



AIA/GREENSOURCE CONTINUING EDUCATION

INSTRUCTIONS

- ◆ Read the article “The Case for Commissioning” using the learning objectives provided.
- ◆ Complete the questions below, then fill in your answers on the AIA/CES education reporting form provided.
- ◆ Complete and submit this AIA/CES education reporting form or complete the form online at construction.com/CE/ to receive one AIA learning unit.

QUESTIONS

1. Which factor did not contribute to the reasons why energy-saving HVAC systems were not specified 20 years ago?
 - a. Energy costs were low
 - b. Energy-saving systems were complex
 - c. Energy-saving systems were expensive
 - d. Ease of maintenance was not important
2. For which type of construction is commissioning done?
 - a. Only buildings in coastal regions are commissioned
 - b. Only ships are commissioned
 - c. Commissioning can be done for any kind of building
 - d. All commercial buildings are commissioned
3. A building management system's sequence of operation performs what primary role?
 - a. Orients the building on the site
 - b. Explains facility cleaning procedures
 - c. Provides the programming basis for the mechanical system
 - d. Archives the design process
4. Why do technologically advanced buildings need to be commissioned?
 - a. To make sure each system alone works properly
 - b. To make sure the interdependent systems work well together
 - c. To let the systems adjust themselves
 - d. To allow the client to evaluate the system design
5. The GSA's Public Buildings Service's Total Building Commissioning process for quality assurance is used for all except which?
 - a. New construction
 - b. Facility modernization
 - c. Documenting the performance of the total building and its systems
 - d. Validating the credentials of the design team
6. The SFFB, which was intended to be a model of sustainable design, has all except which of these features?
 - a. A large footprint
 - b. Skip-stop elevators
 - c. Natural ventilation
 - d. Passive and active shading
7. Which term means “the lessons learned from the SFFB will be applied to future federal buildings”?
 - a. Pay out
 - b. Cash-in
 - c. Feed-forward
 - d. Pay back
8. Enovity will monitor energy use for the first 18 months after occupancy for which reason?
 - a. To recalibrate the HVAC systems
 - b. To verify the SFFB exceeds Title 24 by 15 percent
 - c. To determine which system uses the most energy
 - d. To reduce the energy usage another 10 percent
9. What is the goal of functional testing?
 - a. To ensure there are no malfunctioning devices
 - b. To see if the control system can correct a malfunctioning device
 - c. To determine which device is likely to malfunction
 - d. To determine which device has already malfunctioned
10. In order to encourage manufacturers to provide a lighting and shading solution, the New York Times did all except which step?
 - a. Teamed up with LBNL and public funding for research
 - b. Conducted tests on commercially available shading devices and daylight harvesting
 - c. Gave a stipend to invited manufacturers to develop and prove their products performed
 - d. Monitored human factors at the old office location

PROGRAM TITLE: “The Case For Commissioning” *GreenSource* (January 2008, page 54).

AIA/CES CREDIT: This article will earn you one AIA/CES LU of health, safety, and welfare credit. (Valid for credit through October 2009.)

DIRECTIONS: Select one answer for each question in the exam and completely circle the appropriate letter. A minimum score of 80% is required to earn credit. Take this test online at <http://construction.com/CE/>.

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6.	a	b	c	d	CHECK ONE: <input type="checkbox"/> \$10 payment enclosed. Make check or money order payable to McGraw-Hill Construction and mail to: Continuing Education Certificate, PO Box 5753, Harlan, IA, 51593-1253. For customer service, call (877) 876-8093.		
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