

... for a safer Singapore



https://go.gov.sg/fseworkshop1july20 22



Fire Safety Engineer (FSE) Workshop

Friday 1st July 2022 from 9:30 am to 12:30 pm (scan QR code for attendance)

- Video Conference via Zoom
- Physical attendance at HQ SCDF Meeting Room 2

1. PB Regulatory System (Update)

- FSE Registration
- Number of PB cases

Agenda:

- 2. CPE Program (update)
- 3. Admin Requirements (update)
- 4. Fire Engineering Technical Requirements (update)
- 5. QnA



Performance-Based Regulatory System



FSE Registration

Year	Number of FSEs registered	Year	Number of FSEs registered	Year	Number of FSEs registered
2004	40	2011	0	2018	2
2005	11	2012	5	2019	0
2006	5	2013	2	2020	0
2007	7	2014	1	2021	0
2008	8	2015	3	2022	1 (Decistor in
2009	7	2016	0		(Register in Sep 2022)
2010	3	2017	0		

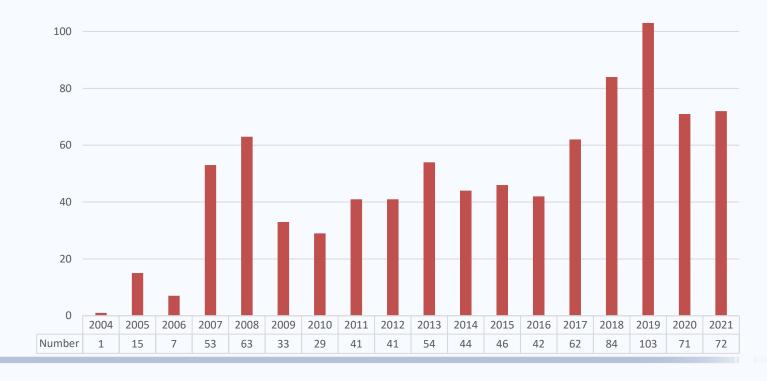
Current FSEs ("Practising" & "Restriction of Practice") – 77

• Deregistered – 17 (No longer practicing)

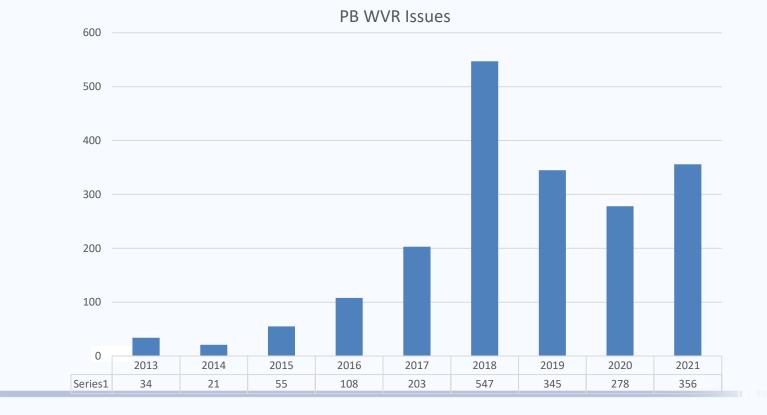
Number of PB Cases

(FEDB/FSER/PRR/OMM)

120



Number of PB WVR Issues



Continuing Professional Education Program

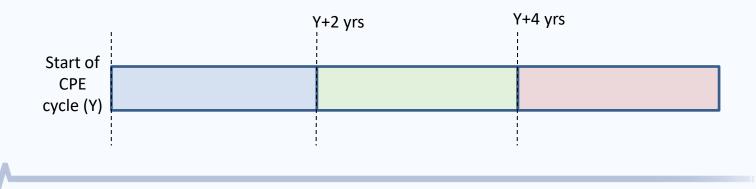
S/No	Approved Course	Date	CPE Hrs
102	Overcoming challenges of occupant fire evacuations from childcare centres (Online)	27 Jan 2022	1
103	Fire Modelling (Online)	09 Feb 2022 to 02 Mar 2022	6
104	Online Seminar - Smoke Control Essentials	15 Feb 2022 to 08 Mar 2022	15
105	Fire engineering for bush fire protection in NSW (Online)	23 Feb 22	1
106	A Framework for More Robust Fire Engineering (Online)	07 Mar 2022 to 16 Mar 2022	6
107	Understanding Human Behaviour in Fire (Online)	07 Mar to 11 Mar 2022	7
108	Introduction to PB Design and Regulation in Europe (Online)	14 Mar to 18 Mar 2022	7
109	SFPE 22 - International Conference on Performance-Based Codes and Fire Safety Design Methods (Online)	23 Mar 2022 to 25 Mar 2022	15
110	Fire and Life Safety of Very Tall Buildings: Challenges and Strategies (Online)	28 Mar 2022 to 1 Apr 2022	7
111	Advanced Fire Dynamic Simulator with Pyrosim and Smokeview (Online)	04 Apr 2022 to 29 Apr 2022	22
112	Human Behaviour and Evacuation Modelling	1 Aug 2022 to 2 Aug 2022	16
113	FiSAC conference	16 Nov 2022 to 17 Nov 2022	18
114	FiSAC workshop	18 Nov 22	5
	Last updated: 17 June 2022		

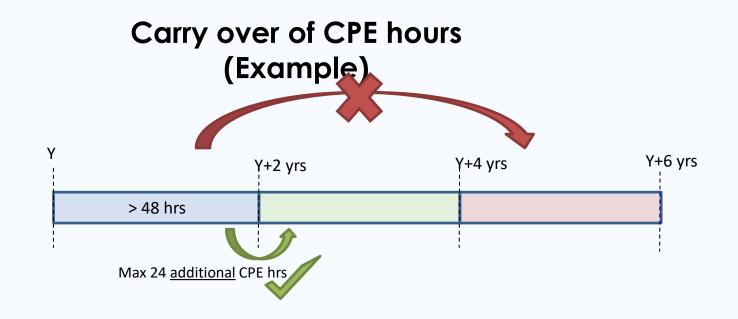
www.scdf.gov.sg
>> Fire Safety
>> Plans and Consultations
>> Performance-Based
Approach to Fire Safety
Design
>> List of approved CPE
courses

Emails from the PB team (LTC Tong / Mr Shimon)

CPE Program (Recap)

- Attain minimum 48 CPE hours for every 2 year-cycle. Cycle starts on:
 - > 1 Sep 2013 (for FSEs registered before 1 Sep 2013)
 - FSE registration date (for FSEs registered after 1 Sep 2013)
- Different FSEs may have different CPE training cycle start/end dates
- FSE's responsibility to track and monitor own CPE training records
 ✓ Development of CPE portal still on-going





• Allow extra CPE hours (up to 24 additional CPE hrs in the immediate previous cycle) to be carried forward to the NEXT training cycle only

Failure to meet CPE requirements

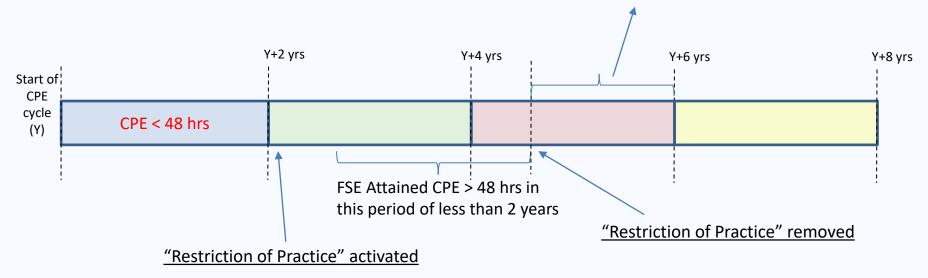
Registration Number	Registration Date	Full Name	Correspondence Address / E-mail Address	Contact Number (Office / Home / HP)	Status*
025	1 st July 2004	I))	
					Practising
			Email: iosee@singnet.com.sg		
026	-	-	-	-	Not practising
027	1 st July 2004			0107 F010 (TTD)	Practising
028	-	-	-	-	Not practising
029	1 st July 2004				Restriction of Practice (From 1 Sep 2017 onwards)
030	-	-		-	Not practising
031	1 st July 2004	· · ·	t	l	Practising
032	1 st July 2004				Restriction of Practice (From 1 Sep 2017 onwards)

Practising status listed as "Restriction of Practice" instead of "Practice" in FSE register

- Unable to submit PB plans & reports
- Existing submissions will not be processed further
- Allow reinstatement once they fulfill 48 CPE hours within a 2 year period (see example in next slide)
 - From the point of reinstatement to the end of the FSE's cycle, need to attain pro-rated CPE hours to maintain status.
 - FSE to submit reinstatement declaration

Example

For this period, need to achieve pro-rated CPE hrs





Reinstatement of practising status

	Singapore Civil Defence Force Course Declaration for Continuing Professional Education Programme						
		eclaration for Conti			Programme		
	Name:		F	SE Registration No:			
2-year period ——>	Training cycle for the period fro	(DD MMM YYYY)	to	(DD MMM YYYY)		
			1	Date Conference/Sen		Duration (hrs)	^{1:1} Training hours alloted
				From	To	(nours anoteu
				From	10		
No carry forward —	Conference/seminar/workshop attended Additional CPE hours carried over from previous			10 40 4			
NO Carry TOI waru	YYYY), up to a max of 24 CPE hours	Chaining Cycle (DD Ivilvilvi 1					N.A
Ensure approval from SCDF (for					+		
the presentations/lectures to					+		
be awarded CPE hours) is			S	ub-Total			0.0
obtained prior to the event	Presentations/lectures at conference/s	eminar/workshop					
obtailled prior to the event					T		
					+		
					+		
Ensure 48 hours or more —					+		
(extra hours NOT carried forward)				ub Total			
	1017	AL (Minimum training h	ours requi	rea = 48j	<u> </u>		
Sign and submit	I declare that I : (please tick on appropriate how helps)						
Sign and Submit	X have completed the minimum require	ment of 48 hours of training	within the 2-y	ear (or less) period as shown in	the table above so	as to continu	e my practice as a
in PDF format	FSE.						
	N.A have insufficient training hours within	the 2-year period, as shown	n the table at	bove. I am aware that if I do not H	ave enough trainin	g hours during	g any training cycle, l
	am unable to practise as a registered FSE practice status. I will need to atta					derstand that	to reinstate my
	T OL practice status, I will lie d to alta	in at it as the training floats t	instant ung (wo	, gest period in the pappequent t	anning ogores.		
_							
	Signature			late			

CPE declaration at end of training cycle

Ensure the time period aligns with your training cycle (or the prorated duration if recently reinstated)

May include carry forward from immediate previous training cycle

Ensure approval from SCDF (for the presentations/lectures to be awarded CPE hours) is obtained prior to the event

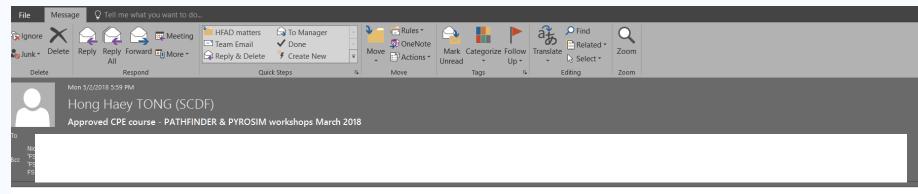
Ensure:

- 48 CPE hours or more, or
- exceed the pro-rated CPE hours for recently reinstated FSEs)

Sign and submit in PDF format <

		Singapor	re (ivil Defence	Force			
	Course Declara	ation for Conti	nui	ng Professio	nal Education F	Programme		
Name:				FSE Regis	stration No:			
	Training cycle for the period fro	(DD MMM YYYY)	M YYYY) to		(DD MMM YYYY)			
					Date Conference/Semi		Duration (hrs)	^{1:1} Training hours alloted
ĺ					From	То		
	Conference/seminar/workshop attended							
	Additional CPE hours carried over from previous trainin YYYY), up to a max of 24 CPE hours	ig cycle (DD MMM YY	ΥΥb	DD MMM				
				Sub-Total				0.0
	Presentations/lectures at conference/semina	ar/workshop					1	
				Sub-Total				
	TOTAL (M	linimum training ho	ours	required = 48)				
	I declare that I: (ploan tick on oppropriots has holds)							
	have completed the minimum requirement of	(40 k aven af hasiaia a		No. 2 was a seised of				
	nave completed the minimum requirement of	or 46 nours or training t	wichir	i the 2-year period a	as shown in the table a	bove so as to cor	ianue my prav	cuce as a non.
	have insufficient training hours within the 2-y	jear period, as shown ii	n the	table above. I am a	ware that if I do not ha	ve enough training	hours during	g any training cycle, l
-	am unable to practise as a registered Fire Sa FSE practice status. I will need to attain at le						derstand that	to reinstate my
	Signature			Date				





Dear Fire Safety Engineers (FSEs, in bcc)

This is to inform you that the events below will be considered as part of the approved courses for FSE Continuing Professional Education (CPE) programme. You may refer to the attachments for more information and registration details.

S/N	Event	Date	Venue	Event details	CPE hours
1	PATHFINDER workshop	19 to 20 Mar 2018	460 Alexandra Road	20180319-23 Py	14
2	PYROSIM workshop	22 to 23 Mar 2018			14

2 For FSEs who are attending the event, you are required to show documentary proof of participation from the event organiser and forward it to me within 1 month from the end of the event.

3 Just a gentle reminder to FSEs that you will need to submit a declaration at the end of your CPE training cycle to indicate all the approved CPE courses you have attended for your CPE training cycle. A template of the declaration form is attached. If you are unsure of the period of your CPE training cycle, you may contact me for more information.

CPE declaration template - dat...

4 For Fire Safety Engineers whose practising status is currently under "Restriction of Practice", if you have attained the reinstatement criteria (i.e achieve 48 CPE hours within a continuous 2-year period during the restriction), you may apply to reinstate your status to "Practising" by submitting the below CPE declaration form to me. You may refect o your practising status in the FSE Register (Go to www.scdf.gov.sg, Under Fire Safety/Fire Safety Approval, Click on Performance-Based Approach to Fire Safety Design).

× **CPE declaration**

template (for ...

5 Thank you.

LTC Tong Hong Haey

Senior Consultant (Performance-Based Plans)
Fire Safety & Shelter Department
Singapore Civil Defence Force
DID: (65) 6848 1448

Eligibility as a Peer Reviewer

- Original proposal circulated to FSEs in March 2022:
 - > Only FSEs who have practised more than 10 years are eligible to practice as a Peer Reviewer.
- Summary of responses from FSEs (12 responses received):
 - Support 10 FSEs
 - "RI is not really a PR. Instead RI is an experienced professional who is counter-checking the work of QP. Mainly to facilitate the self-declaration scheme, so 10yrs experience is crucial. However, PR is a peer of the FSE and is to have another set of eyes (and mind) to review the FSE's work.
 All PB projects are also 100% audited and a RI(FSE) also scrutinizes the study and installation. So in my opinion, the PR need not have 10yrs practice experience.
 - I would recommend that once the FSE has practised for more than 5 years (instead of 10) he should be allowed to practise as a peer reviewer and the reason is as follows:
 - The pre-requisite for an applicant to apply for FSE registration is 5 years of postgraduate practical experience in handling performancebased projects under the supervision of a registered FSE.
 - The applicant would need to have sufficient experience in handling a range of performance-based issues before he would even be considered or called for an interview by SCDF's selection panel.
 - Once the applicant has attained his FSE title and after practising for 5 years, he would have gained a total of 10 years of practical experience i.e. 5 years postgraduate experience + 5 years of experience after being registered as a FSE).
 - With this, the FSE should be skilled enough to practice as a peer reviewer.

Eligibility as a Peer Reviewer

- Final proposal:
 - ✓ Only FSEs who have practised more than 10 years are eligible to practice as a Peer Reviewer.
 - In line with RI and AC Checker
- Implementation:
 - ✓ SCDF will issue a circular to inform the industry of this change.

Mandatory attendance at FSE Workshop

- Original proposal: FSEs must attend at least one FSE Workshop during each 2-year training cycle.
- Summary of response from FSEs (12 responses received):
 - Support 8 FSEs
 - Can have 2 separate sessions in case FSE missed out on the first session. Can also consider having the session after office hours (tight schedule during daytime).
 - It will be good that SCDF can conduct more than 1 FSE workshop each year (so that there are at least 4 FSE workshops for the 2-year training cycle).
 - It will be helpful if the workshop registration cut-off date was stated in the call for registration. I missed the last one because I could not register on time.
 - This is a good idea. But at least 3 to 4 sessions should be arranged over the 2 yrs to allow FSEs to manage their schedule and lock in attendance.

Mandatory attendance at FSE Workshop

- Final proposal:
 - > FSEs must attend at least one FSE Workshop during each 2-year CPE training cycle.
 - Failure to do so Practising status will be converted to "Restriction of Practice" at the end of the training cycle.
 - Reinstatement by attending an FSE Workshop thereafter.
- Support from all stakeholders:
 - SCDF will organise at least 1 FSE Workshop each year.
 - SCDF monitor FSE's participation, and organise more sessions of FSE Workshop where deemed necessary.
 - If FSEs are unable to participate in the FSE Workshops during their CPE training cycle, they must provide valid reasons, and SCDF will then evaluate whether additional sessions of FSE Workshops are necessary.

Admin Requirements Update



CORENET 2.0 & NetTrust token

- CORENET 2.0 is scheduled to roll out by end 2022
- Allows all FSEs to submit FEDBs and sign off FSER/PR reports via CORENET, regardless of whether the FSE is a QP.
- More details will be shared once the system is ready.



Update of Fire Safety Act

- Prior to 31 Dec 2021
 - Fire Safety Act (Chapter 109A)
- With Effect From 31 Dec 2021
 - Rename to Fire Safety Act 1993
- Only change is the numbering of the sections in the FSA.
 Need to be careful when making reference to any sections in the FSA.
- No change to the Fire Safety Regulations

Changes to relevant PB forms due to update of FSA

Download latest forms from <u>www.scdf.gov.sg</u>
 > Downloads >> Forms >> Plan Approval
 > Declaration Form for PB plans (amended)
 > Letter of Undertaking (amended)
 > Letter for PB audit closure (no change)

Fire Engineering Technical Requirements Update



Acceptance Criteria for exit staircases.

At <u>all</u> staircase landings at Z=1.7m :

- 1. Temperature < 60°
- 2. Visibility > 10m

Throughout whole exit stair

3. FED < 0.3

Above was left out of the FSE Dialogue 2019 materials. Already reinstated.



Activation of smoke control systems

Clause 7.4.5 k.(1)(a) : The engineered smoke ventilation system shall be activated by **smoke detectors** located in the smoke control zone......

Must be activated by smoke detectors (not by sprinklers or other means), except in carpark, loading bays/driveways of industrial developments where there is a build-up of exhaust fumes.

Engineered Smoke Control system must activate upon activation of the 1st smoke detector.

- No double-knock proposals.
- No delayed activation.
- No manual activation *in lieu of* automatic activation.



Situations that could be unsuitable for a PB study (General Guidelines to share with FSEs for reference)

4 main categories:

- 1. There is no suitable fire engineering methodology available and relevant to attain the fire safety objectives.
- 2. The consequences of the Fire Code deviation (regardless of whether there is a PB methodology to address the Fire Code deviation) are considered severe.
- 3. The risk is not easily quantifiable, i.e. fire risks involving probabilities.
- 4. The proposal does not align with prescriptive-based fire safety design policies.

www.scdf.gov.sg

- >> Fire Safety
- >> Plans and Consultations
- >> Performance-Based Approach to Fire Safety Design

Performance-Based Approach to Fire Safety Design

- Registration for Fire Safety Engineers
- List of Projects involving Performance-Based Fire Safety Design
- Situations deemed unsuitable for the Use of Performance-Based (PB) Approach
- List of approved CPE course
- Fire Safety Engineers (FSE) Dialogue Session
- Register of Fire Safety Engineers
- Performance-Based Plan Approval Process
- Performance-Based Provisions
- Performance-Based Provisions Code Structure
- Frequently Asked Questions
- Circulars on Performance-Based Fire Safety Issues
- Singapore Fire Safety Engineering Guidelines

Let's try to download the file now and refer to the list.

Mark-Up drawings

Bad example

Based on I

SCDF appeal committee opined to

"consider the extension of smoke free lobby to the secondary internal corridor with all requirements on smoke free lobby (i.e. protected and sterile space, ventilation requirement, services not serving lobby to be protected etc) duly complied with.

All dormitory bedrooms shall escape into the NV corridor ventilated via existing high jack roof. The ventilation requirement for the internal corridor serving dormitories' bedrooms will need to be supported with a fire safety engineering study conducted by a registered Fire Safety Engineer. The Fire Safety Engineer may consult SCDF Performance-Based (PB) officers if necessary".

Escape route to ST3 via extended SSL considered to be an acceptable form of 2nd escape granted under waiver (clouded in orange). As such, smoke stop lobbies (areas in yellow) will not be covered in PB assessment.

13

APPEND Read Road 1 Hourse and 1

CERNEL NO. DATA TO THE

2WAT-550m

All domittory bedroom fire doors open into NV comidor (area covered in red). PB assessment to show NV corridor is tenable for 800s. (assumed steady state based on CFD results) after the door is opened. At a height of 2.5m above FFE, tenability considered to be achieved when: Areas where visibility in the LS internal corridor is less than 10m are within a maximum of 10m distance from the door of domnitory on fire. 2000 Areas where smoke layer temperature at LS internal corridor are more. 80 than 60 °C are within a maximum of 10m distance from the door of 1 dormitory on fire. APROX 8 2000 ALT 6 (2 16. - clast CODE KIND DIV AT 1: (14 MIN) 1 128 10 Canton Context which they 1947 2 2 2 465 ML - 458 R. # the star sector Two independent staircases ST3 and ST4 will #1900 Inc. 40 be used for escape, complying to Clause 10.00 1. 100 2.00-3 9.3.3c. Leyout will also comply to required 2-APPENDE OF ANOTHER LINES BARADONESE DO NO. AN AD INC. PRO WALKN APROVED REPET TOTAL 107412-004 way travel distance set out in Table 2.2A. ... 1 Abdala LEGEND Area of PB Assessment (NV Internal DORMITORY BEDROOMS -----Corridor) NV VIA HIGHJACK ROOF SMOKE FREE LOBBY 1st-Way Escape to ST4 under FIRE LOCATION PB assessment

Figure 2. Scope of fire engineering assessment (5th Storey Level)

Waiver Description

Description of clause and issue needs to be clear and specific.

Issue No : 1
Description: See attached MEA_FSSD Appendix A
Status: Disapproved
Issue No : 1
Description: Refer filename: waiver form.docx

Status: Disapproved



Building with multiple fire safety non-compliances

WVR/00001/22 FER

- PB1 Prescriptive 1
- PB 2 Prescriptive 2
- **PB3 Prescriptive 3**
- PB 4 Prescriptive 4
 - Prescriptive 5



Will be REJECTED

Building with multiple fire safety non-compliances

WVR/00001/18 FER

- PB 1
- PB 2
- PB 3 💙
- PB 4

WVR/00002/18

- Prescriptive 1
- Prescriptive 2
- Prescriptive 3
- \checkmark
- Prescriptive 4
- Prescriptive 5

Declaration of compliance by QP, FSE and Peer Reviewer

PERFORMANCE-BASED SUBMISSION DECLARATION FORM 2 (FOR QP WHO IS ALSO THE FSE FOR THE SUBMISSION)

FIRE SAFETY ACT 1993

FIRE SAFETY (BUILDING FIRE SAFETY) REGULATIONS

The Commissioner Singapore Civil Defence Force 91 Ubi Avenue 4 Singapore 408827

Proposal		
		 _

*Lot/Plot

Address/Road

Part I

*TS/MK



To be completed by the qualified person who is a fire safety engineer and who prepares the plans of fire safety works which include any alternative solution, and the fire safety engineering report.

I, _____, Fire Safety Engineer Registration No. _______being a qualified person and a fire safety engineer under the Fire Safety Act, hereby certify that —_____

- (a) the fire safety works as shown on these plans have been designed in accordance with the provisions of the Fire Code, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications or waivers under section 59 of the Fire Safety Act; and
- (b) the alternative solution in the plans, and the fire safety engineering report, satisfy the fire performance requirements in the Fire Code, and comply with the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to any deviation or modification approved by the Commissioner.

(Name and signature of qualified person/fire safety engineer)

(Address of qualified person/ fire safety engineer) Date:_____



Part II

To be completed by the peer reviewer who reviews the alternative solution in the plans of fire safety works and the fire safety engineering report.

I ______, Fire Safety Engineer Registration No. being a peer reviewer under the Fire Safety Act, hereby certify that the alternative solution shown on these plans, and the fire safety engineering report satisfy the fire performance requirements in the Fire Code, and comply with the provisions of the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to any deviation or modification approved by the Commissioner.

(Name and signature of peer reviewer)

__(Address of peer reviewer)

Date:



Declaration of compliance by QP, FSE and Peer Reviewer

PERFORMANCE-BASED SUBMISSION DECLARATION FORM 2 (FOR QP WHO IS ALSO THE FSE FOR THE SUBMISSION)

TRE SAFETY ACT 1993

FIRE SAFETY (BUILDING FIRE SAFETY) REGULATIONS

Declaration form :

Part II

To be completed by the peer reviewer who reviews the alternative solution in the plans of fire safety works and the fire safety engineering report.

Must be <u>endorsed</u> by QP who is FSE, and <u>PR</u> Must be a <u>single</u> document (*Not in 2 separate parts*)

To be completed by the qualified person who is a fire safety engineer and who prepares the plans of fire safety works which include any alternative solution, and the fire safety engineering report.

I, _____, Fire Safety Engineer Registration No. being a qualified person and a fire safety engineer under the Fire Safety Act, hereby certify that —

- (a) the fire safety works as shown on these plans have been designed in accordance with the provisions of the Fire Code, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications or waivers under section 59 of the Fire Safety Act; and
- (b) the alternative solution in the plans, and the fire safety engineering report, satisfy the fire performance requirements in the Fire Code, and comply with the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to any deviation or modification approved by the Commissioner.

(Name and signature of qualified person/fire safety engineer)

(Address of qualified person/ fire safety engineer) Date: (Address of peer reviewer)

-



Declaration of compliance by QP, FSE and Peer Reviewer

PERFORMANCE-BASED SUBMISSION DECLARATION FORM 3 (FOR OP WHO IS NOT THE FSE FOR THE SUBMISSION)

FIRE SAFETY ACT 1993

FIRE SAFETY (BUILDING FIRE SAFETY) REGULATIONS

The Commissioner Singapore Civil Defence Force 91 Ubi Avenue 4 Singapore 408827

Proposal

*Lot/Plot *TS/MK

Address/Road

Part I

To be completed by a qualified person who is not a fire safety engineer and who prepares the plans of fire safety <u>works</u> and prepares the alternative solution in the plans under the supervision of a fire safety engineer.

L_____, Qualified Person (e.g. Professional Engineer / Architect) Registration No. being a qualified person under the Fire Safetr Act, hereby certify that —

- (a) the fire safety works as shown on these plans have been designed in accordance with the provisions of the Fire Code, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications or waivers under section 59 of the Fire Safety Act and
- (b) the alternative solution in the plans adheres to the fire safety engineering report.

(Name and signature of qualified person)

__(Address of qualified person)

Date:

Part II

To be completed by the fire sqfety engineer who is not a qualified person and who supervises the preparation of the alternative solution in the plans of fire sqfety works, and prepares the fire sqfety engineering report.



I._____, Fire Safety Engineer Registration No. being a fire safety engineer under the Fire Safety Act, hereby certify that the alternative solution shown on these plans, and the fire safety engineering report, satisfy the fire performance requirements in the Fire Code, and comply with the provisions of the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to any deviation or modification approved by the Commissioner.

(Name and signature of fire safety engineer)

_(Address of fire safety engineer)

Date:

PART III

To be completed by the peer reviewer who reviews the alternative solution in the plans of fire safety works and the fire safety engineering report.

Peer Reviewer

I._____, Fire Safety Engineer Registration No. being a peer reviewer under the Fire Safety Act, hereby certify that the alternative solution shown on these plans, and the fire safety engineering report satisfy the fire performance requirements in the Fire Code, and comply with the provisions of the Fire Safety Act and its regulations, the relevant codes of practice and design guidelines, subject to any deviation or modification approved by the Commissioner.

Name and signature
of peer reviewer)

__(Address of peer reviewer)



<u>RMANCE-BASED SUBMISSION DECLARATION FORM 3</u> DR QP WHO IS NOT THE FSE FOR THE SUBMISSION)

FIRE SAFETY ACT 1993

FIRE SAFETY (BUILDING FIRE SAFETY) REGULATIONS

Declaration form :

To be completed by the fire safety engineer who is not a qualified person and who supervises the preparation of the alternative solution in the plans of fire safety <u>works, and</u> prepares the fire safety engineering report.

I______, Fire Safety Engineer Registration No. being a fire safety engineer under the Fire Safety Act, hereby certify that the alternative solution shown on these plans, and the fire safety engineering report, satisfy the fire performance requirements in the Fire Code, and comply with the provisions of the Fire Safety Act and any regulations made thereumder, the relevant codes of practice and design guidelines, subject to any deviation or modification approved by the Commissioner.

Must be <u>endorsed</u> by QP, FSE and PR
 Must be a <u>single</u> document (*Not in 2 or 3 separate parts*)

To be completed by a qualified person who is not a fire safety engineer and who prepares the plans of fire safety <u>works</u> and prepares the alternative solution in the plans under the supervision of a fire safety engineer.

L_____, Qualified Person (e.g. Professional Engineer / Architect) Registration No. being a qualified person under the Fire Safety Act, hereby certify that —

- (a) the fire safety works as shown on these plans have been designed in accordance with the provisions of the Fire Code, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications or waivers under section 59 of the Fire Safety Act and
- $\left(b\right)$ the alternative solution in the plans adheres to the fire safety engineering report.

(Name and signature of qualified person)

(Address of qualified person)

Peer Reviewer

_ . _ _ _ _

To be completed by the peer reviewer who reviews the alternative solution in the plans of fire safety works and the fire safety engineering report.

_(Na	ame	and	signa	iture
0	of pe	er r	eview	er)

__(Address of peer reviewer)



Q&A

Λ





https://go.gov.sg/fseworkshop2022qui

Ζ

FSE-CPE = 3 hours for FSE Workshop 2022 attendees

Virtual participants need to complete the quiz by Fri 01 July 2022 with <u>all the correct</u> <u>answers to qualify for the 3 CPE hours</u>.



Scan QR code for Quiz.