

Healthy and Smart Education Facilities

Healthy and Smart Education Facilities (one-hour course)

Subject Code Index: *4.5 Design Specialties-Education; 2.12 Interior Design-Sustainable/Environmental Design*

IIDA Course #5095

AIA Course #540, including health, safety, welfare

Course Description: If everyone loves the idea of high performance educational facilities, why don't we have them? In this hands-on lecture, you will learn about the consequences of non-high performance educational facilities in contrast to the characteristics and benefits of "healthy" and "smart" education facilities. Replacing myths with facts, case studies will demonstrate that high performance need not cost more. Leave with your own "action plan" to gain support for and take steps towards creating high performance buildings in your own region as part of your professional practice.

This course will cover the following objectives:

- Identify high performance and non-high performance characteristics of their current home and school/workplace
- Describe the consequences of non-high performance schools as well as the characteristics and benefits of high performing schools
- Develop an "action plan" listing ways to gain support for and take steps towards creating high performance schools in their district or as part of their design practice

Course outline:

1. Introduction and interactive exercise "Audit Home/Workplace"
2. Why green design?
3. Definition of High Performance Schools
4. Top issues facing Education facilities today
5. Consequences, characteristics and benefits of High Performance "Healthy" schools
 - Indoor air quality
 - Lighting
 - Thermal comfort
 - Acoustics
6. Characteristics and benefits of High Performance "Smart" schools
 - Environmentally responsible site
 - Easy to maintain and operate
 - Technology
 - Flexible, responsive learning environment
 - Teaching tool
 - Community resource
7. Demystifying the cost argument (case studies)
8. Keys to success and resources
9. Your "Action Plan"