

IFE-NFPA WORKSHOPS



Jointly organized by
**The Institution of Fire Engineers,
Singapore Branch &
National Fire Protection Association, USA**



**NFPA 101: Life Safety Code
September 27 & 28, 2010**

**NFPA 13: Installation of Sprinkler Systems
September 29 & 30, 2010**

**NFPA 20: Fire Pumps
October 01, 2010**

**Venue: Novotel Clarke Quay, Singapore
(Phoenix Ballroom I)
Time: 9.00 am to 5.00 pm**

**Workshop Presenter – Mr William E Koffel, P.E., President, Koffel Associates
Authorised Trainer of National Fire Protection Association, USA**

Professional Engineers Board, Singapore (PEB) awarded
NFPA 101 (14 PDU Points) , NFPA 13 (14 PDU Points) and NFPA 20 (4 PDU Points)

Singapore Civil Defence Force (SCDF) awarded
NFPA 101 (5 CPD Points) , NFPA 13 (5 CPD Points) and NFPA 20 (3 CPD Points)

Singapore Institute of Architects (SIA) awarded
NFPA 101 (4 CPD Points) , NFPA 13 (2 CPD Points) and NFPA 20 (2 CPD Points)

Singapore Institution of Safety Officers (SISO) awarded
NFPA 101 (14 CPD Points) , NFPA 13 (14 CPD Points) and NFPA 20 (7 CPD Points)

Supported by:



The Institution of Engineers
Singapore



Association of Consulting
Engineers, Singapore



Singapore Institute
of Architects



Fire Safety Managers'
Association (Singapore)

Workshop package includes daily lunch and 2 tea breaks with snacks. Each participant will receive Course Materials, a Certificate of Attendance and a copy of NFPA 101 (2009) for the Life Safety Code workshop, a copy of NFPA 13 (2010) for the Sprinkler Workshop and a copy of NFPA 20 (2010) for the Fire Pump Workshop.

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 of 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 (2009), NFPA 13 (2010) and NFPA 20 (2010) will be covered in these workshops.

WORKSHOP OUTLINE

NFPA 101 – LIFE SAFETY CODE

27 & 28 SEPTEMBER 2010

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

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 need for 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 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

NFPA 13 – INSTALLATION OF SPRINKLER SYSTEMS

29 & 30 SEPTEMBER 2010

Properly installed sprinkler systems reduce both damage and loss of life in building fires by up to 67 percent. This workshop 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 deliverables including: plans and calculations, water supply data, and system acceptance certification

NFPA 20 – FIRE PUMPS

01 OCTOBER 2010

Fire Pumps

Sprinkler and standpipe systems are effective only if fire pumps can deliver when they're needed. This workshop will provide you with effective strategies to ensure a reliable response. This workshop 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

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 specialty 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.

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.

REGISTRATION FEES

	1-Day NFPA 20 Oct 01	2-Day NFPA 101 Sep 27 & 28	2-Day NFPA 13 Sep 29 & 30	3-Day NFPA 13/20 Sep 29 to Oct 01	4-Day NFPA 101/13 Sep 27 to 30	5-Day NFPA101/13/20 Sep 27 to Oct 01
IFE/NFPA Members	S\$400	S\$900	S\$800	S\$1,000	S\$1,500	S\$1,800
Supporting Organisations	S\$450	S\$990	S\$900	S\$1,170	S\$1,710	S\$2,070
Non-Members	S\$500	S\$1,100	S\$1,000	S\$1,300	S\$1,900	S\$2,300

Workshop Registration Form

IFE-NFPA WORKSHOPS

27th SEPTEMBER to 01st OCTOBER 2010

Registration Fees:

	1-Day NFPA 20 Oct 01	2-Day NFPA 101 Sep 27 & 28	2-Day NFPA 13 Sep 29 & 30	3-Day NFPA 13/20 Sep 29 to Oct 01	4-Day NFPA 101/13 Sep 27 to 30	5-Day NFPA101/1 3/20 Sep 27 to Oct 01
IFE/NFPA Members	S\$400	S\$900	S\$800	S\$1,000	S\$1,500	S\$1,800
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Non-Members	S\$500	S\$1,100	S\$1,000	S\$1,300	S\$1,900	S\$2,300

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

- | | |
|--|--|
| <input type="checkbox"/> 1-Day Workshop on NFPA 20
<input type="checkbox"/> 2-Day Workshop on NFPA 13
<input type="checkbox"/> 4-Day Workshop on NFPA 101 & 13 | <input type="checkbox"/> 2-Day Workshop on NFPA 101
<input type="checkbox"/> 3-Day Workshop on NFPA 13 & 20
<input type="checkbox"/> 5-Day Workshop on NFPA 101, 13 & 20 |
|--|--|

Mr/Ms/Engr/Dr _____

Organization: _____ Designation: _____

Address: _____ Singapore _____

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

HP: _____ E-mail: _____

- IFE/NFPA Member (Membership No. _____)
 Member of Supporting Organization (_____)
 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
 89 Short Street #02-15
 Golden Wall Centre, Singapore 188216
 Tel: +65 63389274 Fax: +65 63366175
 Email: ifesore@singnet.com.sg

Closing Date for Registration:

Wednesday, 13 Sep 2010

The Organizer reserves the right to alter the program without giving prior notification.

HOTEL ACCOMMODATION FOR IFE-NFPA WORKSHOPS

At

Novotel Clarke Quay Singapore

177A River Valley Road

Singapore 179031

10 superior rooms have been reserved from 26 Sep 2010 to 2 Oct 2010 and these rooms will have to be booked by 1st September 2010. Otherwise they will be released to another party.

Room Rate: Sunday, 26 Sep 2010

S\$455.00++ per room per night (Inclusive of 1 American Buffet Breakfast at The Square)

Monday, 27 Sep 2010 – Saturday, 2 Oct 2010

S\$258.00++ per room per night (Inclusive of 1 American Buffet Breakfast at The Square)

I wish to book _____ superior rooms for the period _____ to _____.

Name: _____

Name of Company: _____

Address: _____

Tel No: _____ (O) _____ (HP) E-mail: _____

The following is my credit card details:

Name: _____

Credit Card No: _____ (Visa/Master Card/Amex)

Date of Expiry: _____