 90.1-2010 (with errata but no addenda)
- ☐ **B** ANSI/ASHRAE/IES Standard 90.1-2007
- ☐ **C** IECC 2012 without any modifications
- ☐ **D** ANSI/ASHRAE Standard 62.1-2010

ANSWER A

WHY The LEED v4 Minimum Energy Performance prerequisite references ANSI/ASHRAE/IESNA Standard 90.1-2010 (with errata but no addenda) as the baseline standard for energy modeling. Standard 62.1 is a ventilation standard, not an energy standard, and the other options are not the cited LEED v4 baseline.

QUESTION 6

SINGLE CHOICE

Under the LEED v4 Building Product Disclosure and Optimization credit for Material Ingredients, a product is considered acceptable when the manufacturer has demonstrated which action?

- ☐ **A** Use of any post-consumer recycled content greater than 0%
- ☒ **B** Publication of a Health Product Declaration (HPD), Cradle to Cradle certification, or comparable chemical inventory disclosure
- ☐ **C** Manufacture within 500 miles of the project site
- ☐ **D** Certification under a single-attribute environmental label such as Energy Star

ANSWER B

WHY The LEED v4 Material Ingredients credit rewards products for which the manufacturer has disclosed chemical ingredients through accepted programs such as a Health Product Declaration (HPD), Cradle to Cradle certification, Declare, or comparable chemical inventory disclosure. Recycled content, regional manufacture, and Energy Star are addressed by other credits within Materials and Resources.

QUESTION 7

SINGLE CHOICE

Which strategy directly supports compliance with the LEED v4 Indoor Environmental Quality credit for Low-Emitting Materials?

- ☐ A Installing operable windows on at least two sides of the building
- ☒ B Selecting adhesives and sealants that meet the VOC content limits of SCAQMD Rule #1168
- ☐ C Providing thermal comfort controls for at least 50% of individual occupant spaces
- ☐ D Using daylight-responsive automatic lighting controls in regularly occupied spaces

ANSWER B

WHY The Low-Emitting Materials credit in LEED v4 requires that adhesives, sealants, paints, coatings, flooring systems, and composite wood products comply with specific VOC limits—adhesives and sealants are referenced to SCAQMD Rule #1168. Operable windows, thermal comfort, and daylighting controls are addressed under different IEQ credits.

QUESTION 8

SINGLE CHOICE

Which of the following is a requirement for earning an LEED Pilot Credit under the Innovation in Design category?

- ☐ A The credit must be a credit available in LEED v4 for all building types
- ☒ B The credit must be part of the LEED Pilot Library published by USGBC/GBCI and must be formally documented
- ☐ C The credit must replace a prerequisite in order to be counted
- ☐ D The credit must be selected from the Regional Priority list

ANSWER B

WHY LEED Pilot Credits must be selected from the LEED Pilot Library maintained by USGBC/GBCI and must be formally documented and submitted according to the pilot credit requirements to be eligible for points in the Innovation category. They are not core LEED v4 credits and do not replace prerequisites or come from Regional Priority.

QUESTION 9

MULTIPLE CHOICE

Which of the following activities are required components of the LEED v4 Integrative Process credit? (Choose two.)

- ☒ **A** Conducting a preliminary rating-system review with the project team prior to schematic design
- ☐ **B** Performing a life-cycle cost analysis of the building envelope at least 10 years post-occupancy
- ☒ **C** Identifying and using the synergies between the LEED credit categories and the owner project requirements
- ☐ **D** Commissioning all energy-related systems in accordance with the Energy and Atmosphere prerequisite
- ☐ **E** Performing a water-use analysis of all plumbing fixtures before construction documents are issued

ANSWER A - C

WHY The LEED v4 Integrative Process credit requires two specific actions: (1) a preliminary rating-system review conducted by the project team before schematic design completion, and (2) a facilitated integrative design workshop that identifies synergies among LEED categories and the owner project requirements (OPR). Options B, D, and E describe activities associated with other credits (life-cycle cost analysis relates to Materials and Resources, commissioning is an Energy and Atmosphere prerequisite, and detailed plumbing-fixture analysis relates to Water Efficiency).