

## **Smoke Control Course I: Fundamentals and Pressurization Systems**

### **Course Objectives**

This one-day course addresses the fundamentals of smoke control, including the underlying principles of smoke control, a discussion of air moving equipment and systems, stairwell pressurization, elevator smoke control, zoned smoke control, automatic controls, and commissioning. Methods of design analysis of pressurization smoke control systems are addressed, including network computer modeling using CONTAM. Zone fire models are also addressed. A case study of pressurization smoke control is included.

### **Learning Objectives**

Upon completion of this course participants should be able to:

- Understand the codes and standards that define the design of smoke control systems
- Learn how fire suppression and smoke control systems are integrated
- Identify at least four design considerations for smoke control systems

### **Pre-requisite**

### **Materials Needed**

Participants should bring with them the *Handbook of Smoke Control Engineering* (2012).

### **Who will benefit: Level Beginner**

This seminar is intended for fire protection engineers and mechanical engineers who design smoke control systems. It is for both beginning engineers and experienced engineers who need to be up to date with the advances in this technology. The seminar will also benefit design project managers, manufacturers of equipment for air moving systems and code officials who need an understanding of this technology.

### **Course assessment**

Participants will be assessed via a written test. A passing score of 70% is required to obtain a Certificate of Completion.

### **Professional Development Hours**

Upon completion each participant qualifies for 8 PDHs or .8 CEUs. A Certificate of Attendance will be awarded.