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Continuing Education Course #022
Green Design 2010
Myths and Perceptions

1. According to the Department of Energy, Buildings represent _____ percent of the U.S. primary energy use.
 - a. 25
 - b. 39
 - c. 45
 - d. 5

2. LEED stands for:
 - a. Leadership in Emergency Energy Design
 - b. Leadership in Energy and Environmental Design
 - c. Leadership in Energy and Electrical Design
 - d. Leadership in Energy and Environmental Domains

3. Which LEED certification is not part of USGBC's programs?
 - a. LEED NC
 - b. LEED for Schools
 - c. LEED CS
 - d. LEED CIN-HOME

4. What is a LEED Credit?
 - a. Most economical use of materials in a design
 - b. Effective and intelligent use of materials to maximize environmental, economic and performance benefits
 - c. Effective and economical use of virgin materials to allow the best transportation methods for materials
 - d. None of the above

5. Benefits of vegetated roofs include
 - a. Reduction of storm runoff and reduction of cooling or heating demands
 - b. Increase of pollen in the building area and reduction of carbon dioxide
 - c. Use of low sloped roofs incorporating multi-layer roofing systems
 - d. Break areas for smokers and increased live loads in the building design

6. What are some of the LEED Certification provided by USGBC?
 - a. Platinum or Silver
 - b. Yellow and Gold
 - c. Green and Orange
 - d. None of the above

7. Are the Prerequisites required prior to submitting a Credit?
 - a. Yes, generally they are all required
 - b. No, Credits and Prerequisites are two separate processes

- c. Credits are not part of the certification
 - d. Only 25% of the Prerequisites need to be approved
8. If USGBC does not approve a project during the Design stage, the Project cannot be resubmitted?
- a. True
 - b. False
9. What is the scope of the EAp1 Section?
- a. Providing Enhanced Refrigeration Management
 - b. Listing all Green Power available in the project
 - c. Assure that the related energy systems are installed, calibrated and will perform according to the design
 - d. Provide complete costs and budget reconciliation to assure the implementation of Green systems do not exceed 56% of the energy budget
10. The purpose of the EA Prerequisites is to
- a. Assure reduction in energy use, improve productivity and verify performance
 - b. Assure enough forestation is provided when a project design is developing a virgin site
 - c. Assure that the Credits are completely defined for the Commissioning Authority (CxA) approval
 - d. Assure all 17 possible points listed under the EA section are approved
11. Which parties are involved in the Commissioning process?
- a. Owner, users, and occupants
 - b. Building zoning board, users, and owner
 - c. Fire Marshall, local zoning board and occupants
 - d. None of the above
12. When is the commissioning plan prepared?
- a. When final plans approval is scheduled
 - b. At 80% completion of the design documents
 - c. At the start of the commissioning process, preferably during the development of the design
 - d. After preparing the final punch lists and certificate of occupancy are issued
13. Which two documents are required as part of EAp1?
- a. The Owner's Project Requirement and the Basis of Design
 - b. The Owner's Project Plans and the Mechanical Drawings
 - c. The Client's Submittal Documentation and the Electrical Drawings
 - d. None of the above
14. What is included in the BOD?
- a. Major structural components and analysis of live and dead loads
 - b. Indoor environmental quality criteria and system descriptions
 - c. HVAC&R requirements and air flow analysis
 - d. The Building Organizational Design Documents, arranged in a binder by topic category
15. Which systems are included under EAp1?
- a. Domestic HVAC systems
 - b. Renewable HVAC&R sources
 - c. Power calculations
 - d. Light and daylight control
16. For projects smaller than 50,000 square feet the CxA

- a. Shall be independent of the project's design and construction teams
 - b. Shall be approved by the California Commissioning Collaborative
 - c. Should have completed 15 hours of training provided by bexa.org
 - d. May be a qualified staff member of the owner
17. The BOD, at a minimum, shall include:
- a. Primary design assumptions, standards, and narrative descriptions
 - b. Detailed CxA requirements, initial design parameters and owners feedback
 - c. A detailed list of functional requirements and the expectations of the building's use
 - d. A complete listing of the design and construction documents
18. The Commissioning Program Overview include
- a. Goals and objectives, general project information, and systems to be commissioned
 - b. A complete list of team members, roles, and responsibilities
 - c. Basis of Design and CxA deficiency report
 - d. None of the above
19. The Commissioning Team is involved with the
- a. Goals and objectives, general project information, and systems to be commissioned
 - b. A complete list of team members, roles, and deliverables
 - c. Basis of Design and CxA deficiency report
 - d. Communications protocol, coordination, meetings and management
20. What is the purpose of Commissioning?
- a. Verification of the installation and performance of commissioned systems
 - b. Assurance of full compliance of BOD and OPCR Documents
 - c. 100% compliance with functional performance of mechanical and electrical systems
 - d. Complete overhaul of CFC related systems
21. The Materials and Resources Credits describe:
- a. The brands and manufacturers of all materials specified in the project
 - b. A listing of materials following CSIs Master Format Division
 - c. Materials used in the construction process, and how well we plan to manage and dispose of the waste generated by building occupants
 - d. Only the debris removed as part of construction
22. Why is it important to provide an appropriate Indoor Air Quality program?
- a. We spend 80 to 90% of the time indoors
 - b. Doors and windows that are not air tight allow contaminants to enter the building
 - c. The air pressure coefficient of the building needs to be kept positive to prevent contaminants
 - d. None of the above
23. _____describes procedures for avoiding the introduction of contaminants
- a. ASHRAE Standard 52.2- 2008
 - b. ASHRAE Standard 62.1-2007
 - c. ASHRAE Standard 2008-B
 - d. AASHTO Standard 2997-14.6
24. To attain Credit EQc4.3
- a. All carpet installed in the building interior shall meet the testing and product requirements of the Carpet and Rug Institute's Green Label Plus Programs.

- b. All carpet installed in the building shall have low fiber nylon components and non-toxic glue
- c. All carpet installed in the building needs to have been manufactured in the last 4 years, older carpeting will not be allowed
- d. All carpet installed has to have been manufactured in environmentally controlled plants, with complete ASHRAE compliance

25. What is required as part of Credit IDC2?

- a. Credit IDC2 is granted when the Commissioning Administrator has received a BCOD license and has been a member in good standing of USGBC for the last three years
- b. Credit IDC2 is granted when the Architect of Record holds also a CxA and LEED certification
- c. Credit IDC2 is granted when at least one principal participant of the project team is a LEED Accredited Professional (LEED AP). A LEED AP is a professional that has successfully completed the LEED examination and provided suitable credentialing to attain such certification.
- d. Complete approval from a Professional Engineer and a Registered Architect

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