

# Ecosense AIA Course: ESL104

## *Enhancing Interior Spaces with Indirect Lighting*

50 Minutes + Q&A / (1) HSW Learning Unit

### **Course Description**

Interior spaces can best be enhanced with layer lighting designs, which incorporate a combination of direct and indirect lighting. This course explores how indirect lighting can be used to improve the comfort level of a space and allow it to be used in multiple ways. Participants will learn lighting design techniques for dramatically illuminating ceilings, walls and backlighting through translucent materials. This course also examines the unique properties of LED luminaires and how they should be selected and specified to insure quality and performance.

### **HSW Justification:**

**Health:** Over 75% of this presentation focuses on how to specify indirect lighting which improves the comfort level of spaces, positively affecting occupants emotional and social well-being.

**Safety:** Proper light levels are reviews to insure occupants can safely move through the spaces with enough light to perform all tasks.

**Welfare:** How to specify highly efficient LED light sources which are environmentally friendly and how to incorporate them into the built environment to elevate the human experience.

### **Learning Objective 1:**

Analyze the basic principles of interior indirect lighting design. • Reflecting light off of ceilings from a cove using wide to medium beam angles • Reflecting light off of walls from a slot using medium to narrow beam angles. • Reflecting light through translucent materials from a light box.

### **Learning Objective 2:**

Calculate the optimal fixture placement, setback and intensity based on the desired effect and application.

### **Learning Objective 3:**

Determine optimal light color and distribution to enhance finish colors and textures.

### **Learning Objective 4:**

Specify energy efficient LED luminaires to insure quality and performance.

- Determining useful lifetime
- Measuring beam angles and output
- Understanding the color and quality of light
- Insuring consistence of lighting characteristics.