



Program #	Presentation Title & Description
RJA 01 (1 LU)	UPDATED - Smoke Control Design & Testing Developments The participants will gain knowledge of smoke control prescriptive and performance-based code requirements, design criteria and methodologies, smoke plume configurations, effects of building design features on smoke control, new technologies, and testing protocol.
RJA 04 (1 LU)	UPDATED - Types of Construction & Determining Fire Resistance of Structural Elements Participants gain an overview of types of construction, fire resistance ratings of structural elements, determination of fire resistance ratings, and evaluations of a building's fire performance.
RJA 10 (1 LU)	Building Code Basics-New York State Building Codes An overview of the major building code issues that need to be considered in building architectural design, presented in the context of the current New York State Building Code. Attendees will gain a working knowledge of the code and understand the concepts and the intent being many of the major code requirements.
RJA 14 (1 LU)	UPDATED - Introduction to Fire Alarm & Fire Suppression Systems Participants will have an understanding of non-water based suppression systems, fire alarm systems, the components of these systems and the accompanying NFPA Standards. In addition, participants will know about types of sprinkler systems available, their components and general spacing criteria.
RJA 22 (1 LU)	UPDATED - The International Building Code & The International Fire Code Participants will understand the joint development process, format, and general highlights of The International Codes. The presentation will focus on the International Building Code (IBC), and the International Fire Code (IFC).
RJA 34 (1 LU)	The IBC - Introduction & Brief Analysis Participants gain an overview of the development of the International Building Codes and general highlights.
RJA 39 (1 LU)	Staying in Compliance with the Changing NFPA Standards Presentation gives a review of the changes to NFPA Codes for Healthcare Occupancies.
RJA 52 (1 LU)	Sprinkler trade-Offs in the 2003 IBC This program will examine the 2003 IBC and what implications this has on sprinkler systems. After attending this presentation, attendees should be able to : 1. Identify the correct hourly fire resistance ratings for building types based on the 2003 IBC; 2. Recognize and identify criteria to be used in determining construction requirements of sprinklered and non-sprinklered buildings; 3. Evaluate the principles in each project to determine different ideas of acceptable risk and base decisions on sound principles
RJA 53 (1 LU)	Integrating Life Safety and Security Systems in High-Rise Buildings This program will examine how several high profile building fires have led to a focus on occupant safety and security during emergencies. After attending this presentation, attendees will be able to: 1. Understand and apply relevant building codes, ordinances, and mandates for different situations; 2. Learn about different stairwell re-entry systems and be able to apply them to different situations for the most effective, safe, and secure environment for building occupants; 3. Evaluate building factors (occupant type, building lay-out) etc., to determine if the over all life safety plan that is right for that property
RJA 54 (1 LU)	Performance-Based Design for Green Buildings This program will give an in-depth look into how performance-based design methods can be used for unique buildings to perform more accurate the smoke management systems analysis. After attending this presentation, attendees will be able to: 1. Use a real world example of how "green "building and unique building layouts can effect how accurate smoke management analysis and fire rating is and how to overcome those inaccuracies; 2. how to integrate code required and fire safety systems while maintaining the "green" design of the facility; 3. understand how fire modeling can improve and provide a more detailed look at how actual fire and emergency situations will play out in these types of buildings

- RJA 55** **2003 IBC Fire Alarm and Detection System Requirements**
This program will review the 2003 IBC and all applicable codes to determine the requirements for each specific building, use, and situation. After attending the presentation, attendees will be able to: 1. Understand the different types of detection systems and determine which is best in different scenarios based on occupant type and building characteristics; 2. Know when fire alarm and detection systems need to be monitored by an approved supervising station; 3. Determine when a fire alarm system is necessary if a sprinkler system is already in place
(1 LU)
- RJA 56** **Safer Emergency Exiting Through Pathway Lighting**
This program will review the shift in emergency lighting from traditional overhead to pathway marking and how this is more beneficial in a fire emergency situation. After attending this presentation, attendees will be able to: 1. Evaluate different technology available to determine which type is best for a specific facility to guide occupants out in case of an emergency; 2. Understand occupant behaviors and reactions in emergencies and how that translates to which type of pathway marking should be used to ensure the safest course of egress
(1 LU)
- RJA 57** **Egress Modeling**
How and when to utilize timed egress models to a project. What to look for when reviewing different egress models. What data can be gathered when utilizing egress models and how to apply it to a design project.
(1 LU)
- RJA 58** **IBC Mall Provisions**
International Building Code requirements applicable to covered mall buildings and comparison of these requirements with the covered mall building requirements of the 2001 edition of the California building code
(1 LU)
- RJA 59** **NFPA 45 - Standard on Fire Protection for Labs Using Chemicals**
Laboratories present unique fire protection and life safety challenges due to the hazardous materials being stored and used, as well as the changeable nature of the research and bench scale processing. This presentation provides the major requirements contained in NFPA 45 Standard for Fire Protection in Laboratories Using Chemicals (2000 Edition). Topics to be discussed include: laboratory unit classification and design; flammable and combustible liquid quantity limits; fire protection; explosion hazards; laboratory ventilation; chemical storage and handling; gas storage and use; laboratory operations; and hazard identification.
(1 LU)
- RJA 60** **2006 NFPA 101-Life Safety Code Update with Healthcare Focus**
Participants will have a better understanding of the significant code changes, with particular focus on healthcare occupancies, made in the 2006 edition of the Life Safety Code.
(1 LU)
- RJA 61** **New York City Building Code Basics: 1968 vs. 2008 Edition**
Due to the adoption of a new building code by the city of New York, the program enables the participants to gain a general understanding of the life safety differences between the existing code and the new adopted code. It offers a side by side comparison of code compliance requirements by highlighting major changes.
(1 LU)
- RJA 64** **Use and Application of the IBC on International Projects**
This presentation will present the following:
Typical building and fire code related design challenges for international projects
General background of the International Building Code (IBC)
Strengths of the IBC for use on international projects
The IBC code change process
Application of Third Party review for the IBC
(1 LU)
- RJA 65** **IBC 2006**
This program will review significant changes in the 2006 edition of the International Building Code (IBC). After attending this program, attendees will be able to: 1. Identify the significant changes in the 2006 IBC; 2. Determine under what conditions these changes are applicable; 3. Recognize the impact of these changes on building design features.
(1 LU)
- RJA 66** **Assuring Survivable Circuits with Rated Cable**
Objectives: 1. Learn the requirements for circuit survivability in the National Fire Alarm Code (NFPA 72); 2. Identify the types of rated cables; 3. Learn alternative designs to the use of 2-hour rated cables.
(1 LU)
- RJA 67** **Fundamentals of Sprinkler Systems**
This presentation discusses in depth the various components of a sprinkler system, and the different types of sprinkler systems that a designer might utilize based on the hazard to be protected. Basic design principles and guidelines are discussed.
(1 LU)
- RJA 68** **2007 California Building Code Changes**
Inform architects of new California Building Code requirements that differ from current code

- RJA 69** **Fire Protection/LS Code Compliance for Laboratory Facilities**
Become familiar with the IBC and NFPA requirements for separation of building areas storing and using hazardous materials. Understand the similarities and differences between the control area, laboratory unit, and high hazard occupancy approaches. Learn the fire protection and life safety features and challenges associated with hazardous materials storage and use.
(1 LU)
- RJA 70** **Performance Based Building Codes and Historic Buildings**
The national shift toward the International Code Council "family" of codes presents a greater opportunity to implement performance based design solutions in lieu of the prescriptive requirements that were contained in former model codes. The ICC's intent was to provide a framework to achieve defined fire and life safety objectives by means of a systematic approach, rather than the one solution that has been historically provided in the model codes. The shift towards fire protection and life safety performance based design offers new opportunities for better architectural design solutions in historic buildings without destroying their fabric or heritage. Topics of discussion include: What is the evolution in building codes and the key differences found in the IBC Group? What is the effect of the new codes on historic buildings and the tools that enable the best design? How do you negotiate the approval of the performance-based design plan with the building and fire authorities.
(1 LU)
- RJA 71** **Egress Code Implications for Assembly and University Spaces**
Assembly occupancies create unique life-safety issues. We describe a methodology and the process used to examine such occupancies. An overview of the general and specific egress requirements is provided. The confusing yet critical determination of 'use group' classification of higher education classroom buildings (A-3, Assembly vs. B, Business) is discussed and we examine the differences between the two and the associated design implications. We describe the development of useful life safety drawings and conclude with a discussion of evacuation planning strategies for managing and coordinating the unique life-safety issues of assembly occupancies.
(1 LU)
- RJA 72** **Vertical Openings: A Comparison of IBC and NFPA 101 Requirements**
This program will compare and contrast the vertical (floor) opening requirements of the 2003 edition of the International Building Code (IBC), and the 2003 edition of the Life Safety Code (NFPA 101). Attendees will learn the definitions and different requirements for atriums, shafts, convenience openings, communicating spaces and mezzanines.
(1 LU)
- RJA 73** **Ch 34 Reqs of the MA State Building Code, the IBC and the LSC**
This presentation highlights the major differences between Chapter 34, Repair, Alteration, Addition, and Change of Use of Existing Buildings of the Massachusetts State Building Code (MSBC) and the Chapter 34, Existing Buildings, of the International Building Code (IBC). The MSBC contains verbose complicated language that is required to be addressed when renovating or adding to existing buildings while the IBC contains a straight-forward mathematical calculation. In addition, this presentation seeks to introduce and compare other codes such as the Life Safety Code and the International Existing Building Code to the MSBC and IBC that may be adopted by certain jurisdictions.
(1 LU)
- RJA 74** **New Georgia Codes - 2007**
Learning Objectives: 1. Familiarize the architectural community with the newly adopted code structure in the State of Georgia; 2. Understand the notable changes to NFPA codes and their effects when designing a building; 3. Become familiar with significant changes to the IBC and the implications to building design; 4. Review the newly adopted elevator lobby and atrium smoke control requirements in the State of Georgia
(1 LU)
- RJA 75** **Fire Protection Engineering and the Design Practice**
Gain Understanding of the capabilities of a fire protection engineer. Become familiar with the fire protection engineer's role in the design process. Gain an understanding of the process for incorporating fire resistance into the structural design process.
(1 LU)
- RJA 76** **New Georgia Codes - 2007 (Extended 2 hour program)**
Learning Objectives: 1. Familiarize the architectural community with the newly adopted code structure in the State of Georgia; 2. Understand the notable changes to NFPA codes and their effects when designing a building; 3. Become familiar with significant changes to the IBC and the implications to building design; 4. Review the newly adopted elevator lobby and atrium smoke control requirements in the State of Georgia
(2 LU)

RJA 77

Special Hazards in Laboratory and Process Areas

several special hazards found in many laboratory and process facilities, including:

- Hydrogen hazards:
 - o Hazard properties of hydrogen
 - o Indoor/outdoor storage in cylinders and bulk containers
 - o Indoor/outdoor dispensing
 - o Hydrogenation equipment issues
 - o Separation from other hazards
 - o Flame and gas detection

- Explosion hazards:
 - o Flammable gases
 - o Flammable liquids
 - o Combustible metals and dusts
 - o Electrical classification
 - o Deflagration venting
 - o Explosion prevention and control
 - o Ignition control

(1 LU)

RJA78

Massachusetts State Building Code (MSBC) 7th Edition

This presentation reviews some of the major differences between the International Building Code (IBC) and the upcoming 7th edition of the Massachusetts State Building Code. Massachusetts is currently in the process of adopting the 7th Edition of the MSBC based on the 2003 edition of the ICC.

Participants will understand the 2003 IBC format, the new major requirements/concepts and specific MA amendments that will likely be incorporated.

(1 LU)

RJA79

Code and Systems for Low and Mid-Rise Residential Design

This program examines several areas where emergency response and fire protection systems can be enhanced. After attending this presentation, attendees will gain knowledge and understanding of conceptual safety functions, when these functions are required, operating principles, and common errors in the following areas:

- Site Fire Department Access
- Hydrant Location
- Fire Flow
- Fire Sprinkler and Standpipe Systems
- Fire Alarm Systems

(1 LU)

RJA 81

Changes to the 2007 Florida Building and Fire Code

Participants will understand the significant code changes for egress, life safety and fire protection for the new Florida Codes to be adopted in December 2008. These code changes may impact current and future design work.

(1 LU)

RJA 83

2007 California Building Code - 4 hour program

Enhanced understanding of the changes in the 2007 California Building Code - detailed study of accessibility standards as outlined in the 2007 CBC.

(4 LU)

RJA 84

10 Common Design Misunderstandings

Presentation will cover 10 misunderstandings that are commonly encountered during the design of buildings. These misunderstandings occur on the part of the architect, engineer, AHJ and others. Presentation identifies means by which the number of misunderstandings and their impact may be reduced or avoided. Specifically, the presentation focuses on building code terminology, occupancy classification, height and area limitations, requirements for barriers, means of egress and the ended for communication between the parties involved.

(1 LU)

RJA 85

Sprinkler Trade-Offs in the 2006 IBC

This program will examine the 2006 IBC and what implications this has on sprinkler systems. After attending this presentation, attendees should be able to: 1. Identify the correct hourly fire resistance ratings for building types based on the 2006 IBC; 2. Recognize and identify criteria to be used in determining construction requirements of sprinklered and non-sprinklered buildings; 3. Evaluate the principles in each project to determine different ideas of acceptable risk and base decisions on sound principles.

(1 LU)

RJA 88 MSBC 7th Edition - Chapters 3-5

(1 LU) This presentation reviews some of the major differences between the International Building Code (IBC) and the newly adopted 7th Edition of the Massachusetts Building Code. This presentation is designed to cover Chapters 3 through 5 of the new Massachusetts State Building Code. While the major topics of each chapter are introduced, a substantial focus of the presentation is on Use Group A, B, and H occupancies. The goal of the presentation is to educate the user on the application of the code requirements contained within each chapter.

RJA 89 MSBC 7th Edition - Chapters 6-9

(1 LU) This presentation reviews some of the major differences between the International Building Code (IBC) and the newly adopted 7th Edition of the Massachusetts Building Code. This presentation is designed to cover Chapters 6 through 9 of the new Massachusetts State Building Code. While the major topics of each chapter are introduced, a substantial focus of the presentation is on Use Group A, B and H occupancies. The goal of the presentation is to educate the user on the application of the code requirements contained within each chapter.

RJA 90 Healthcare Focused Updates for the 2006 Edition and 2009 Edition of NFPA 101 Life Safety

(1 LU) Participants will gain an understanding of the new requirements of both the 2006 edition and 2009 edition of the NFPA 101 Life Safety Code. The changes presented are limited to those affecting healthcare occupancies. These changes can help designers negotiate innovative and cost effective new healthcare designs.

RJA91 Disabled Access 101 - California Requirements

(1 LU) Understanding of the codes and regulation for disabled accessibility under the Americans with Disabilities Act (ADA), Fair Housing Act (AHA) and the California Building Code (CBC); California Law required architects to have specific continuing education credits in the area of disabled access for licensing. This program is specific to this requirement; Knowledge is applied to all areas of architecture from design to construction, and therefore usable by all aspects of the profession.

RJA 92 Understanding the Performance Based Design Approach

(1 LU) 1. The Participant will understand how to apply the Performance Based Design Analysis to his overall design, and who should be involved in the process. 2. The Participant will understand how to pursue design approvals from the AHJ when incorporating PBD Analysis in the design. 3. The Participant will gain the understanding of the steps required when pursuing compliance through the use of a PBD approach.

RJA 93 MSBC 7th Edition – Chapters 10 & 34

(1 LU) This presentation reviews some of the major differences between the International Building Code (IBC) and the newly adopted 7th Edition of the Massachusetts Building Code. This presentation is designed to cover Chapters 10 & 34 of the new Massachusetts State Building Code. While the major topics of each chapter are introduced, a substantial focus of the presentation is on Use Group A, B, and H occupancies. The goal of the presentation is to educate the user on the application of the code requirements contained within each chapter.

RJA 94 2008 NYC Building Code – Fire Protection Requirements

(2 LU) This program will review the new fire protection requirements in Chapter 7 – Fire-Resistance-Rated-Construction and Chapter 9 – Fire Protection Systems. After attending this presentation, attendees will be able to:

- understand the various types of fire-resistance-rated construction required by the code
- understand the conditions that require installation of automatic fire extinguishing systems
- understand the conditions that require installation of fire alarm systems