



## **Conquering the Energy Code for Architects and Engineers: Commercial**

*Course Outline*

### **At the end of this course, participants will:**

- Understand the structure and rationale behind the energy code
- Be able to differentiate the various compliance pathways and understand the requirements for compliance
- Sharpen communication and coordination practices as related to clients, the design team, code officials and the construction team to remove barriers to compliance
- Understand the interdependence of the building envelope, mechanical and lighting systems and their impacts on energy consumption

And finally, inspire design professionals to build above code minimum.

---

## **PART 1: OVERVIEW**

### **1. Introduction: Energy Code Basics**

- Benefits and Trends
- Basic Parameters

### **2. Energy Codes are a Systems-Based Approach**

- Whole Building Design
- Systems regulated by code:
  - Building Envelope
  - Mechanical and Service Water Heating
  - Electrical Power and Lighting Systems

### **3. Coordination and Communication**

- Team Communication
- Integrated Design Approach

## **PART 2: COMMERCIAL ENERGY CODE PROVISIONS**

### **1. Compliance**

- Overview and Definitions
- Selecting Compliance Paths

### **2. Prescriptive Path**

- Building Envelope Requirements
- Building Mechanical Systems
- Service Water Heating
- Electric Power and Lighting Systems
- Additional Efficiency Package Options

### **3. Total Building Performance**

### **4. Existing Buildings**

## **PART 3: DOCUMENTATION AND INSPECTIONS**

### **1. Introduction**

### **2. Compliance**

- Plan Review & Documentation
- Supporting Documentation
- Progress Inspections

### **3. Common Objections**

### **4. Local Laws**

### **5. Resources**