

Abhay D Purandare

M.Eng(FPE), FIFireE, FIFE, PMSFPE

Consultant - Fire & Life Safety

A-10, Chanakyapuri,

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www.abhaypurandare.com

PROFESSIONAL SERVICES OFFERED

Abhay is a seasoned Fire Safety professional with three decades of varied experience. He obtained his Master in Fire Protection Engineering from the University of Maryland (USA), is a Fellow of the Institution of Fire Engineers (UK) & Institution of Fire Engineers (India), and a Professional Member of the Society of Fire Protection Engineers (USA). Having worked in both industrial and infrastructure (building) sectors, he has a unique blend of experience and knowledge, covering areas of Project consultancy, Fire Safety audits, Fire fighting product development & design and Higher Education and Training. Presently, he offers the following Fire & Life Safety related services:

Project Consultancy

- Fire Safety consultancy for industrial projects, which involves preparation/ review of fire and safety related engineering documents such as Fire & Safety philosophy, C&E matrix, Firewater adequacy calculations, specifications and data sheets for fixed and portable Fire fighting systems/ equipment, etc. Review of fire protection related documents & drawings including Fire fighting calculations, Fire fighting (hydrant) system layouts, Clean agent systems, Sprinkler, Water spray & water mist systems, portable fire extinguishers.
- Fire & Life Safety consultancy for infrastructure projects (Assembly/Residential/Commercial/Mercantile/Healthcare/Hotel buildings) advising on life safety and fire protection aspects of the design. Review of deliverables such as Fire & Life Safety strategy reports and layouts, and fire protection shop drawings. Preparing testing & acceptance procedures and conduct field inspection and testing/commissioning of fire protection systems during construction/ handing over.

Specialized/ Tailor-made Training

- Training programmes on different topics/issues related to Fire safety/Fire protection can be delivered. This includes industrial fire topics such as Fire hazard properties of chemicals, Explosion theory & related risks, Fire protection strategies employed in industries, Different Fire Protection systems, Major Fire Response Plans, etc. Tailor-made programmes for different level and type of participants, can be developed.
- With expertise in fire and life safety codes and performance based design approach, he can deliver a variety training programmes and workshops related to these topics. This includes egress design, fire safety & fire prevention requirements, fire suppression and protection systems, and fire/emergency response.
- Special refresher and professional development programmes can be delivered for Industrial Fire & Emergency response personnel

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Fire Safety Audits, Fire Hazard/Risk Assessment

- Fire Safety adequacy audit for industrial and infrastructure projects, for assessing the fire prevention and fire protection systems provided for identified fire hazards. This involves confirmation/verification of identified fire hazards, assessment of operational efficiency and effectiveness of life safety, fire prevention and fire protection systems provided (in line with relevant national/international codes – BIS, NFPA, API, etc), emergency response capability, etc.
- Fire Hazard Analysis, Fire Risk Analysis for different facilities/processes, using methodology adopted by NFPA (National Fire Protection Association)/SFPE (Society of Fire Protection Engineers).

Incident Investigation & Extraordinary Problems Related to Fire & Life Safety

- With core knowledge of fire dynamics, growth and effects, and behavior of materials and structures under fire, Abhay has the ability to do in-depth analysis of fire accidents and provide credible hypotheses of the same, backed by calculations/data. Simulation/modeling of fire incidents for supporting accident hypothesis can also be arranged.
- Analysis of problems/unusual situations related to life safety and fire protection, which are not code-compliant and offer viable solutions for the same. In the past, he was called to study designs/situations which were not fully code-compliant, and on which he offered alternatives based on performance based engineering, which were acceptable to concerned approving authorities.
- He also has the ability to analyze and advise on fire protection related such as suitability and acceptability of fire fighting agents to specific fire hazards, capability assessment of Fire & Emergency Services for sites/hazards, etc.

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RECENT ASSIGNMENTS & CLIENTS

Assignment/ Work Detail	Client	Period
Consultancy Services		
Consultancy for Firefighting Equipment Design, Development and Certification	Shah Bhogilal Jethalal & Bros, Ahmedabad (on retainership basis)	Apr 2015 to present
Project Consultancy services (FLS Peer review/ Inspections for Dubai Metro extension project, AD Temple project)	Butler Engineering, Dubai	Apr 2017 to present
Specialist Studies		
Fire Hazard, Risk & Vulnerability Assessment of GIFT City	Taru Leading Edge Pvt Ltd (on behalf of GIDM)	June 2019
Response Assessment of Refinery Fire Services	KNPC, Kuwait (on behalf of IFluids Engg, Chennai)	Sept - Oct 2018
Fire Safety Audits		
Fire Safety Adequacy Audit	Epoxy Division, GRASIM, Vilayat (on behalf of Private Client)	Oct 2019
Fire Safety Adequacy Audit	Ultratech Cement, Rajula (on behalf of Private Client)	March 2019
Fire Safety Adequacy Audit	Aaykar Bhavan (ITO Building), Ahmedabad (on behalf of private client)	Sept 2018
Fire Safety Adequacy Audit	Milan Pharmaceuticals (I) Pvt Ltd, Dahej (on behalf of private Client)	Nov 2017
Fire Safety Adequacy Audit	Raychem RPG Pvt. Ltd, Halol	Oct 2017
Fire Risk Assessment	RIL – Multi Chemical Terminal, Haldia (on behalf of Sure Safety Pvt Ltd)	Aug 2016

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Fire Scene Reconstruction		
<i>Fire Scene Reconstruction & Recommendations</i>	<i>D.S. Enterprises, Bengaluru</i>	<i>Aug 2018</i>
<i>Fire Investigation & Fire Scene Reconstruction</i>	<i>Private Company (name withheld on request)</i>	<i>Feb 2017</i>
Fire Safety Training Programmes/ Workshops		
<i>4 Day Programme on 'Building Design for Fire and Life Safety'</i>	<i>On behalf of IIT Gandhinagar</i>	<i>June 2019</i>
<i>2-Day Training Programme on NBC Part 4</i>	<i>On behalf of Goa Fire & Emergency Services, Panjim</i>	<i>June 2017</i>
<i>2-Day Industrial Fire Safety Training Programme</i>	<i>Gyan Media Inc, Mumbai</i>	<i>March 2017</i>
<i>2-Day Industrial Fire Safety Training Programme</i>	<i>Finolex Industries, Ratnagiri</i>	<i>Jan 2017</i>