



Bureau of Fire Protection BANAYBANAY FIRE STATION



FIRE SAFETY LECTURE



MISSION



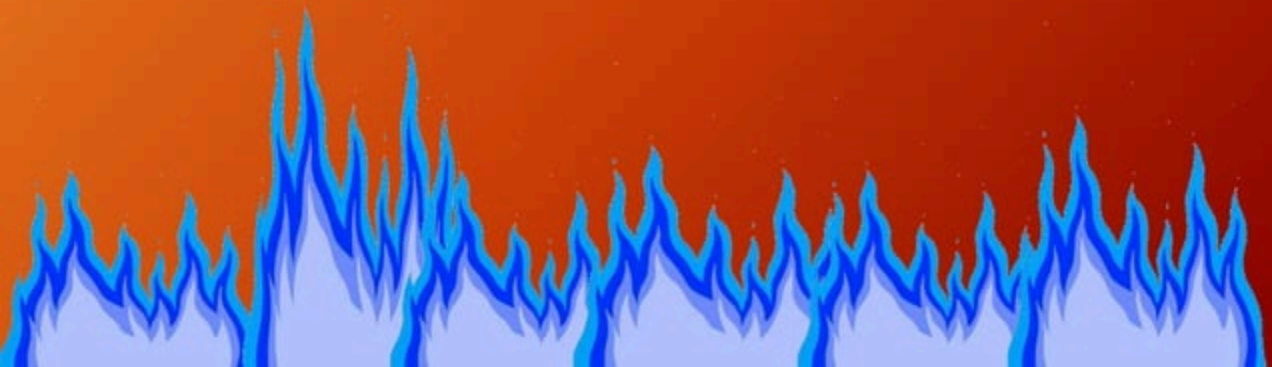
We commit to prevent and suppress destructive fires, investigate its causes, enforce Fire Code and other related laws, and respond to man-made and natural disasters and other emergencies.

VISION



A modern fire service fully capable of ensuring a fire-safe nation by 2034.

Understanding the Nature and Characteristics of Fire



FIRE IS ...



FAST

Fire doubles every 30 minutes under normal conditions





FIRE IS ...

DARK

- A small fire can produce enough smoke to fill a building in minutes
- Smoke results in:
 - Teary eyes
 - Choking sensation
 - Impaired judgement due to carbon monoxide
 - Loss of spatial recognition
 - Respiratory failure
- Temperature can climb to 650 to 760 degrees Celsius

FIRE IS ...



DEADLY

Most people who died in fires died of suffocation by inhaling smoke and toxic gases.





OZONE DISCO

19 MARCH 1996

160 persons killed

83 persons injured

P15M in damages



NCCC Mall Fire

December 23, 2017

38 persons killed

FIRE IS ...



CARBON MONOXIDE

Makes you disoriented and stops you from thinking and breathing

NITROGEN OXIDE

Makes you breathe faster, which removes the option of holding your breath.

CARBON DIOXIDE

Mixes with moisture in the eyes, nose and throat, causing coughing and hacking.



CHEMISTRY OF FIRE



STAGES OF FIRE



- 1. Incipient Stage** – There is no visible smoke or flame.
- 2. Smoldering Stage** – There is smoke but no flame.
- 3. Flame Stage** – Actual fire exists and heat builds up.
- 4. Heat Stage** – There is uncontrolled spread of superheated air.

CLASSES OF FIRE



Class A - Ordinary Combustibles
(trash, papers, woods, lumbbers,etc)



wood



cloth



paper



rubber



plastics

CLASSES OF FIRE



Class B - Flammable Liquids

(grease, petroleum products, oil, etc)



Gases



Oil



Motor spirit



Paints

CLASSES OF FIRE



Class C - Electrical Fires

(energized electrical appliances, electrical cords, sockets, etc)



CLASSES OF FIRE



Class D - Combustible Metals

(magnesium, lithium, titanium, etc)



CLASSES OF FIRE



Class K - Cooking Media
(cooking oils and fats)

GRASS/FOREST FIRE



Barangay Pintatagan – March
20-22, 2020



CAUSE OF GRASS/FOREST FIRE



Natural Cause:

- Drought

Human Activity:

- Kaingin
- Unattended Bonfire
- Cigarette Butts

COMMON CAUSES OF FIRE



Unattended cooking equipment.

COMMON CAUSES OF FIRE



Unattended electric iron

COMMON CAUSES OF FIRE

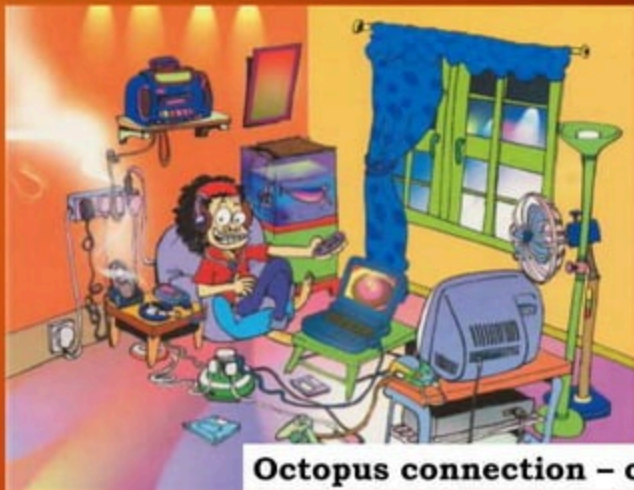


Improper wiring system



Improper discarding of cigarette butts

COMMON CAUSES OF FIRE



Octopus connection – overloading of circuit.

COMMON CAUSES OF FIRE



Unattended children playing matches

COMMON CAUSES OF FIRE



Mosquito coils near combustible rugs

KEY ELEMENTS OF FIRE SAFETY



PREVENTION

- **IDENTIFY** the most likely to cause fire.
- **ELIMINATE** or **REDUCE** these fire causes.



KEY ELEMENTS OF FIRE SAFETY



FIRE DETECTION

- Install Smoke Alarms
- Effective Alarm Annunciating Capability



KEY ELEMENTS OF FIRE SAFETY



FIREFIGHTING CAPABILITY

- Presence of mind to know what to do and necessary equipment to do the job.



KNOWLEDGE AND SKILL IN BASIC FIREFIGHTING



FIRE EXTINGUISHER – are first-response devices that provide the first line of defense against small fires.



HOW TO USE A FIRE EXTINGUISHER



T – TWIST THE PIN

P – PULL THE PIN

A – AIM AT THE BASE OF THE FIRE

S – SQUEEZ THE HANDLE

S – SWEEP FROM SIDE TO SIDE

ACTION TAKEN WHEN FIRE STRIKES



S – SOUND THE ALARM

A – ADVICE AND ACTIVATE FIRE BRIGADE

F – FIGHT THE FIRE, IF POSSIBLE

E – EVACUATE THE AREA / PREMISES

T – TELL OTHERS

Y – YOU GET OUT, CLEAR THE AREA



KEY WORD FOR FIRE SAFETY



P – PREVENTION

The best way to fight fire is to prevent it from happening.

A – AWARENESS

Awareness of the causes and dangers of fire keeps us always alert and prepared.

D – DETECTION

Detection of fire at its very early stages, while it is still small, is critical to keeping a fire under control

R – RESPONSE or REACTION

Response or Reaction should be quick and efficient

E – EVACUATION

Evacuation is our last resort when all plans fail.

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BFP-BANAYBANAY HOTLINE

**LIFE SAFETY is everyone's business.
Be Fire Safety Conscious!**

