

IFE-NFPA WORKSHOPS



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



NFPA 72: National Fire Alarm Code®
September 29 & 30, 2009 (9am to 5pm)

**NFPA 130: Standard on Fixed Guideway Transit and
Passenger Rail Systems**
**October 1, 2009 (9am to 5pm) &
October 2, 2009 (9am to 1pm)**

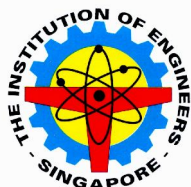
Venue: Suntec Singapore (Room 201, Level 2)
1 Raffles Boulevard, Suntec City, Singapore 039593

Workshop Presenter:

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

Participants will receive relevant course materials, a copy of the respective NFPA Standards, Certificate of Attendance & respective professional development Credits from Professional Engineers Board, Singapore Institute of Architects & Ministry of Manpower. *Workshop package includes daily lunch & 2 tea breaks with snacks for full day session and 1 tea break with snacks for half day session.*

Supported by:



The Institution of Engineers
Singapore



Association of Consulting
Engineers, Singapore



Singapore Institute
of Architects

Many Architects and Engineers in the region are engaging in new overseas projects, including developments of mass rapid transit or subway system in major cities, particularly in Asia Pacific, 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, mass rapid transit or subway authorities 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, i.e. NFPA 72 (2010) and NFPA 130 (2007) will be covered in these workshops.

WORKSHOP OUTLINE

Stay on the leading edge of alarm system advances with the 2010 NFPA 72®!

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 2010 edition of *NFPA 72: National Fire Alarm Code®* has emerged.

Technology- and research-driven changes offer improved egress time and system reliability.

- Developed at the request of the U.S. 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 provisions 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, 2010 will be covered

Get the inside track on safety for rail systems in NFPA 130!

NFPA 130 specifies fire protection and life safety requirements for underground, surface, and elevated fixed guideway transit and passenger rail systems including stations, trainways, vehicles, vehicle maintenance and storage areas.

Keep up with revisions in the 2007 edition that increase safety including:

New requirements for electrical conductor protection in stations, trainways and ventilation systems

- Recognition of fire resistive cables
- Changes to egress design requirements and calculations of occupant loads
- New requirements for electronic operated fare collection equipment

Reorganization of Chapters 5 for consistency throughout the document and restructuring of Chapter 6 based on components rather than trainway location

- Complete revision of the Performance Based Vehicle design criteria and Annex Material
- Revisions to the requirements for rail vehicle fire resistance tests and procedures
- New Annex D on Rail Vehicle Fires
- New categories for tunnels and material for determining the classification

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.

PROFESSIONAL DEVELOPMENT CREDITS & COURSE MATERIAL ELIGIBILITY

Professional Development Credit	NFPA 72 Workshop	NFPA 130 Workshop
1. Professional Engineers Board	14	11
2. Singapore Institute of Architects	2	4
3. Ministry of Manpower	0	5
Free NFPA Standard	A copy of NFPA 72-2010 (pre public release version)	A copy of NFPA 130 –2007

WHO SHOULD ATTEND

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.

NFPA 130 – Anyone who designs, reviews, or evaluates fire and life safety for rail systems as well as fire and life safety in tunnels and bridges and anyone who are involved with the specification, design, installation, maintenance, or approval of rail systems, tunnels and bridges including: engineers, plan reviewers, designers, installers, maintenance personnel, inspectors, manufacturers, insurance underwriters, contractors, facilities professionals, and project managers.

REGISTRATION FEES (in Singapore Dollars)

	2-Day NFPA 72 Sep 29 & 30	1½-Day NFPA 130 Oct 1 & 2	3 1/2-Day NFPA 72/130 Sep 29 to Oct 2
IFE/NFPA Members	SIN\$600	SIN\$400	SIN\$ 900
Supporting Organisations	SIN\$720	SIN\$495	SIN\$1,080
Non-Members	SIN\$800	SIN\$550	SIN\$1,200

Workshop Registration Form

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29 SEPTEMBER TO 2 OCTOBER 2009

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Please register the following delegate(s) for the Workshop by ticking the appropriate box.

(Please photocopy for more delegates)

2-Day Workshop on NFPA 72

1½-Day Workshop on NFPA 130

3½-Day Workshop on NFPA 72 & 130

Mr/Ms/Engr/Dr _____

Organisation: _____ Designation: _____

Address: _____

NRIC/Passport No: _____ Telephone: _____ Fax: _____

HP: _____ E-mail: _____

IFE/NFPA Member (Membership No. _____)

Member of Supporting Organisation (_____)

Non-Member

Signature: _____ Date: _____

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

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: ifespole@singnet.com.sg

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

Closing Date for Registration:

Tuesday, 22 Sep 2009