

LEED v4 Building Design and Construction

Quiz #2

IP

1. SS Prerequisite Integrative Project Planning and Design applies to which type of project?
  - A. Hospitality
  - B. Homes
  - C. Schools
  - D. Healthcare
  
2. Which of these must be incorporated into the SS Prerequisite Integrative Project Planning and Design Health Mission Statement?
  - A. Basis of Design (BOD)
  - B. Owner's Project Requirements (OPR)
  - C. Triple Bottom Line (TBL)
  - D. Life Cycle Assessment (LCA)
  
3. Which of these best describes the triple bottom line concept of sustainability?
  - A. People, Planet, Prosperity
  - B. Carbon Neutrality, Location, Wealth
  - C. People, Planet, Profit
  - D. Energy, Environment, Economy
  
4. Which of these should the project team include in the Integrative Project Planning and Design process? [Choose four]
  - A. Owner's Project Requirements (OPR) Document
  - B. Basis of Design (BOD) Document
  - C. Preliminary Rating Goals
  - D. Integrated Project Team
  - E. Design Charrette
  
5. For SS Prerequisite Integrative Project Planning and Design what is the minimum number of professionals that need to be on the integrated project team?
  - A. Four, in addition to the owner
  - B. Four, in addition to the owner or owner's representative
  - C. Three, in addition to the architect, builder, and owner
  - D. Three, in addition to the architect, builder, and owner or owner's representative
  
6. Which of these is an important element to a comprehensive, integrative process? [Choose two]
  - A. Performance feedback
  - B. Analysis of System Costs
  - C. Building Orientation and Location
  - D. Iterative Cycle of Analysis
  
7. At what phase should the project team begin the Integrative Project Planning and Design process?
  - A. Schematic Design
  - B. Construction
  - C. Occupancy
  - D. Programming and Predesign
  - E. Design

8. Which of these is an outcome of the initial Integrative Design Charrette? [Choose two]
- A. Cost of green strategies targeted
  - B. LEED Certification level to achieve
  - C. Completed health mission statement
  - D. LEED credits to be targeted
  - E. Renewable energy systems to be included in the design
9. SS Credit Integrative Process requires projects to analyze which of these systems? [Choose two]
- A. HVAC and Associated Controls
  - B. Lighting and Lighting Controls
  - C. Energy-Related
  - D. Building Envelope
  - E. Landscape Irrigation
  - F. Water-Related
10. Which of these must be performed as a requirement of SS Credit Integrative Process? [Choose two]
- A. Whole Building Energy Simulation
  - B. Simple box energy model
  - C. Preliminary water budget analysis
  - D. Baseline flush and flow fixture analysis
  - E. Process water demand analysis
11. Which of these is a process water source? [Choose three]
- A. Water closet
  - B. Urinal
  - C. Lavatory
  - D. Laundry
  - E. Cooling tower
  - F. Food steamer
12. Identify the phases of the integrative process. [Choose three]
- A. Predesign
  - B. Discovery
  - C. Design and Construction
  - D. Schematic
  - E. Occupancy, operations, and performance feedback
  - F. Operations and maintenance
13. Which of these is a strategy for offsetting potable water use for a building's indoor flush and flow water demand? [Choose two]
- A. Captured rainwater
  - B. Condensate from HVAC cooling equipment
  - C. Well water
  - D. Vegetated roof
14. Which of these design decisions can have a significant effect on reducing a building's energy demand? [Choose three]
- A. Insulation
  - B. Building Orientation
  - C. Window performance levels
  - D. Interior wall color
  - E. CO<sub>2</sub> Sensors

15. What is another name for simple box energy modeling analysis?
- A. Building-massing model energy analysis
  - B. Whole Building Energy Simulation
  - C. Performance Rating Method
  - D. Cost Budget analysis
16. Which of these energy end uses contributes the most to the annual energy consumption of a commercial building?
- A. Domestic Hot Water
  - B. Vent Fans
  - C. Lights
  - D. Space Heating and cooling
17. What factors does the typical energy consumption by end use for a project depend on? [Choose three]
- A. Building type
  - B. Utility rates
  - C. Occupancy
  - D. Climate
18. If a project team uses an integrative process to design building systems and select equipment what benefit might they achieve?
- A. Increased building performance
  - B. Reduced construction schedule
  - C. Elimination of all change orders during construction
  - D. Increased owner satisfaction
19. Which of these is critical for determining success in achieving performance targets, informing building operations, and taking corrective action when targets are missed?
- A. Metering
  - B. Surveys
  - C. Feedback
  - D. Integrative process
20. Projects earning SS Credit Integrative Process must assess potential strategies associated with which of these energy related systems? [Choose three]
- A. Solar Heat Gain Coefficient
  - B. U-Values
  - C. Lighting Levels
  - D. Site Conditions
  - E. Massing and orientation