

Learning to LEED: Day 2
Referenced Standards Quiz

1. Complete the following: ASHRAE _____: Energy Standard for Buildings Except Low-Rise Residential.

2. To which of the following four prerequisites and/or credits does the previous standard apply? (Choose 4.)
 - a. EAc5, Measurement & Verification
 - b. EAc6, Green Power
 - c. EAc2, On-Site Renewable Energy
 - d. EAp2, Minimum Energy Performance
 - e. EQc8, Daylight & Views
 - f. SSc8, Light Pollution Reduction
 - g. EQc6, Controllability of Systems
 - h. EAc1, Optimize Energy Performance

3. Which of the following standards does not apply to SSc1, Site Selection? (Choose 1.)
 - a. U.S. EPA Definition of Wetlands
 - b. U.S. Fish & Wildlife Service Endangered Species List
 - c. FEMA 100-Year Flood Definition
 - d. Clean Water Act for Water Bodies
 - e. U.S. Department of Agriculture Prime Farmland Definition

4. Complete the following:
_____: Ventilation for Acceptable Indoor Air Quality
_____: Thermal Comfort Conditions for Human Occupancy

5. Which of the following two standards are referenced by the Materials & Resources section of LEED-NC v. 2.2? (Choose 2.)
 - a. Carpet and Rug Institute Green Label Plus Testing Program
 - b. ISO 14021-1999 – Environmental Labels & Declarations
 - c. Forest Stewardship Council’s Principles & Criteria
 - d. Center for Resource Solutions’ Green-e Product Certification Requirements

6. List the 3 standards referenced in the alternate options for EAc1:
 - a. Option 1: _____
 - b. Option 2: _____
 - c. Option 3: _____

7. Which of the following standards applies to the four points offered in EQc4, Low Emitting Materials? (Choose 5.)
- Green Seal GS-11, Commercial Flat & Non-Flat Paints
 - CIBSE Applications Manual 10: 2005
 - SCAQMD Rule 1113, Architectural Coatings
 - Center for Resource Solutions' Green-e Product Certification Requirements
 - Green Seal GS-36, Commercial Adhesives
 - Green Seal GC-03, Anti-Corrosive & Anti-Rust Paints
 - Carpet & Rug Institute Green Label Plus Testing Program
8. What do the standards referenced in the Indoor Environmental Quality credit Low-Emitting Materials set limits for? (Choose 1.)
- biological oxygen demand (BOD)
 - volatile organic compounds (VOCs)
 - chlorofluorocarbons (CFCs)
 - global warming potential (GWP)
9. For which two credits is ASHRAE 52.2-1999, Method of Testing General Air-Cleaning Devices for Removal Efficiency by Particle Size, the referenced standard? (Choose 2.)
- EQc6, Controllability of Systems
 - EQc7, Thermal Comfort
 - EQc5, Indoor Chemical Pollutant Source Control
 - EQc3.1, Construction IAQ Management Plan: During Construction
10. The ASTM standards referenced throughout LEED-NC v. 2.2 refer all of the following traits except which two? (Choose 2.)
- Solar emissions
 - Solar reflectance
 - Solar absorbance
 - Emittance
 - Air leakage rate
 - Air pollutant levels
 - Site assessments
11. To which credit do the following three standards apply?
- _____ c _____ : _____
- IAQ Guidelines for Occupied Buildings Under Construction
 - ANSI/ASHRAE 52.2-1999: Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size
 - EPA Compendium of Methods for the Determination of Air Pollutants in Indoor Air

12. Match the following credits and prerequisites to the corresponding standard they reference. Some standards may apply more than once.

- a. EAc2, On-Site Renewable Energy
- b. SSc6.2, Stormwater Design, Quality Control
- c. SSp1, Construction Activity Pollution Prevention
- d. WEc3, Water Use Reduction
- e. EQc2, Increased Ventilation
- f. SSc8, Reduced Light Pollution
- g. EQc8, Daylighting & Views
- h. MRc2, Construction Waste Management

- 1. ASHRAE 90.1-2004
- 2. EPAc2
- 3. Storm Water Management for Construction Activities
- 4. No referenced standard
- 5. Guidance Specifying Management Measures for Sources of Non-Point Pollution in Coastal Waters
- 6. CIBSE Applications Manual

13. Define the following acronyms related to referenced standards in LEED-NC v. 2.2:

- 1. IESNA: _____
- 2. SMACNA: _____
- 3. ASHRAE: _____
- 4. SCAQMD: _____

14. Which standard describes the concept of measurement and verification, and provides a structure for a measurement and verification plan? (Choose 1.)

- a. Advanced Buildings Benchmark™ Version 1.1
- b. Residential Manual for Compliance with California's 2001 Energy Efficiency Standards
- c. The Energy Policy Act (EPAc) of 1992
- d. IPMVP Volume III: Concepts and Options for Determining Energy Savings in New Construction

Which credit does the previous standard refer to? (Choose 1.)

- a. EAc3
- b. EAc4
- c. EAc5
- d. EAc6

15. Which type of ventilation do the Carbon Trust Good Practice Guide 237 and CIBSE Applications Manual 10: 2005 refer to in EQc2, Increased Ventilation? (Choose 1.)

- a. Mechanical
- b. Natural
- c. Mixed-mode
- d. Active

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Answers

1. 90.1-2004
2. c, d, f, h
3. a
4. ASHRAE 62.1-2004; ASHRAE 55-2004
5. b, c
6. *Option 1:* ASHRAE/IESNA 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential
Option 2: ASHRAE Advanced Energy Design Guide for Small Office Buildings, 2004
Option 3: Advanced Buildings Benchmark™ Version 1.1
7. a, c, e, f, g
8. b
9. c, d
10. a, f
11. EQc3, Construction IAQ Management Plan
12. 1-a, f; 2-d; 3-c; 4-g, h; 5-b; 6-e
13. IESNA: Illuminating Engineering Society of North America
SMACNA: Sheet Metal and Air Conditioning National Contractors Association
ASHRAE: American Society of Heating, Refrigerating, and Air-Conditioning Engineers
SCAQMD: South Coast Air Quality Management District
14. d; c
15. b