LEED v4 Building Design and Construction

**ANSWERS**

Quiz #2

IP

1. SS Prerequisite Integrative Project Planning and Design applies to which type of project?
2. Hospitality
3. Homes
4. Schools
5. Healthcare
6. Which of these must be incorporated into the SS Prerequisite Integrative Project Planning and Design Health Mission Statement?
7. Basis of Design (BOD)
8. Owner’s Project Requirements (OPR)
9. Triple Bottom Line (TBL)
10. Life Cycle Assessment (LCA)
11. Which of these best describes the triple bottom line concept of sustainability?
12. People, Planet, Prosperity
13. Carbon Neutrality, Location, Wealth
14. People, Planet, Profit
15. Energy, Environment, Economy
16. Which of these should the project team include in the Integrative Project Planning and Design process? [Choose four]
17. Owner’s Project Requirements (OPR) Document
18. Basis of Design (BOD) Document
19. Preliminary Rating Goals
20. Integrated Project Team
21. Design Charrette
22. For SS Prerequisite Integrative Project Planning and Design what is the minimum number of professionals that need to be on the integrated project team?
23. Four, in addition to the owner
24. Four, in addition to the owner or owner’s representative
25. Three, in addition to the architect, builder, and owner
26. Three, in addition to the architect, builder, and owner or owner’s representative
27. Which of these is an important element to a comprehensive, integrative process? [Choose two]
28. Performance feedback
29. Analysis of System Costs
30. Building Orientation and Location
31. Iterative Cycle of Analysis
32. At what phase should the project team begin the Integrative Project Planning and Design process?
33. Schematic Design
34. Construction
35. Occupancy
36. Programming and Predesign
37. Design
38. Which of these is an outcome of the initial Integrative Design Charrette? [Choose two]
39. Cost of green strategies targeted
40. LEED Certification level to achieve
41. Completed health mission statement
42. LEED credits to be targeted
43. Renewable energy systems to be included in the design
44. SS Credit Integrative Process requires projects to analyze which of these systems? [Choose two]
45. HVAC and Associated Controls
46. Lighting and Lighting Controls
47. Energy-Related
48. Building Envelope
49. Landscape Irrigation
50. Water-Related
51. Which of these must be performed as a requirement of SS Credit Integrative Process? [Choose two]
52. Whole Building Energy Simulation
53. Simple box energy model
54. Preliminary water budget analysis
55. Baseline flush and flow fixture analysis
56. Process water demand analysis
57. Which of these is a process water source? [Choose three]
58. Water closet
59. Urinal
60. Lavatory
61. Laundry
62. Cooling tower
63. Food steamer
64. Identify the phases of the integrative process. [Choose three]
65. Predesign
66. Discovery
67. Design and Construction
68. Schematic
69. Occupancy, operations, and performance feedback
70. Operations and maintenance
71. Which of these is a strategy for offsetting potable water use for a building’s indoor flush and flow water demand? [Choose two]
72. Captured rainwater
73. Condensate from HVAC cooling equipment
74. Well water
75. Vegetated roof
76. Which of these design decisions can have a significant effect on reducing a building’s energy demand? [Choose three]
77. Insulation
78. Building Orientation
79. Window performance levels
80. Interior wall color
81. CO2 Sensors
82. What is another name for simple box energy modeling analysis?
83. Building-massing model energy analysis
84. Whole Building Energy Simulation
85. Performance Rating Method
86. Cost Budget analysis
87. Which of these energy end uses contributes the most to the annual energy consumption of a commercial building?
88. Domestic Hot Water
89. Vent Fans
90. Lights
91. Space Heating and cooling
92. What factors does the typical energy consumption by end use for a project depend on? [Choose three]
93. Building type
94. Utility rates
95. Occupancy
96. Climate
97. If a project team uses an integrative process to design building systems and select equipment what benefit might they achieve?
98. Increased building performance
99. Reduced construction schedule
100. Elimination of all change orders during construction
101. Increased owner satisfaction
102. Which of these is critical for determining success in achieving performance targets, informing building operations, and taking corrective action when targets are missed?
103. Metering
104. Surveys
105. Feedback
106. Integrative process
107. Projects earning SS Credit Integrative Process must access potential strategies associated with which of these energy related systems? [Choose three]
108. Solar Heat Gain Coefficient
109. U-Values
110. Lighting Levels
111. Site Conditions
112. Massing and orientation