

## **Course Title**

### **Low Voltage Lighting System Design Basics**

## **AIA Course Code**

SYSTEMSCES2020

## **Course Description**

This is an introductory course that offers a comprehensive overview of designer low voltage LED lighting systems. Learn why, when and how to take advantage of the best qualities of LED lighting technology; designing with systems.

## **Introduction**

Electric light was introduced with incredible benefits including the ability to live our lives in the evening and transform our environment.

LED technology is changing the paradigm of installation and maintenance and energy consumption. Major change happens incrementally. We will explore the progression from LED retrofit lamps, replacement luminaires, to integrated lighting systems designed to take full advantage of the benefits of most efficient and dynamic qualities of new LED technology.

## **Prerequisite Knowledge**

Basic understanding of design specification concepts. Some experience with interior lighting design fundamentals.

## **Learning Objectives**

1. Review evolution of lighting technology to understand context when designing with current technology.
2. Understand Electricity and ask critical questions to specify the ideal power supply for your application. Understanding Class 2 Systems.
3. Gain an understanding of the advantages of lighting systems to maximize benefits of modern lighting control technology.
4. Learn techniques for applying the benefits of low voltage LED systems as they apply to the layered lighting design approach.