

FIRE RISK REDUCTION THROUGH EDUCATION FOR MAHESTAN RESIDENTIAL TOWERS IN TEHRAN — IRAN

By: Narges Mortazavi LBD10, Turkey, Istanbul 14th- 16th April 2019

FIRE

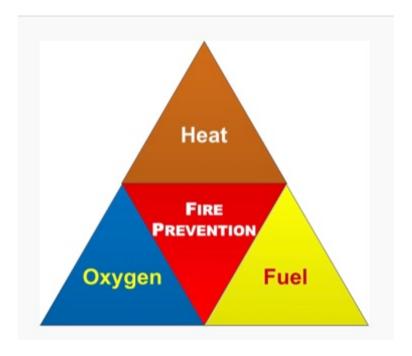
- Man has depended on it for centuries for things from cooking and heating to a major source of lighting.
- And yet, thousands of people die each year as a result of either house fires or wildfires, with direct property loss estimated at \$8.6 billion dollars annually.



FIRE PREVENTION

The Fire Prevention Triangle

- A fire needs three elements heat, oxygen and fuel.
- Without heat, oxygen and fuel a fire will not start or spread.
- A key strategy to prevent fire is to remove one or more of heat, oxygen or fuel.
- The risk assessment should include detail on all three elements to minimize the risk of a fire starting/ spreading.



FIRE SAFETY STRATEGIES

- The main design options to ensure fire safety are:
 - Prevention: controlling ignition and fuel sources so that fires do not start.
 - Communications: if ignition occurs, ensuring occupants are informed and any active fire systems are triggered.
 - Escape: ensuring that occupants of buildings and surrounding areas are able to move to places of safety.
 - Containment: fire should be contained to the smallest possible area, limiting the threat to life safety and the extent of property likely to be damaged.
 - Extinguishment: ensuring that fire can be extinguished quickly and with minimal consequential damage.

PELASCO FIRE (1/3)

- The Pelasco Building was a 17story high-rise landmark building in Tehran, the capital city of Iran.
- The fire and subsequent building collapse was the worst such disaster in Tehran since 2005, when a blaze at a historic mosque killed 59.



WHAT WAS THE PROBLEM (2/3)

The report said the building's electrical and heating systems and fire safety regulations were not up to standard and contributed to the building fire and collapse.

COULD PELASCO FIRE BE PREVENTED?

- The answer is YES!
- By common Understanding of fire safety equipment and materials, by shop keepers.
- By understanding safety regulations inside and out side buildings.

IMPORTANCE OF FIRE AND SAFETY EDUCATION

- The primary purpose of fire safety education is to prevent fires from happening and teach strategies that reduce fire deaths and injuries.
- Result of effective fire prevention and safety programs the trend over the last decade has been:
 - >Lower number of fires.
 - Lower number of fire deaths.
 - >Lower number of fire injuries.
 - Lower dollar fire loss.

MY ACTION PLAN

 ❖ Fire risk reduction through Education for Mahestan Residential towers in Tehran – Iran

AIM OF THE ACTION PLAN

- > Teaching communities to Look, Listen, Learn;
 - To Be aware; fire can happen anywhere.
 - ➤ To Look for places fire can start
 - > To Listen for the sound of the smoke alarm
 - To Learn two ways out of each room, and a path from each exit to the outside

WHAT TO DO WHEN THE FIRE BREAKS OUT?

- Raise the alarm.
- 2. Shout to wake everyone up, get everyone together, and make your way out by the quickest route. ...
- 3. Do not investigate the fire.
- 4. Do not open any doors other than ones which you need to escape through. ...
- If there is smoke, crawl along with your nose near to the floor where the air will be cleaner.
- 6. Do not use the lift

SITE OF ACTION PLAN

Country: Iran

City: Tehran

Region: Shahrak e Gharb

Site: Residential Buildings of

Mahestan, where I am leaving.



AUDIENCES TARGETED

- Children
- Seniors
- Special needs and disabilities
- house wives

TIMING

The action plan will be implemented from May 2019

PROPOSED BUDGET

ltems	The cost
Printing materials:	\$50
Transportation:	\$ O
Rent of conference room:	\$ 0
Sum	\$50

EXPECTED RESULT OF MY ACTION PLAN

- We expect through this training, residents have the real knowledge about possibilities of the incident.
- > We expect people to have extra precautions about fire.

FUTURE PERSPECTIVE

In case of successful implementation of this action plan, we can form a volunteer group to train other residential complexes in the negborhood.

CONTACT DETAILS

Name: Narges Mortazavi

Email address:nrgsmortazaviii@gmail.com

Instagram: nrgsmortazavi