

Advanced Lighting Controls Course Outline and Curriculum ***A New Resource for DoD installation managers, lighting designers and contractors***

The training topics for **installation managers** cover six modules and a total of **16 high-level**, short courses (about 15 minutes each):

- 1. Case Studies of Advanced Lighting Controls**
 - Cree SmartCast Lighting Retrofit Demonstration: LED Fixtures and Controls for Advanced Holistic Lighting Solutions
 - Validating the Digital Lumens Lighting Control Platform
 - Intelligent Building Management with Holistic Digital Lighting
 - Lighting Technology Energy Solutions LiTES
- 2. Fundamentals of Lighting Control Systems**
 - Lighting Control System Basics
 - Code Required Lighting Controls Strategies
 - Luminaire Level Lighting Controls
- 3. Common Advanced Control Strategies**
 - Task Tuning
 - Daylight Controls
 - Occupancy and Vacancy
 - HVAC Integration
- 4. Types of Controls (fixture integrated, room based, networked)**
 - Wired and Wireless
 - Standalone and Networked Controls
 - Lighting Controls Savings Estimation
- 5. Introduction to Design Lights Consortium**
 - Introduction to DesignLights Consortium
- 6. Cybersecurity**
 - Cybersecurity Overview for Lighting Controls

The training topics for **lighting designers and contractors** will cover six modules and a total of **17 in-depth courses** (about 1-hour each).

- 1. Case Studies of Advanced Lighting Controls**
 - Cree SmartCast Lighting Retrofit Demonstration: LED Fixtures and Controls for Advanced Holistic Lighting Solutions
 - Validating the Digital Lumens Lighting Control Platform
 - Successful Lighting Control + HVAC Integration Projects
- 2. Fundamentals of Lighting Control Systems**
 - Lighting Controls System Basics
 - Code Required Lighting Controls Strategies
 - Luminaire Level Lighting Controls

3. Common Advanced Control Strategies

- Task Tuning
- Daylighting controls
- Occupancy and Vacancy Sensing
- HVAC Integration
- Emergency Lighting and Controls - Part 1
- Emergency Lighting and Controls - Part 2

4. Types of Controls (fixture integrated, room based, networked)

- Wired and Wireless Controls
- Standalone and Networked Controls
- Lighting Control Savings Estimation

5. Introduction to DesignLights Consortium

- Lighting Control Product Review & Specification; Integration with Other Building Systems

6. Cybersecurity

- Cybersecurity Overview for Lighting Controls

Signup on Slipstream's webpage to access courses:

<https://slipstreaminc.org/solutions/estcp/advanced-lighting-controls>

