



# FIRE SAFETY AND SHELTER SEMINAR

## Date & Time:

Session I - 12<sup>th</sup> Oct 2005  
Session II - 13<sup>th</sup> Oct 2005  
Session III - 14<sup>th</sup> Oct 2005

Session : 1430 hours to 1730 hours

- \* Repeated topics for session I, II & III
- \* Registration commences at 1345 hours

**Venue:** HQ SCDF  
Auditorium (3<sup>rd</sup> storey)  
91 Ubi Avenue 4  
Singapore 408827

**Fee:** \$25.00 per person per session  
(Inclusive of GST and refreshments)

**Participant who wish to have the seminar material are to download online, it will be available only after the seminar.**

## Registration:

**You may REGISTER at the customer service counter (at the above-mentioned venue) or Cut and paste the underlined link to access the web page for **eRegistration:****  
[http://www.scdf.gov.sg/html/services/ser05\\_courses.html](http://www.scdf.gov.sg/html/services/ser05_courses.html) . Please read the registration procedure, terms and condition carefully during registration. Do register early to avoid disappointment.

## Objective of Seminar :

To provide an update on the latest fire safety requirements.

**Duration:** 3 hours per session

## Who should attend:

Qualified Persons (Registered Architects and Professional Engineers), Fire Safety Products Suppliers, Fire Safety Managers, Interior Designers, etc.

- CPD points accredited by PE Board : 3 points
- CPD points accredited by BOA: 4 points
- Letter of attendance will be issued to the participant.

**For Enquiry:** Lta Tan Chung Yee Tel: 68481450  
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**Closing Date:** 7<sup>th</sup> October 2005



## Paper for Fire Safety and Shelter Seminar

### FIRE SAFETY & SHELTER SEMINAR

12, 13 & 14 October 2005

Title, CVs & Synopsis

#### Paper 1

**Title:** Staircase Storey Shelters - Case Studies and Updates

**Speaker:** CPT Keith Ting

**CV:** CPT Keith Ting deals with Special Installations in the Shelter Operation & Management Branch of FSSD. Besides dealing with sheltering for key installations, he provides consultation on CD shelter design requirements and processes shelter waiver applications. CPT Keith Ting was a Rota Commander of the Tuas Fire Station before he joined the FSSD.

**Synopsis:** This presentation will cover 3 parts, and is primarily aimed at rationalizing and explaining the key design requirements for staircase storey shelters, a variation of the storey shelter concept introduced in July 2004. The first part showcases a few case studies on the way architects go about designing Staircase Storey Shelters (SSS). The difficulties that they faced would be highlighted and the required design changes would be discussed. The second part focuses on the roles and responsibilities of the Building Management Committee in carrying out shelter conversion during a tension period. The SSS door notice would also be introduced, to educate residents on the proper usage of the SSS. The third and final part of the presentation will focus on the common non-compliances found in shelter plan submissions and shelter commissioning. This will provide useful feedback to QPs.

#### Paper 2

**Title:** Additional Information about Control Measures on Petroleum and Flammable Materials

**Speaker:** CPT Tan Kim Haw

**CV:** CPT Tan Kim Haw is the Enforcement Team Leader in the Certification and Enforcement Branch of Fire Safety and Shelter Department. Prior to his posting to current appointment, CPT Tan was a key resource officer in Hazmat Branch of Operations Department for 4½ years, involved in planning and coordinating ground units' (fire stations) response to any

Hazardous Material emergencies in Singapore. He played the important role of vetting both the Emergency Response Plans (ERP) and Transport Emergency Response Plans (TERP) for the industries.

**Synopsis:** The Fire Safety (Petroleum and Flammable Materials) Regulations 2005 has come into operation on 16 February 2005. This paper will highlight the critical licensing requirements for the import, storage and transport of the petroleum and flammable materials. It will also present the common problems encountered by the industries and feedback received from them during the consultations and dealing with the industries' applications. This will serve to highlight to the industries the pertinent problems and issues to look out for and explain the rationale of the provisions in the regulations.

### **Paper 3**

**Title:** Impending Changes in the Guidelines for Conservation Buildings

**Speaker:** CPT Choh Choon Jin

**CV:** Cpt Choh Choon Jin is currently the Enforcement Team Leader of Certification & Enforcement Branch of FSSD. Prior to this, he was the Head of Commercial Section of Fire Safety Consultation Branch. His main duties include auditing of major plans and providing consultation to the QPs and public. He has vast experience in providing consultation services to QPs on commercial and other development projects. He was also key to drafting and reviewing of several guidelines on fire safety; two that are of significant effort from him are those on Mass Rapid Transit Systems and Conservation Buildings.

**Synopsis:** The current set of guidelines for fire safety requirements affecting shophouses under conservation was published in 1993. The intention then, of publishing this set of guidelines were to provide minimum fire safety requirements for such buildings. QPs were still expected to discuss with FSSD in areas where the fire safety requirements were not covered within the scope of the guidelines. Therefore, it is timely that we revisit this set of guidelines with the aim of updating it and incorporating more details to make it clearer, so that it can provide a more comprehensive guide for the QPs in designing such buildings.

## Paper 4

**Title:** Passive Fire Protection in Building Structures

**Speakers:**

Mr Chan Hong Meng,

Cpt Rachel Wong

**CV:** Mr Chan Hong Meng graduated with B. Sc (Chemistry) from the Nanyang University in 1972. He has been working with SCDF since the formation of Fire Safety Bureau in Feb 1985. Currently, he is the Head of Residential & Others Section, Fire Safety Consultation Branch. He also provides consultations to QPs and owners/developers on fire safety matters, in particular, to residential and institutional developments in Singapore.

CPT Rachel Wong is currently the Senior Fire Consultant with the Residential & Others Section of Fire Safety Consultation Branch. She graduated with B. Sc (Building) from NUS.

**Synopsis:** The paper deals with the proper use of passive fire protection systems for protection to elements of structure in buildings, particularly for steel structures. The key points included in this paper are as follow:

- a. information on the criteria of fire test and other non-fire tests (i.e. impact, weathering, etc) to determine the fire resistance performance of passive fire protection systems; and
- b. correct method of installation/application of the various passive fire protection systems to ensure their integrity in protecting the elements of structure, in particular, steel members.

## Paper 5

**Title:** CORENET e-Submission – Typical problems encountered and pitfalls to avoid

**Speaker :** Maj Lim Lam Kwang

**CV:** As Head Commercial Section in FSSD, Maj Lim is the officer in-charge of all fire safety matters relating to commercial developments in Singapore. This includes fire safety requirements for conservation buildings and rapid transit systems. He has been involved in research projects involving the use of computer simulations to validate the fire code's requirements.

**Synopsis:** Arising from the implementation of the CORENET e-Submission in 2002, FSSD has experienced a rapid increase in the number of electronic plan submissions from QPs. This paper highlights typical problems encountered by QPs when making e- submissions of fire safety plans and also the dos & don'ts, which the QPs must know in order to avoid rejection.

## Paper 6

**Title :** Latest Update to the Fire Code 2002

**Speaker :** Mr Teo Lim Teck

**CV:** Mr Teo is an experienced senior staff in FSSD. He has been the Secretary of the FSSD Standing Committee since 1986. He presented several papers on the proposed changes to the 1997 and 2002 Fire Codes in the FSSD seminars. He is better known for his role as the chief editor for the Fire Precautions in Buildings 1997 and 2002 editions. Currently, he is working on the review of the Fire Code 2002.

**Speaker :** Tan Eu Seng, Randy

**CV :**Mr Randy Tan has presented several papers on Fire Code updates in FSSD seminars, as he has been involved in the process of the fire code reviews in the past. He plays an active role in the producing of the six volumes of Fire Code Handbooks and the latest eight volumes of Fire Precaution in Buildings 2002. Currently, he is member of the Fire Code 2002 Review Committee and a Plans Audit Officer in Fire Safety Consultation Branch of FSSD

**Synopsis** : In our ever changing environment, there is a need to review the Fire Code to meet future changes and challenges to the building industry. The review of the Fire Code 2002 is currently on-going with the participation of the representatives from the professional and tertiary institutions, related government agencies and the building sector. This paper is intended to inform and obtain feedback from the building industry of the proposed changes / amendments to the current Fire Code 2002 that has been approved by the Fire Code Review Committee.