

Controls – AIA Course Descriptions

Commercial Lighting Controls: Energy Savings Strategies and Product Solutions

This HSW course will explore the cost of lighting energy waste and nine different control strategies that save energy. Programmable timing, occupancy sensing, daylighting, load shedding, demand response, bi-level switching, personal control, tuning, and receptacle control are the nine control strategies addressed. Each control strategy will be discussed in terms of the applicable energy codes that encourage or require the control and the average energy savings it generates. Specifics on the lighting control equipment necessary to implement each control strategy will also be detailed.

Learning Units: 1

Credit Designations: LU|HSW

Time: 1 hour

Improve Energy Efficiency with Addressable Lighting Control Systems and DALI

This HSW course explores the ways in which an addressable lighting control system and a digital addressable lighting interface (DALI) system can improve the overall energy efficiency of a lighting system. The differences between designing and wiring traditional relay or 0-10V lighting control systems and addressable lighting control systems are reviewed. The lighting control systems are compared in terms of how they provide time scheduling, daylighting, occupancy/vacancy sensing, and personal control and the latest energy codes now requiring these advanced control functionalities are identified. The biggest myths surrounding DALI systems are also addressed.

Learning Units: 1

Credit Designations: LU|HSW

Time: 1 hour

Meeting Latest Building Code Requirements for Commercial Lighting Controls

This HSW course explains how building codes transition from voluntary practices to mandatory requirements that are enforceable by law, explores the most recently released versions of ASHRAE/IESNA 90.1, IECC, and Title 24 and the changes to lighting controls requirements contained within each new standard. The latest updates to LEED v4 and the credits that lighting controls can now contribute toward will also be addressed. Product solutions now available to help designers achieve compliance with building codes and LEED credits will also be examined.

Learning Units: 1

Credit Designations: LU|HSW

Time: 1 hour