

Fire Safety Program In case of unmanageable FIRE calamity, quickly call Fire Brigade

- Fire Toll free: 101
- Fire Control room
 080-22971550
 080-22971600
 080-22971500

- Fire Wireless operator
 080-22971571
- Nearest Fire Station :

Yelahanka 080 22796680 9341776119 / 09 The aim of fire safety program at CeNS is to broadly

•generate the fire safety awareness effectively

- reduce the risk & number of fires
- reduce loss of life, injury and property damage
- focus on prevention by identifying and rectifying unsafe behaviors.
- developing & practicing escape plans

through education, training and inspection as well as policy and standard developments.

Objectives:

CeNS members should be able to:

- Identify common fire hazards at the workplace
- How to prevent fire incidences
- Follow the emergency procedures in case of fire
- Demonstrate how to correctly use a fire extinguisher
- Take part in a company fire drill, and demonstrate the correct emergency response

NEVER fight a fire if:

- If you are not equipped with proper extinguisher
- The fire has spread beyond its point of origin and limit

Action: Mercilessly "Get Out Quickly But

Calmly & Loudly Say

"FIRE, FIRE, FIRE, HELP, HELP"

Raise the alarm & call the fire Brigade

Evacuation Instruction

- Get out of the fire-site/building/area calmly but as quickly as possible & don't leave personal belongings
- Don't run, it leads to panic (you remain helpless/confused)
- Use staircase and never use elevators/lift
- If accessible, follow instruction stricity from Safety Officer/Police/Security, and never ask details and argue with them
- If possible switch-off equipments, electricity, gases etc.
- Try to help and bring out ladies, children and old people
- Don't obstruct passage of your own, police /Fire squad
- Wait in assembly area till instruction from Safety Officer.

FIRE Management : Healthy Habits

Make sure that you are aware of

- Escape routes
- Exit doors and how to undo them
- Locations of fire fighting equipment
- Types of fire fighting equipment (Extinguishers / Blankets)
- Locations of call points
- The assembly points
- Cell numbers of Safety Office / in-charge
- Phone / Cell Numbers fire brigade

FIRE Drill

 Mock fire drills are absolutely essential to ensure that all the members know how to get out of a building to a safe area in case of a fire/emergency

 Mock drills provide you protocols to prepare for a fire / emergency and the action to be taken when the fire alarm rings

Mock drill enables us to prepare for a fire/any disaster without the disruption.

Understanding the Basics of FIRE

FIRE : It is chemical reaction (combustion) producing heat and light It is RAPID, HOT, DARK & DEADLY

FUEL, **HEAT** & **OXYGEN** are essential to initiate and sustain FIRE

It exists until one or more of these elements is removed

FIRE triangle: FIRE exists when 3 elements of the triangle are present



Any combustible substance (solid, liquid or gas) that burns FUEL Remove one or more of these components to put-off FIRE

Wild (uncontrollable) FIRE leads to

• Huge (thick) smoke: Kills / Creates health problems as it contains CO & HCN

- Fumes : Kills / Destroys as it raises the temp. up to 1250°C
- **Soot :** Kills / Health problems gets absorbed in the skin & eyes Bronchitis & asthma, Heart attack and Stroke, and even cancer)
- Burns : Injury to skin, or other tissues, caused by heat)
- Breathing difficulties
- Asphyxiation : Deficient supply of oxygen to the body that arises from abnormal breathing
- Poisoning
- Building debris/ Property loss / Damage
- Trips
- Trampling

Following are the common fire hazards in the workplace:

- Waste and combustible materials
- Flammable vapours, liquids & solids
- Plastics
- Stationary items
- Wood
- Fabric
- Dust accumulation
- Heat generating objects
- Faulty electrical equipment
- Overloading power sockets
- Dry garden wastes
- Smoking
- Human error and negligence

FIRE Prevention Tips

- NEVER Smoke or use match stick in labs
- Don't overload electrical sockets in labs
- Don't use any frayed electrical cords in labs
- Don't run cords under or over furniture
- Never put cords against walls or across doorways
- Use standard (tested & approved) power strips & extension cords
- Management of fire hazard materials (segregation of incompatibles)
- •The dispensing units should be protected against collision damage
- Keep chemical / solvent containers closed when not in use
- Store Chemicals / solvents in Fire Resistant Cabinets
- Use inert atmosphere when using organometallics
- Turn off & unplug all instrument at the end of the day

Keep Fire Extinguishers at the Places Identified by Safety Officer

TYPES of FIRE EXSTIGUISHERS

Symbols on fire extinguishers & Meaning		WATER	FOAM SORAY	ABC POWDER	CARBON DIOXIDE	
XX	Wood, paper & textiles	\checkmark	\checkmark	\checkmark	X	\checkmark
	Flammable Liquids	X	\checkmark	\checkmark	\checkmark	X
	Flammable Gases	X	X	\checkmark	X	X
¥	Electrical Contacts	X	X	\checkmark	\checkmark	X
	Cooking oils and fats	X	X	X	X	\checkmark