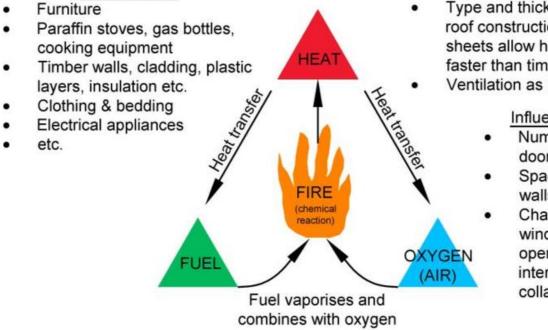
Fire Science-Triangle & Classes Personnel Safety & Accountability PPE Donning

Fire Science-Triangle (fire tetrahedron)

Fuel sources:



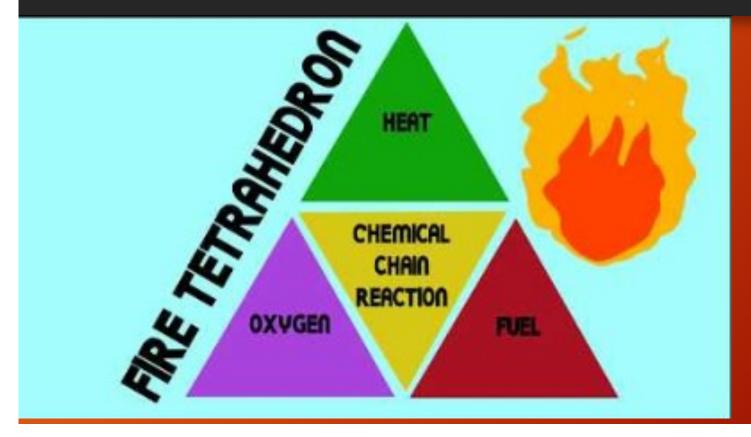
Influences on heat retained:

- Type and thickness of walls and roof construction. Thin steel sheets allow heat to radiate out faster than timber boards.
- Ventilation as below.

Influences on ventilation:

- Number and position of doors & windows.
- Spaces between floors, walls and roof.
- Changes occur due to windows breaking, walls opening, people intervening, structure collapse etc.

fire Tetrahedron

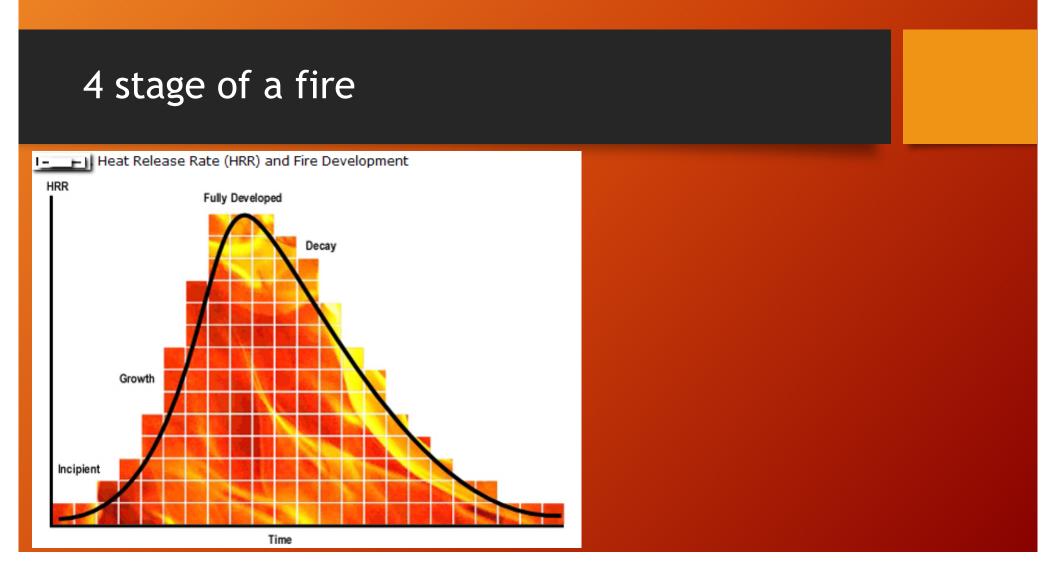


https://www.youtube.com /watch?v=48iloyfN--M&feature=emb_logo

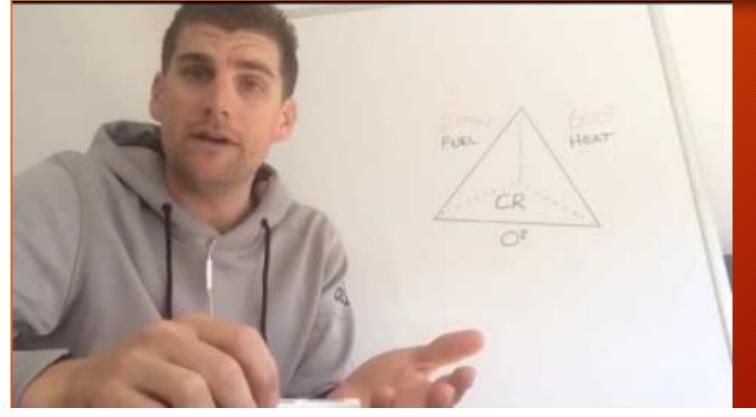
Back draft - Oxygen starved fire



https://www.youtube.com /watch?v=KjAXtsQI_kc&fea ture=emb_logo



4 stage of a fire



https://www.youtube.com/w atch?v=2qMQ9nmx4LQ&featur e=youtu.be

Then verse Now. The rate that content burns



https://www.youtube.com/watch?v=mulnw TNhV6Q&feature=emb_logo

Classes of Fire

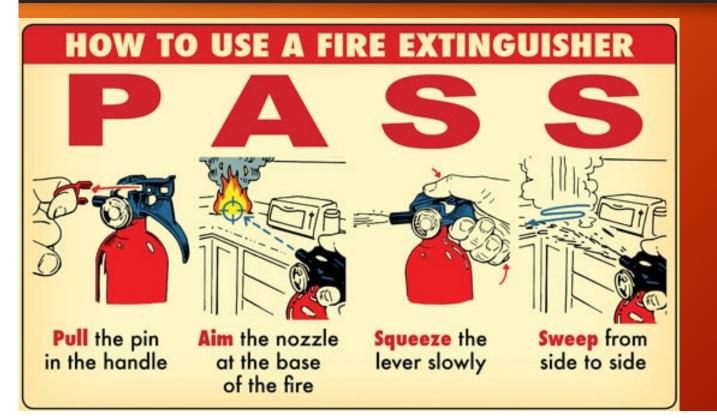
A	Ordinary Combustibles	Wood, Paper, Cloth, Etc.
В	Flammable Liquids	Grease, Oil, Paint, Solvents
C	Live Electrical Equipment	Electrical Panel, Motor, Wiring, Etc.
D	Combustible Metal	Magnesium, Aluminum, Etc.
K	Commercial Cooking Equipment	Cooking Oils, Animal Fats, Vegetable Oils

Fire Extinguisher types

File Extiliguistiel Chart							
Exting	juisher	Type of Fire					
Colour	Туре	Solids (wood, paper, cloth, etc)	Flammable Liquids	Flammable Gasses	Electrical Equipment	Cooking Oils & Fets	
	Water	Ves Ves	X 110	X 110	X 110	X 110	
	Foam	√ Yes	V Yes	X 110	X 110	V Yes	
Í	Dry Powder	V Yes	V Yes	V Yes	V Yes	X 110	
F	Carbon Dioxide (CO2)	x	~	×	~	~	
-		No	Yes	No	Yes	Yes	

Fire Extinguisher Chart

How to use a Fire extinguisher



Fire Extinguisher: How to use



https://youtu.be/LgvibNXNkw

Donning and Doffing Gloves



https://youtu.be/K HR5do-b7zY

Accountability

- Firefighter Accountability Tags.
 - 2 Velcro tabs on your helmet.
 - Turn it in when arriving at the seen, your keep the other one.
 - Used to track who is on the fire ground and what/where they are by CP.
 - MAKR SURE you take it back before leaving the seen.
- Incident Command Board
- PAR
 - Personnel Accountability Report
 - Do you have visible or physical contact with everyone in your crew.

URGENT

- Urgent is used to signal a serious situation that has the potential to either endanger the safety of operating members, or significantly impact fire ground operations
 - Attach1:Urgent, urgent, urgent; attach 1
 - Command: command on for attach 1
 - Attach1: Low pressure on red attach line, need more pressure!

MAYDAY

- MAYDAY is when **Fire** Rescue Personnel require. immediate rescue from hazardous situations
- LUNAR
 - L-Location
 - U-Unit
 - N-Name
 - A-Assignment and Air Supply
 - R-Resources Needed
 - https://www.firerescue1.com/firefighter-training/videos/fireground-flash-tip-calling-a-maydayyuHBxpU3z2Gxyh9I/
- FF:MAYDAY, MAYDAY, MAYDAY
- Command: on For MAYDAY
- FF:3rd floor A/B corner, acttach 1, FF Bernstein, Low air trap by fire, Ladder to window, Bailing out.