



**SCDF**  
The Life Saving Force  
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# KEY AMENDMENTS TO FIRE CODE

The half-day seminar on key amendments to the fire code, held annually, is a pivotal event for professionals in fire safety and building design, focusing on the latest updates to fire regulations.

This seminar provides a comprehensive overview of significant changes to the fire code, addressing the industry's need for current information and understanding of new standards. It plays a crucial role in discussing common consultation queries, where participants can gain clarity on challenging aspects of the fire code, ensuring a uniform application of the regulations across projects.

Additionally, the seminar sheds light on common audit findings, highlighting areas where compliance often falls short and offering guidance for improvement. A special session on the fire safety of electrical transformers in underground structures offers targeted insights into managing these high-risk areas effectively. A notable inclusion is the implementation of Fire-Smoke Dampers according to Form SS333 to COC, highlighting new compliance requirements.

This seminar serves as an essential conduit for professionals to enhance their understanding, improve submission quality and ensure adherence to the latest fire safety standards.

## SPEAKERS



**MAJ Muhammad Izwan Bin Ibrahim**  
Senior Consultant  
Singapore Civil Defence Force (SCDF)



**CPT Joyce Ng**  
Consultant  
Singapore Civil Defence Force (SCDF)



**Er. Simon Lee**  
Director  
Bescon Consulting Engineers Pte



**Er. Yee Poh Kin**  
Principal  
New Universal Solutions



**15 May 2024 (Wed)**  
**1.30pm - 5.30pm**



**HDB Auditorium**  
**480 Lorong 6**  
**Toa Payoh,**  
**Singapore 310480**



**\$87.20 (IES Members)**  
**\$109.00 (CIJC Members /**  
**IFE Members)**  
**\$130.80 (Non Members)**

**\*Fees include 9% GST**

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**+65 6461 1222**



**shelly.ng@iesnet.org.sg**

# Speakers and Synopsis



## Fire Code Amendments

The speaker will discuss the recent updates to the Fire Code within the Code of Practice for Fire Precautions in Buildings. These updates encompass a range of new provisions, clarifications, and relaxations pertaining to the current clauses of the Fire Code.

## Common Consultation Queries

The speaker will delve into the frequent consultation questions that the Singapore Civil Defence Force (SCDF) encounters during their consultation sessions. These queries often cover topics such as the submission process for SCDF approval, interpreting clauses of the Fire Code, understanding the scope of Qualified Person's (QP) responsibilities in alteration and addition (A&A) works, among others.

***MAJ Muhammad Izwan is a Senior Consultant with 11 years of experience in the Fire Safety Department (FSD) of the Singapore Civil Defence Force.***

***He provides consultations and guidance to Qualified Persons (QPs) on prescriptive fire safety requirements.***

***He is also the Secretariat for the review committee of the Code of Practice for Fire Precautions in Rapid Transit Systems (CPFPTS).***



## Common Audit Findings (Non - Residential)

Fire safety plans certified by Qualified Persons and submitted to SCDF for approval are subject to audit checks. Captain Joyce will discuss the typical non-compliances identified during SCDF audits for commercial and industrial projects.

Additionally, she will highlight key areas that Qualified Persons should pay attention to in order to enhance the quality of their submissions.

***CPT Ng obtained her M.Arch from NUS in 2015. She has been a consultant with the Industrial and Institution Design Branch since 2021.***

***Her role involves processing waivers, auditing plans, and conducting site inspections.***



## Fire Safety of Electrical Transformers in Underground Structures

As Singapore drives optimisation of land use, more and more electrical substations are being located in underground structures to make way for ground level connectivity and higher economics value usage such as commercial and F&B units.

It is important for building owners, architects and consulting engineers are aware of the fire risk associate with oil-filled transformers in underground structures. The presentation covers the fire risk and mitigation measures for underground 22kV/400V and 6.6kV/400V oil-filled transformers, as these constitute bulk of the distribution transformers installed in Singapore.

The SCDF had issued on 1 Sep 2022 the fire safety requirements for electrical transformer room in underground structures under 11th batch of amendment to the Fire Code 2018. The amendment in fire safety requirement is mandatory from 1 Mar 2023.

***ER. Simon Lee is currently the Director of Bescon Consulting Engineers Pte and a member of SCDF Fire Standing Committee, SCDF review committee for FPRTS and Fire Code workgroup for underground substation.***

***He has a degree in Electrical Engineering and Master of Science in Electrical Engineering, and EMA Licensed 22kV switching engineer with 28 years experience as M&E consultant. He is also a IES Council member, IES M&E TC Chairman, QEC chairman and Asean Federation of Engineering Organisation Honorary member.***



## Implementation of Fire-Smoke Damper- Form SS333 to COC

His presentation will touch on the differences between the fire damper, smoke damper, and fire-smoke damper, as well as the critical role of fire-smoke dampers in bolstering fire safety within buildings.

It will elucidate the operational mechanisms of fire-smoke dampers, the testing procedures, and the surveillance window for the issuance of the Certificate of Conformity (COC) listed in Table 11A - List of Regulated Fire Safety Product Materials

***Er. Yee Poh Kin, Principal of New Universal Solution, boasts over three decades of extensive experience in fire engineering consultancy. Currently serving as a member of the SCDF Fire Code Review Committee and Fire Safety Committee. Additionally, Er. Yee holds key roles such as convener for Enterprise Singapore's working group reviewing SS 489- Specification for Fire Shutters and member of working groups for SS333- Specification for Fire Damper and SS578- Code of Practice for Use and Maintenance of Portable Fire Extinguishers.***

***He serves as the Vice President of the Institution of Fire Engineers (IFE) Singapore and is a Committee Member in the Institution of Engineers Singapore (IES) and the Fire Safety Managers' Association Singapore (FSMAS).***