

## **SYLLABUS FOR CONTINUING EDUCATIONAL APPROVAL**

### **Building Officials & Inspectors Educational Association (BOIEA)**

**Provider #0000865**

#### **COURSE TITLE:**

“5<sup>th</sup> Edition FBC Energy Conservation Advanced Course”

#### **Hours of Credit:**

55 minutes, 1.0 Hours Continuing Education Credit

#### **Provider Information:**

Building Officials and Inspectors Educational Association  
1126 South Federal Highway, Suite 394  
Fort Lauderdale, FL 33316

Contact:

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#### **COURSE DESCRIPTION:**

This interactive, instructor led course is designed to provide Building Code Administrators, Plans Examiners, Inspectors, Design Professionals and Contractors with 1.0 hours of comprehensive instruction on the 5<sup>th</sup> Edition Florida Building Code- Energy Conservation and the ways for projects to be presented to meet the requirements of energy conservation as called for in Florida Statutes.

#### **COURSE PREREQUISITES:**

None

#### **LEARNING OBJECTIVES OF THE COURSE:**

Once completed, this course will improve the participant’s technical ability to understand, interpret and apply the requirements of the 5<sup>th</sup> Edition Florida Building Code Energy Conservation.

**TOPICAL OUTLINE;**

See attached outline

**QUALIFICATION OF INSTRUCTOR;**

Steve Pizzillo is a Certified General Contractor, Building Inspector and Building Code Administrator (see attached resume).

**QUALIFICATIONS FOR FUTURE INSTRUCTORS;**

Certification as a Contractor, Building Inspector, Plans Examiner, Engineer or Building Code Administrator.

**COURSE OUTLINE**

**TIMELINE**

**Section 1 -Introduction**

**10 Minutes**

A review of the history and need for the Energy Conservation section of the Florida Building code, including the basic differences between the 5<sup>th</sup> Edition and previous codes.

**Section 2 – Commercial Section**

**25 Minutes**

An overview of the requirements for commercial buildings and the building sites and associated systems and equipment. The code will describe how to design and construct buildings for effective use and conservation of energy. There will also be a review of the way that innovative approaches and techniques can be utilized.

**Reference Sections:** C101.2 Scope, C101.4.1 Existing Building, 101.4.7 Building systems and components, C101.4.8 Exempt Building, C101.4.8.4 Building designed for purposes other than general comfort conditioning, C101.5.1 Compliance materials, C102.1.1 Above code programs, C103.1.1.1.2 Commercial & multiple family residential, C103.2 Information on construction documents, Definitions, Computer Room, Renovated Building, Visible Transmittance, C301 - Climate Zones, C301.1 Climate Zones, Moisture Regimes and Warm Humid Designation by County, C303.1.1 Building thermal envelope insulation, C303.1.1.1 Blown or sprayed insulation, C402.4.9.1 Vented dropped ceiling cavities, C402.4.9.2 Unvented dropped ceiling cavities, C402.4.9.3 Separate tenancies, C402.4.9.3 Separate tenancies, C402.4.9.4 Air distribution components, C403.2.1 Calculation of heating & cooling loads, Exception to Manual N, C404.7.3 Covers, C404.8.1 Showers, C404.8.2 Lavatories or restrooms of public facilities, C405.2.1.1 Interior Lighting Controls, C405.2.1.2 Light Reduction Controls, C405.2.2.1 Automatic time switch control devices, C405.2.2.2 Occupancy Sensors, C405.2.2.3 Daylight Zone Control, C405.4 Exit Signs, C405.6 Exterior lighting, C405.6.1 Exterior building grounds lighting, C405.6.2 Exterior building lighting power, Table C405.6.2(2), C405.7 Electrical Power, C405.7.1 Electrical

metering, C407.2.1 Roof/ Ceiling Thermal Envelope, C408.2.1 Commission Plan, C408.2.2 Air distribution system testing, adjusting & balancing, C408.2.4.1 Acceptance of report, C408.2.4.2 Copy of report, C408.3 Lighting System Functional Testing

### **Section 3-Residential Section**

**15 Minutes**

An overview of the requirements for residential buildings and the building sites and associated systems and equipment. The code will describe how to design and construct buildings for effective use and conservation of energy. There will also be a review of the way that innovative approaches and techniques can be utilized.

**Reference Sections:** R101.4.7 Building Systems and Components, R401.3 Energy Performance Level Display card, R402.2.13 Common Walls/Ceilings/Floors, R402.2.4 Access Hatches and Doors, R404.1 Lighting equipment, R405.2.1 Ceiling insulation, R405.5.3.4 Maximum Fenestration SHGC, R405.6.3.1 Water Heater EF Adjustment Factor, R405.7.6 Installation criteria for homes using ceiling fan option, Table 405.7.6 Fan Sizing Table

### **Review, Evaluation & Questions**

**5 Minutes**

**Total Course Time**

**55 Minutes (1.0 C.E. hours)**

### **METHOD OF PRESENTATION;**

Lecture, Multimedia Presentations and Discussion

### **End of Course Syllabus**