



Professional Development

The American Institute of Architects Continuing Education System

Course# LCF100

Lighting the Classroom of the Future: A DOE Project

- AIA HSW Approved - 1 LU, HSW
- NCQLP Approved - 1 LEU

Provider:

Finelite, Inc.

Method of Delivery:

The facilitator will use a powerpoint presentation to review the information.

Audiovisual Required:

Facilitator will provide audiovisual equipment. Access to an electrical outlet will be required.

Cost to Participants:

Free

Point of Contact:

Jennifer Langsam

Director of Marketing & Creative Services

Finelite, Inc.

30500 Whipple Road

Union City, CA 94587

P: 510-476-2937

F: 510-441-1510

E: jennifer.langsam@finelite.com

Program Summary

PROGRAM OVERVIEW:

The Department of Energy has initiated a research project to develop and test novel SSL luminaire designs for the classroom of the future. This presentation will present key findings from this research effort. Topics covered will include how major drivers such as new trends in lighting and controls, new trends in learning, new requirements for the classroom, and a new understanding of how human centric lighting changes the way we need to light classrooms. The presentation will cover the DOE-proscribed goals for energy efficiency, teacher control over lighting intensity and CCT, lumen maintenance and color stability, luminaire performance and lighting levels on classroom desks and walls. After the presentation, the attendee will understand how to meet or exceed the DOE goals.

LEARNING OBJECTIVES:

Attendees will:

- Understand the challenges of lighting the classroom of the future with its multi-purpose spaces, advanced communications technologies, and multi-generational occupants
- Become familiar with the DOE design for the classroom of the future including layout, flexibility, and lifetime of materials and luminaires
- Examine the DOE performance goals including teacher control of intensity and color (CCT), balance of daylight and electric light, and centralized control
- Understand the DOE performance metrics including luminaire efficacy (LPW), flicker and power quality, lifetime and color stability, and vertical and horizontal illuminance levels in the classroom
- Observe the results to date of room-level performance when lighting for students, for the aging eye, for audio/visual and whiteboard modes, to balance daylight, for maximum alertness and maximum calming

FACILITATOR QUALIFICATIONS:

All Finelite facilitators have been trained on guidelines and presentation skills. In addition, all presenters receive continuous training on the science of lighting, best practices, and all applicable energy codes related to the lighting design process.

FINELITE®

Better Lighting

www.finelite.com

AIA/CES Registered Provider