

## **COURSE SYLLABUS**

### **PROVIDER:**

AIA Florida  
104 East Jefferson Street  
Tallahassee, FL 32301  
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### **COURSE TITLE:**

Advanced FBC 7<sup>th</sup> Edition (2020) – The Five Walls of IBC, A Guide to Fire-Resistance & Fire Protection – Virtual

### **NUMBER OF CLASSROOM HOURS:**

2 Hours – 2 CEU Course

### **COURSE DESCRIPTION:**

As adopted in the Florida Building Codes, 7<sup>th</sup> Edition (2020), this course is designed to equip design teams with a working knowledge of the five walls of the IBC. Classroom attendees will learn the prescriptive differences between wall ratings (fire-resistance), opening protective ratings (fire protection), and how each perform in passive redundant systems. At the end of the course, each student will better understand the specific use of each wall, its opening protectives and applications within the framework of code compliance. Test criteria for fire-resistance and opening protection will be illustrated and fully explained as applies to current code requirements.

The course will be presented with a combination of slides, verbal explanations, poignant case study and laboratory illustrations, personal hands-on testimony - all through a unique style of teaching built upon a familiar chain of reasoning. In other words, building code compliance presented so that all can understand and apply.

Free to each student is a supplemental 130-page textbook i.e.(Fire Door Systems, A Guide to Code Compliance) with more detailed code references and examples for the course. The book will not be directly referenced during the seminar but has become a tremendous help to students of these basic code principles. For example, the appendix includes a full page on each of the five walls, their definitions, opening protective guidelines and applications. The link for each student enrolled in the online curriculum will be provided for download and reference before the seminar. The link is:

<https://www.dropbox.com/s/6lt7eq6tzhdmkt/Fire%20Door%20Systems%2C%20A%20Guide%20to%20Code%20Compliance%20%282018%20Edition%29.pdf?dl=0>

Please note this booklet references the 2018 IBC, however, the fundamental principles taught in this course are the same regardless of the code edition or local adoption amendment process, these basic principles do not change each code development cycle.

**CODE EDITION:**

Florida Building Codes 7<sup>th</sup> Edition (2020). The FBC 7<sup>th</sup> Edition (2020) was an adoption of the 2018 IBC with amendments. The fundamental principles discussed in this presentation are the same in both documents.

**TIMELINE:**

1. Overview of the five walls and how they differ from the Legacy Codes	3 minutes
2. Definition & purpose of a fire resistance rating	5 minutes
3. Unwritten principle of Passive Redundancy	3 minutes
4. Definition & purpose of a fire protection rating	5 minutes
5. Opening protectives within the five walls	5 minutes
6. UL10B/NFPA 252 test criteria defined	5 minutes
7. Definition & purpose of the hose stream criteria	6 minutes
8. Fire label without hose stream	5 minutes
9. Temp Rise/NFPA 252 test criteria defined	5 minutes
10. E119 test criteria defined	5 minutes
11. UL10C/NFPA 252 test criteria defined	5 minutes
12. Fire Wall, Definition & purpose	6 minutes
13. Fire Wall, Openings & protectives	10 minutes
14. Fire Wall & openings, example	10 minutes
15. Fire Barrier wall, definition & purpose	6 minutes
16. Fire Barrier wall, openings & protectives	10 minutes
17. Smoke Barrier wall, Definition & purpose	6 minutes
18. Smoke Barrier wall, Openings protectives	10 minutes
19. Smoke Partition wall, Definition, purpose & opening protectives	10 minutes

**Total Time 120 minutes**

**Method of Presentation:** This course will be a recorded version of a live seminar.

**Method of Evaluation:** The presentation will be followed by a 20-question quiz that will be required for completion along with a signed affidavit.

**SPECIFIC COURSE LEARNING OBJECTIVES:**

- Develop an understanding and working knowledge of the five walls and their specific purposes as defined in the IBC
- Know the difference between a fire-resistance rating and a fire protection rating
- Explore the test provisions for wide-span opening protectives
- Investigate the reasoning behind the opening protective requirements for all five walls
- Develop a solid familiarity with where to apply each of the five walls in project designs