Quiz #10 - LEED Green Associate

**ANSWERS**

GA02 – Pgs. 507-508 & 599-602

GA09 – Pgs. 107-139

GBLCC Section 4: Green Building Core Concepts and Application Strategies: Indoor Environmental Quality

1. The Indoor Environmental Quality (EQ) credit categories addresses which of these conditions inside a building?
2. Energy use, lighting, plug loads, HVAC efficiency
3. Building orientation, night venting, operable windows, environmental tobacco smoke
4. Air quality, lighting, acoustics, occupant experience
5. Lighting, acoustics, operable windows, HVAC efficiency
6. Building materials such as paints, adhesives, flooring, composite wood, insulation, wall materials, and furniture may emit which of these indoor air quality concerns?
7. Mold
8. VOCs
9. Methane
10. Radon
11. Which of these describes the rating used by LEED for Air Handling Unit (AHU) filters?
12. The higher the MERV rating the fewer the particulates captured by the filter.
13. The lower the MERV rating the greater the particulates captured by the filter.
14. The higher the MERV rating the greater the particulates captured by the filter.
15. A MERV of 8 is better than a MERV of 13 for capturing more particles in the air
16. Which of these strategies is the best way to prevent indoor pollutants?
17. Eliminate or control them at the sources
18. Install proper ventilation to remove any pollutants that enter
19. Reduce the use of adhesives and paints
20. Store cleaning products in a separate cabinet
21. What standard does LEED encourage projects to use to protect the indoor air quality during construction?
22. ASHRAE
23. Green Seal
24. SMACNA
25. IESNA
26. What standard is used by LEED to ensure that an adequate ventilation system is selected by the design team that will supply ample outside air to the occupants?
27. ASHRAE 90
28. ASHRAE 55
29. ASHRAE 52
30. ASHRAE 62
31. Which of these strategies would help in improving the indoor air quality during construction?
32. Keep employee break areas located outside the building
33. Keep the building clean during construction
34. Keep smoking to within 25 feet of the building
35. Keep the permanent air handling units running constantly
36. Which of these areas is considered a densely occupied space?
37. 15 people or more per 1000 square feet
38. 20 people or more per 1000 square feet
39. 25 people or more per 1000 square feet
40. 50 people or more per 1000 square feet
41. What is considered the breathing area inside a building?
42. 3 feet to 6 feet
43. 3 feet to 8 feet
44. 4 feet to 8 feet
45. 4 feet to 6 feet
46. Which of these are important aspects of the indoor experience?
47. Furniture and partitions
48. Wall colors and diffusers
49. Task lights and thermostats
50. Lighting levels and views to the outdoors
51. What are the units used to measure the incident luminous flux density on a differential element of surface located at a point and oriented in a particular direction?
52. Watts per square foot
53. Lumens per unit area
54. Spatial Daylight Autonomy (sDA)
55. Annual Sunlight Exposure (ASE)
56. What standard is used to define view factor?
57. ASHRAE
58. SMACNA
59. GreenScore
60. Heshong Mahone Group, Windows and Offices: A Study of Office Worker Performance and the Indoor Environment
61. Which of these strategies could be used to assess the satisfaction of the building occupants with the indoor environmental quality?
62. Wait for someone to complain
63. Conduct occupant surveys
64. Set all temperature controls to a constant value
65. If 20 people are satisfied, don’t worry about it
66. For EQ Credit: Acoustic Performance which of these should be evaluated by the design team to see if sound reinforcement is needed?
67. Large conference rooms and auditoriums seating more than 50 persons
68. Lunch and break rooms seating more than 100 persons
69. Playgrounds
70. Large conference rooms and auditoriums seating more than 25 persons
71. What unit is used to measure HVAC background noise?
72. LUX
73. dBA
74. STC
75. Hz
76. What are the two options projects can use to earn EQ Credit: Indoor Air Quality Assessment?
77. Bake-Out or Surveys
78. Flush-Out or Surveys
79. Bake-Out or Air Testing
80. Flush-Out or Air Testing
81. What should a Healthcare project due if a material being stored on-site and installed is damaged by moisture?
82. Immediately burn the damaged material and replace with new, undamaged materials
83. Immediately report the incident to the moisture control officer and fine the contractor responsible
84. Immediately remove from site and properly dispose of any materials susceptible to microbial growth and replace with new, undamaged materials
85. Spray the product with mold kill and let it dry before installing it to avoid buying new material and increasing the project’s cost
86. What is the intent of EQ Credit: Low Emitting Materials?
87. To eliminate entirely the use of products that contain harmful VOCs.
88. To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.
89. To reduce the amount of environmental tobacco smoke from entering the building.
90. To provide high-quality indoor environments for building occupants and increase worker productivity
91. What is the LEED standard for minimum indoor air quality?
92. ASHRAE 90
93. ASHRAE 55
94. ASHRAE 62
95. SMACNA
96. What factors of thermal human comfort can a LEED design team provide individuals control of inside a building?
97. Air temperature and humidity
98. Metabolism and clothing
99. Daylight and views
100. Acoustics and temperature