

## LEED v4 Building Design and Construction

### Quiz #1

#### INTRO

1. Which of these types of incentives is the most effective and among the more popular strategies to encourage green building? [Choose two]
  - A. Material
  - B. Financial
  - C. Tangible
  - D. Structural
  - E. Experience
2. Which of these is an example of a type of structural incentive that could be used to encourage green building? [Choose two]
  - A. Tax Credits
  - B. Fee Reduction/Waiver
  - C. Expedited Review/Permitting Processes
  - D. Density and Height Bonuses
  - E. Grants
  - F. Revolving Loan Funds
3. The LEED Green Building Rating System serves as a guideline and assessment mechanism for which of these areas of high-performance green buildings and neighborhoods? [Choose three]
  - A. Design
  - B. Construction
  - C. Demolition
  - D. Operation and Maintenance
4. The Green Building Certification Institute (GBCI) oversees which of these areas of LEED? [Choose three]
  - A. Rating System Development
  - B. Building Certification
  - C. Credentials
  - D. Credential Maintenance Program
  - E. USGBC Local Chapters
5. Which of these entities approves changes to LEED?
  - A. USGBC Board of Directors
  - B. LEED Steering Committee (LSC)
  - C. USGBC Membership
  - D. USGBC Staff
6. What must substantive revisions to LEED go through? [Choose two]
  - A. Pilot testing
  - B. Public comment
  - C. USGBC member ballot
  - D. USGBC Board of Director approval
7. What is the purpose of the LEED Pilot Credit Library? [Choose three]
  - A. Test existing and revised LEED credit and prerequisite language
  - B. Test new and revised LEED credit and prerequisite language
  - C. Test new and revised alternative compliance paths to existing credits
  - D. Test new and innovative green building technologies and concepts

8. Which of these is used for the implementation and maintenance of the current LEED version? [Choose two]
- A. Addenda
  - B. Updates
  - C. Credit Library
  - D. Pilot Credit Library
9. Which of these building types is the LEED rating system designed to rate? [Choose four]
- A. Movable Prefabricated Structures
  - B. Parking Structures
  - C. Commercial
  - D. Institutional
  - E. Residential
  - F. Neighborhood Development
10. Which of these is a goal of the Minimum Program Requirements (MPRs)? [Choose three]
- A. Give clear guidance to customers
  - B. Guarantee Project Certification
  - C. Protect the integrity of the LEED program
  - D. Reduce complications that occur during the LEED certification process
11. Which of these may happen if a project is found to be in noncompliance of any MPR after the project has been certified?
- A. Owner is fined \$1000
  - B. The project's LEED Certification is reduced to the lowest level of Certified
  - C. The project's LEED Certification is revoked
  - D. The project must return the LEED plaque
12. Which of these is a bonus credit category for LEED for BD+C: Core and Shell? [Choose two]
- A. Integrative Process (IP)
  - B. Awareness and Education (AE)
  - C. Innovation (IN)
  - D. Smart Location and Linkages (LL)
  - E. Regional Priority (RP)
13. A LEED for BD+C: Healthcare project is currently under construction and the project team has attempted 58 main credit points and 2 bonus points. How many additional points would they need to earn to achieve LEED Gold project certification?
- A. 0
  - B. 1
  - C. 2
  - D. 4
14. What are the principle types of requirements that all LEED standards contain? [Choose four]
- A. Prerequisites
  - B. Core Credits
  - C. Innovation Credits
  - D. Regional Priority Credits
  - E. Minimum Program Requirements (MPRs)

15. What must every project team complete in order to LEED certify the project? [Choose three]
- A. Satisfy all prerequisites for the rating system being used
  - B. Earn the minimum number of points for the desired level of certification for the rating system being used
  - C. Earn at least 40 points for the rating system being used
  - D. Satisfy the MPRs
16. Which of these is used to allocate points for a LEED credit? [Choose two]
- A. Direct human benefit
  - B. Direct environmental benefit
  - C. Global warming
  - D. Indoor Environmental Quality
  - E. Air and Water Pollutants
17. What is the allocation of points among LEED credits called?
- A. Credit Allocating
  - B. Credit Impact
  - C. Credit Weighting
  - D. Credit Priority
18. What tools does the USGBC develop and maintain to support the LEED rating system? [Choose three]
- A. Reference Guides
  - B. Project Checklists
  - C. Project Scorecards
  - D. LEED Online
  - E. Workshops & Education
19. What tool is the primary resource for managing the LEED documentation process?
- A. LEED Reference Guide
  - B. LEED Project Scorecard
  - C. LEED Project Checklist
  - D. LEED Project Portfolio
  - E. LEED Online
20. What can project teams do using the tool LEED Online? [Choose five]
- A. Earn Credential Maintenance Program (CMP) credit hours
  - B. Manage project details
  - C. Complete documentation requirements for LEED credits and prerequisites
  - D. Upload supporting files
  - E. Submit applications for review
  - F. Receive reviewer feedback
21. What is the purpose of the LEED Steering Committee (LSC)? [Choose two]
- A. Approve changes to the LEED rating system
  - B. Develop new LEED credits and prerequisites
  - C. Modify existing LEED alternative compliance paths
  - D. Ensure the use of the consensus process to evolve LEED
  - E. Preserve the integrity of the LEED rating system

22. Which of these requires balloting approval?
- A. LEED Addenda
  - B. LEED Addenda requiring a substantive changes
  - C. LEED Addenda requiring non-substantive changes
  - D. LEED Updates
23. Which of these can a LEED project team adhere to?
- A. LEED projects are required to use current addenda available at time of registration.
  - B. LEED projects are required to use current addenda available at time of application for certification.
  - C. LEED projects are not required to use current addenda.
  - D. LEED projects are required to use current addenda available at schematic design.
24. Which of these is an example of a type of financial incentive that could be used to encourage green building? [Choose four]
- A. Marketing Assistance
  - B. Revolving Loan Funds
  - C. Tax Credits
  - D. Technical Assistance
  - E. Permitting Fee Reduction/Waiver
  - F. Grants
25. What is the purpose of LEED interpretations?
- A. Fix unintentional inaccuracies, errors and/or omissions in content
  - B. Define or expand upon existing content to provide clarity where a misunderstanding of language has occurred
  - C. Provide additional options to content that address unique project needs and advancements in science and technology
  - D. Modify existing credit or prerequisite language
26. What percentage of all carbon dioxide emissions do buildings account for in the U.S.?
- A. 2%
  - B. 12%
  - C. 28%
  - D. 35%
  - E. 38%
27. LEED rating systems are designed for what categories of buildings? [Choose four]
- A. Commercial
  - B. Modular
  - C. Institutional
  - D. Prefabricated
  - E. Residential
  - F. Neighborhood developments
28. Who reviews improvements and changes to LEED before being submitted to a vote? [Choose two]
- A. USGBC Members
  - B. LEED Steering Committee
  - C. USGBC Board of Directors
  - D. USGBC Member-based volunteer committees

29. Which of these is the basis for determining the weighting of the points for LEED credits?
- A. LEED Certification Level
  - B. LEED Goals
  - C. LEED Project Size
  - D. LEED Steering Committee
30. LEED prerequisites and credits have been created to address which of these issues? [Choose two]
- A. Climate Change
  - B. Isolated Design and construction
  - C. Development in Urban Areas
  - D. Social equity
  - E. Owner's bottom line
31. Which of these initiates the LEED certification process? [Choose two]
- A. Design charrette
  - B. Construction Documents
  - C. Register the project
  - D. Select the LEED rating system
32. After the LEED project has been submitted for certification what reviews does it go through? [Choose two]
- A. Initial
  - B. Final
  - C. Preliminary
  - D. Design
33. What is the team provided during the final review?
- A. A LEED plaque
  - B. Technical advice on credits that require additional work for achievement
  - C. The project's final score and certification level
  - D. Suggestions for additional credits to pursue
34. What can a project team do if a prerequisite or credit is not achieved? [Choose two]
- A. File a complaint with Consumer affairs
  - B. Appeal
  - C. Accept the decision
  - D. Pay additional fees for the prerequisite or credit to be approved
35. How many levels of LEED accreditation are there?
- A. None
  - B. One
  - C. Two
  - D. Three
  - E. Four
36. Which of these must be included in the credit structure for all LEED prerequisites and credits? [Choose two]
- A. Referenced Standards
  - B. Exemplary Performance
  - C. Intent
  - D. Requirements
  - E. Related Credit Tips

37. Which of these describes the LEED Campus Project approach to certification?
- A. Campus refers to the Campus Program for Projects on a Military Base or University campus.
  - B. Campus refers to the Campus Program for Commercial Mixed Use projects.
  - C. Campus refers to the Campus Program for Projects on multiple Sites, which certifies multiple buildings under the control of a single entity.
  - D. Campus refers to the Campus Program for Projects on a Shared Site, which certifies multiple buildings located on one site and under the control of a single entity.
38. What are the approaches for certifying multiple builds under the Campus program? [Choose two]
- A. Group
  - B. Campus
  - C. Shared
  - D. Single
39. The process of engaging all project team members in discovering beneficial interrelationships and synergies between systems and components is known as?
- A. Collaborative Design
  - B. Integrative Design
  - C. Conventional Design
  - D. Conceptual Design
  - E. Co-located Design
  - F. Isolated Design
40. At what time in the design and construction process should the coordination of building and site systems be addressed before?
- A. Conceptual
  - B. Schematic
  - C. Pre-schematic
  - D. Construction
41. What are the phases of an integrative process? [Choose three]
- A. Discovery
  - B. System Design and Analysis
  - C. Schematic design
  - D. Design and Construction (implementation)
  - E. Occupancy, operations, and performance feedback
  - F. Predesign
42. Which of these should be included in the LEED Work Plan? [Choose two]
- A. Costs
  - B. Goals
  - C. Scorecard
  - D. LEED AP
43. At what time should buildings and spaces that earn LEED certification be completed?
- A. Substance Completion
  - B. Punch list
  - C. Final application
  - D. Preliminary application

44. A LEED project is earning LEED BD+C: New Construction and Major Renovations. What percentage of the certifying gross floor areas may consist of incomplete space?
- A. 0%
  - B. 10%
  - C. 25%
  - D. 40%
45. A new LEED commercial office building is designed to be 20,000 square feet and is on a site with 15,000 square feet of buildable nonresidential land area which includes 5,000 square feet of structured parking. What is the Floor-Area-Ratio (FAR)?
- A. 0.5
  - B. 1.0
  - C. 1.3
  - D. 2.0
46. A LEED BD+C: Retail project will have 15 full-time employees, 10 staff members, and 5 part-time employees that each work 4 hours daily. On average there will be 150 customers each day. What is the total of regular building occupants for the project?
- A. 18
  - B. 25
  - C. 28
  - D. 178
  - E. 180
47. In LEED calculations, occupant types are typically counted in what ways? [Choose two]
- A. Daily average
  - B. Monthly average
  - C. Peak totals at noon
  - D. Peak totals in a typical 24-hour period
48. The gross floor area of the LEED project should be no less than what percentage of the gross land area within the LEED project boundary?
- A. 1%
  - B. 2%
  - C. 5%
  - D. 10%
49. A LEED BD+C project must include a minimum of how many square feet of gross floor area?
- A. 100 sf
  - B. 250 sf
  - C. 1,000 sf
  - D. 1,500 sf
50. A university campus is designing a new building that will include classrooms, offices, and laboratories. The project team has determined that 30% of the project spaces would meet LEED ID+C: Commercial Interiors and 70% meets LEED BD+C: New Construction. They also determined that 80% of the building spaces would meet LEED BD+C: Schools. Which rating system should the team use?
- A. LEED ID+C: Commercial Interiors
  - B. LEED BD+C: New Construction and LEED ID+C: Commercial Interiors
  - C. LEED BD+C: New Construction
  - D. LEED BD+C: Schools
  - E. LEED BD+C: New Construction or LEED BD+C: Schools