



Institution of Fire Engineers (Singapore Branch)



National Fire Protection Association
The authority on fire, electrical, and building safety

NFPA SEMINARS **30 May – 7 June 2013**

NFPA 101: Life Safety Code

30th & 31st May 2013

NFPA 13: Installation of Sprinkler Systems

3rd & 4th June 2013

NFPA 20: Fire Pumps

5th June 2013

NFPA 72: National Fire Alarm Code

6th & 7th June 2013

Supported By:



Fire Safety Managers' Association
Singapore





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Many Architects and Engineers in the region are engaging in new overseas projects, particularly in Middle East and India where the AHJs there are adopting NFPA Standards as the local Fire Standards. Compliance with NFPA Standards is also made mandatory by MNC Clients and their Insurers for significant projects in Singapore and regional countries. Once again, IFE, Singapore and NFPA are working together to bring the NFPA training to your doorsteps. The requirements of the latest NFPA Standards, eg NFPA 101, NFPA 13, NFPA 72 and NFPA 20 will be covered in these seminars.

WHO SHOULD ATTEND

NFPA 101 - Anyone concerned with life safety compliance including facility managers, inspectors, safety directors, engineers, architects, designers, risk managers, facility consultants, insurance underwriters and project managers.

NFPA 13 & 20 – Anyone who designs, reviews, or evaluates sprinkler systems and anyone who are involved with the specification, design, installation, maintenance, or approval of fire pumps including: engineers, plan reviewers, designers, installers, maintenance personnel, inspectors, manufacturers, insurance underwriters, contractors, facilities professionals, and project managers.

NFPA 72 - Anyone concerned with Fire Alarm Code compliance including facility managers, inspectors, safety directors, engineers, architects, designers, risk managers, facility consultants, insurance underwriters, project managers and the local authority.



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SEMINAR OUTLINE

NFPA 101 – LIFE SAFETY CODE

30th & 31st May 2013

Get the tools you need to apply the code with confidence through this 2-day seminar. You can ensure your organization is in compliance and make certain the people in your facility are safe during any emergency with this important seminar. Upon completion you should be able to:

- Discuss code requirements particular for new buildings
- Describe the concept of performance based options
- Explain hazard of contents
- Define the three parts of means of egress
- Apply provisions for doors, stairs, smoke-proof enclosures, horizontal exits, ramps, exit passageways, and more
- Calculate occupant load of a given space using appropriate occupant load factors
- Measure the egress capacity of a component of the means of egress system as well as the entire system
- Use concepts of accessible means of egress and areas of refuge
- Determine the need for, and minimum requirements applicable to illumination, emergency lighting, and egress marking
- Recognize specific fire protection systems and the appropriate reference standards
- Identify and apply the requirements for protection of vertical openings and for hazardous areas
- Interpret the core chapters and the occupancy specific requirements for special structures and high-rise buildings
- Employ provisions for building services including utilities, HVAC, smoke control, elevators and escalators, and rubbish and laundry chutes
- Occupancy related requirements particularly for Healthcare, Mercantile and Hotel will be covered.



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NFPA 13 – INSTALLATION OF SPRINKLER SYSTEMS **3rd & 4th June 2013**

Properly installed sprinkler systems reduce both damage and loss of life in building fires by up to 67 percent. This seminar will effectively illustrate the concepts and requirements for automatic sprinkler systems and how they apply to specific hazards. Upon completion you should be able to

- Define the organization of NFPA 13 and its general requirements
- Ascertain the hazard classification for an occupancy
- Identify and discuss the requirements for various sprinkler system components
- Recognize the different types of sprinkler systems and be familiar with their operation
- Establish installation requirements for the various types of sprinklers
- Apply the requirements for system hanging and seismic bracing
- Appraise various system design requirements including: occupancy hazard fire control,
- protection of storage occupancies, and protection of special hazards.
- Determine the requirements for system design and installation deliverable including: plans
- and calculations, water supply data, and system acceptance certification



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NFPA 20 – FIRE PUMPS **5th June 2013**

Fire Pumps

Sprinkler and standpipe systems are effective only if fire pumps can deliver when they're needed. This seminar will provide you with effective strategies to ensure a reliable response. This seminar will prepare you to work on the full range of fire pumps, armed with the latest industry knowledge. Upon completion you should be able to

- Recognize different types of fire pumps and their applications
- Use graphical determinations of fire pump output
- Differentiate between electric and diesel drivers and controllers
- Identify the correct application and installation of fire pumps components
- Evaluate various types of power sources and the requirements for each
- Assure continuity of power
- Describe the difference between National Electrical Code requirements and NFPA 20 requirements
- Commission fire pumps and related equipment
- Determine the appropriate tests, required equipment, and correct test procedures
- Assess fire pump test data



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NFPA 72 – NATIONAL FIRE ALARM CODE **6th & 7th June 2013**

Heightened risk awareness and changing safety dynamics have revolutionized the role of alarm and signalling systems in protecting life and property. At the same time, sophisticated technical advances and solid research findings have improved their ability to meet the new demands. It is in response to and out of this dynamic environment that the 2013 edition of *NFPA 72: National Fire Alarm Code* has emerged.

- Technology- and research-driven changes offer improved egress time and system reliability.
- Develop at the request of the US Air Force, a new Mass Notification Systems Annex provides guidelines to facilitate fast, safe evacuation in emergency situations such as fire, terrorist attack, biological and hazardous chemical incidents, accidents, and natural disasters
- Added requirements for new technology equipment, including video image smoke and flame detection, detectors that use multiple sensing inputs, fire extinguisher monitors, and directional appliances
- New guidance on visual notification in large space occupancies
- Updated rules for spacing of smoke detectors in joist and beam and small room applications
- New requirement to provide a Response Time Index for heat detectors
- New provision for strobe synchronization when installing visible notification appliances
- New requirements for household fire warning applications, including smoke alarms with voice and expanded smoke alarm coverage for larger size homes
- Changes in NFPA 72, 2013 will be covered

Speaker's Profile

**Mr William E Koffel,
P.E. President, Koffel Associates**



Mr Koffel is a Registered Professional Engineer in USA and an authorized trainer of NFPA. He sits on the Board of Directors for AFAA, and SFPE and was President of SFPE in 2003. His speciality fields are fire protection systems, analysis, design, testing and maintenance, building, life safety and fire code analysis, product research and testing, forensic engineering, etc. He also participates in the codes and standards development processes.

His major projects and activities include conducting licensure, certification, accreditation and engineering surveys, provide engineering support for the design of fire protection improvements and systems, fire protection engineering and code consulting services for new construction and renovation projects, etc.

REGISTRATION FEES

	1Day NFPA20 Package A	2Day NFPA 101 Package B	2Day NFPA 13 Package C	2 Day NFPA 72 Package D	Package A + B or C	Package B + C or D	Package A+B+C+D
IFE/NFPA Members	SGD\$400	SGD\$900	SGD\$800	SGD\$600	SGD\$1,100	SGD\$1,500	SGD\$2,200
Supporting Organisations	SGD\$450	SGD\$990	SGD\$900	SGD\$720	SGD\$1,250	SGD\$1,700	SGD\$2,500
Non Members	SGD\$500	SGD\$1,100	SGD\$1000	SGD\$800	SGD\$1,350	SGD\$1,900	SGD\$2,800

Seminar package includes daily lunch and 2 tea breaks with snacks. Each participant will receive Course Materials, a Certificate of Attendance and a latest copy of NFPA 101 for the Life Safety Code seminar, a latest copy of NFPA 13 for the Sprinkler Seminar, a latest copy of NFPA 20 for the Fire Pump Seminar and a latest copy of NFPA 72 for the National Fire Alarm Code Seminar.

Class size is Limited to 50 persons only! Registration will be on first come first serve basis.

SEMINAR VENUE

ParkRoyal Hotel
181 Kitchener Road
Singapore 208533

Seminars Registration Form

Please register the following delegate(s) for the Seminars by ticking the appropriate box. *(Please photocopy for more delegates)*

Package A Package B Package C Package D

Package A +B OR C Package B + C OR D Package A+B + C +D

Mr/Ms/Engr/Dr _____

Organisation: _____ Designation: _____

Address: _____ Singapore _____

NRIC NO: _____ Telephone: _____ Fax: _____ HP: _____

E-mail: _____

IFE/NFPA Member (Membership No. _____)

Member of Supporting Organisation (_____)

Non-Member

Signature: _____ Date: _____

Enclosed cheque no: _____ Bank: _____ Amount: S\$ _____

Cheque to be made payable to "The Institution of Fire Engineers".

Please return form with payment to:

The Secretariat

The Institution of Fire Engineers (Singapore Branch)

32 Ang Mo Kio Industrial Park 2

#07-06, Sing Industrial Complex

Singapore 569510

Tel: +65 63389274 Fax: +65 64814066

Email: ifespore@singnet.com.sg

Closing Date for Registration:

Thursday, 23 May 2013

The Organiser reserves the right to alter the programme without giving prior notification.