

Fire Safety



Why do need to be concerned?

In 2021 The National Fire Protection Association (NFPA) recorded 1.35 million fires that caused 3800 fire deaths, and property damage estimated at 15.9 billion.(in the USA)

That is a fire response every 23 seconds!

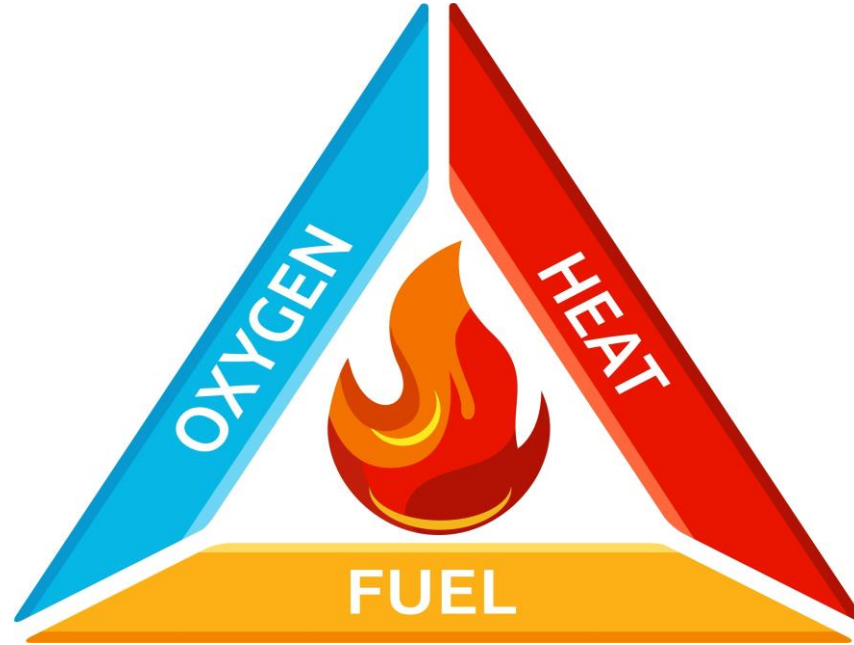
Why do need to be concerned?

In Canada we do not have an organization that accurately tracks fire response and costs.

Stats Canada reports that there was 33,026 fire events in 2021 costs and injuries are not reported.

1 single event in 2016 at Ft McMurray, cost 3.58 billion in direct costs.

What can we do to reduce fire risk?



If there was a small fire, would materials present allow the fire to spread?



Option #1 Remove the fuel



Materials Present in your workplace



Materials Present in your workplace



Option #2 Remove the Heat (ignition)



Case Study

The following video is curtesy of the US Chemical Safety Board on the hazards of hot work.

<https://www.youtube.com/watch?v=zWkcuR0adel>



The Dangers Of Hot Work



Option #2 Remove the ignition



Emergency Response



Plan B



Neighbours



Case Study

The following video is curtesy of the US Chemical Safety Board

<https://www.csb.gov/t2-laboratories-inc-reactive-chemical-explosion/>

Case study



Neighbours

Do you need to include fire risks of your neighbours in your emergency response planning?

Will evacuation routes from your facility be affected by a problem at your neighbours site or is there a second route to evacuate from your facility.

If you have a neighbour that handles or processes dangerous chemicals, it is a good idea to have a windsock to monitor wind direction.



Emergency Protective Systems



Looking forward



Summary



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