

Principles of Fire Protection Engineering

The Principles of Fire Protection Engineering course consists of 10 sessions over a total period of four days. The sessions involve the following engineering educational subject areas:

- 1. Combustion and Ignition Phenomenon** - Theories of diffusion flame combustion, fire dynamics, suppression theory, and suppression agents.
- 2. Fire Endurance Evaluation** - Review of the development and application of standard and innovative fire endurance test procedures for building assemblies including doors, windows, walls, floors, and ceilings.
- 3. Construction and Structural Features** - Performance of basic construction materials in the fire environment. The fire compartment involvement process and the concept of designing building compartmentalization.
- 4. Materials Applications** - Evaluation procedures for flame spread, smoke production, and toxicity of interior finish, floor coverings, and furnishings.
- 5. Fire Protection Design Evaluation** - Procedures for the evaluation of fire safety. Smoke management systems design principles and evaluation techniques.
- 6. Life Risk Analysis** - Human tenability limits. Human behavior variables in fire incidents including convergence clusters, social inhibition-facilitation, altruistic, and non-adaptive actions.
- 7. Detection and Alarm Systems** - Review of the types of detectors and the laboratory evaluation test procedures. Reliability and installation design characteristics.
- 8. Sprinkler System Developments** - Characteristics of design and approval of the various types of sprinklers and water mist nozzles with application implications.
- 9. Design of Water Suppression Systems** - Design of sprinkler and water mist systems with review of standard procedures and innovative research applications.
- 10. Egress and Exits** - Basic theoretical code concepts with examination of egress components and design variables.

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July 24-27, 2006
New Brighton
(Minneapolis),
Minnesota

SPONSORED BY THE
INTERNATIONAL FIRE
MARSHALS ASSOCIATION,
SOCIETY OF PROTECTION
ENGINEERS AND THE
FIRE MARSHALS ASSOCIATION
OF MINNESOTA

The Fire Marshals Association of Minnesota (FMAM), in conjunction with the International Fire Marshals Association and the Society of Fire Protection Engineers are offering the Principles of Fire Protection Engineering course on July 24-27, 2006 in New Brighton, MN.

The Principles of Fire Protection Engineering course is open to all individuals interested in gaining or refreshing their basic to intermediate knowledge of the principles of fire protection engineering. Who should attend - individuals that have design, enforcement, or advisory responsibilities, fire protection engineers, architects, fire prevention personnel and others concerned with fire protection. The course will cover the 10 subjects outlined on the inside cover.

You are responsible for your travel and lodging expenses. There are no refunds on cancellations within 30 days of the scheduled course date. FMAM and IFMA reserve the right to cancel courses due to limited registration.

Classes will be held at the following location.

July 24-27, 2006
New Brighton Public Safety Training
Center
785 Old Highway 8 NW
New Brighton, MN 55112

All registrations should be sent to the address below.

For additional information contact:

Fire Marshals Association of Minnesota
c/o Jon Nisja
678 Pinewood Drive
Shoreview, MN 55126
Email: jonnisja@comcast.net
or
www.fmam.org or www.nfpa.org/ifma

Below are some area hotels that are in close proximity to the course location. No room blocks have been set up.

AmericInn Mounds View (1.5 miles north)
2200 Hwy 10
Mounds View, MN 55112
763-786-2000

Days Inn (1.5 miles north)
2149 Program Drive
Mounds View, MN 55112
763-786-9151

Country Inn & Suites (2 miles southeast)
2905 Snelling Avenue North
Roseville, MN 55113
651-628-3500

Courtyard by Marriott (1.5 miles south)
2985 Centre Pointe Drive
Roseville, MN 55113
651-746-8000

Fairfield Inn by Marriott (1.5 miles south)
3045 Centre Point Drive North
Roseville, MN 55113
651-636-7869

FMAM Principles of Fire Protection Engineering Registration Form (please print or type)

Name: _____

Title: _____

Organization: _____

Address: _____

City: _____ State: _____

Zip: _____

Phone #: _____ Fax #: _____

FMAM/IFMA Member

Enclosed is a check for the registration fee.
Please make checks payable to FMAM

Please enroll me in the July 24-27, 2006, Minnesota Principles Course, registration fee of \$250 member, \$200 for three or more members, \$350 nonmember.

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