



Windsor Heights Fire Department

# FIRE PREVENTION AND SAFETY IN THE HOME

Lt. Ryan Rupiper

**COMMON SENSE !!**

## FIRE BASICS

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- 🔥 HEAT
- 🔥 FUEL
- 🔥 OXYGEN

REMOVE THE FUEL, CUT OFF THE OXYGEN SUPPLY,  
OR COOL THE TEMPERATURE OF THE FIRE.

## HOW FIRE KILLS

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- 🔥 SUFFOCATION
- 🔥 SMOKE AND POISONOUS GASES
  - 4 COMMON
- 🔥 HEAT

## SMOKE DETECTORS

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- 🔥 THE FIRST LINE OF DEFENSE
- 🔥 ON EVERY LEVEL OF YOUR HOME,  
INCLUDING THE BASEMENT
- 🔥 OUTSIDE OF EACH SLEEPING AREA

## TYPES OF SMOKE DETECTORS

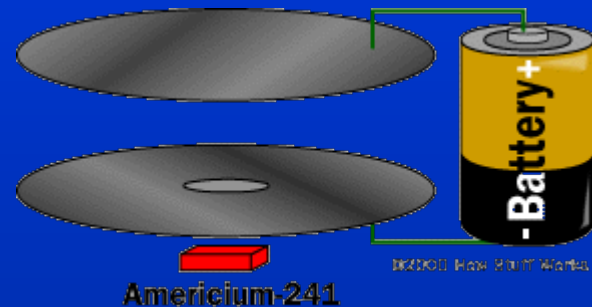
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- 🔥 BATTERY POWERED
- 🔥 HOUSEHOLD ELECTRIC POWERED
- 🔥 IONIZATION SENSOR
- 🔥 PHOTO-ELECTRIC SENSOR

UL TESTED

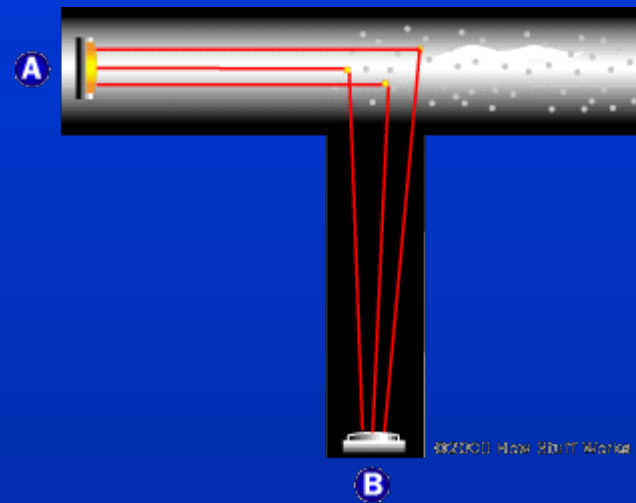
# How It Works - Ionization

- n When smoke enters the ionization chamber, it disrupts this current -- the smoke particles attach to the ions and neutralize them.
- n The smoke detector senses the drop in current between the plates and sets off the horn.



# How It Works – Photoelectric

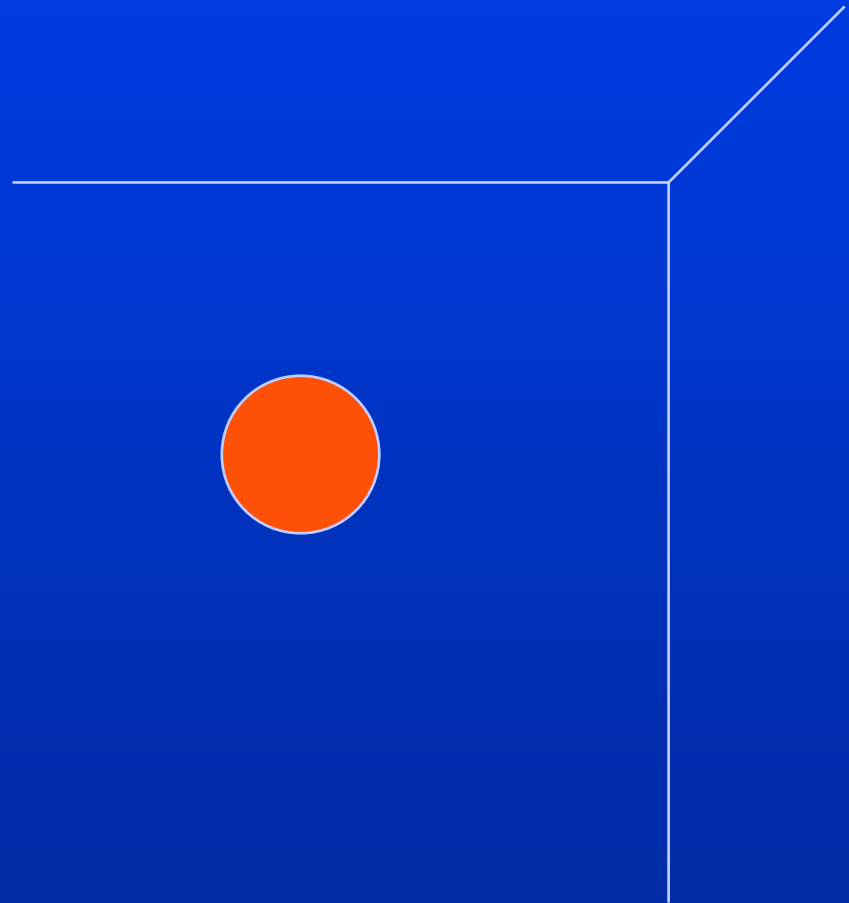
- n When smoke enters the chamber, however, the smoke particles scatter the light and some amount of light hits the sensor
- n The sensor then sets off the horn in the smoke detector.
- n Photoelectric detectors are better at sensing smoky fires, such as a smoldering mattress.



# FIRE PREVENTION AND SAFETY IN THE HOME

## INSTALLATION

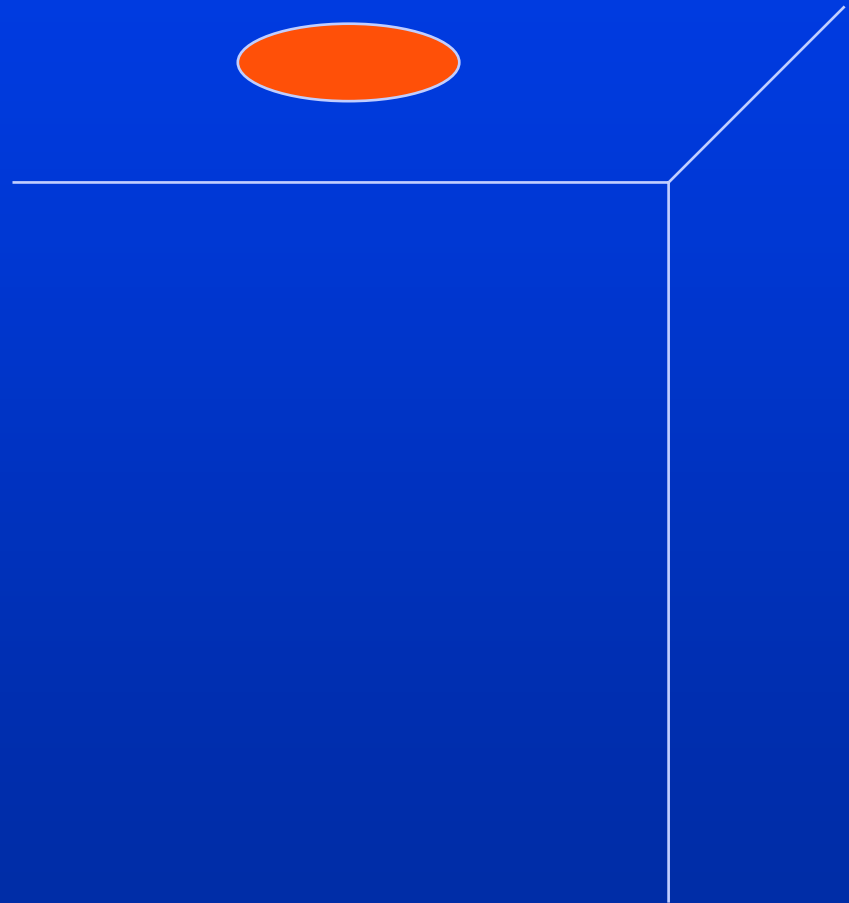
- n WALL MOUNTED
- n 4 TO 12 INCHES FROM THE CEILING



# FIRE PREVENTION AND SAFETY IN THE HOME

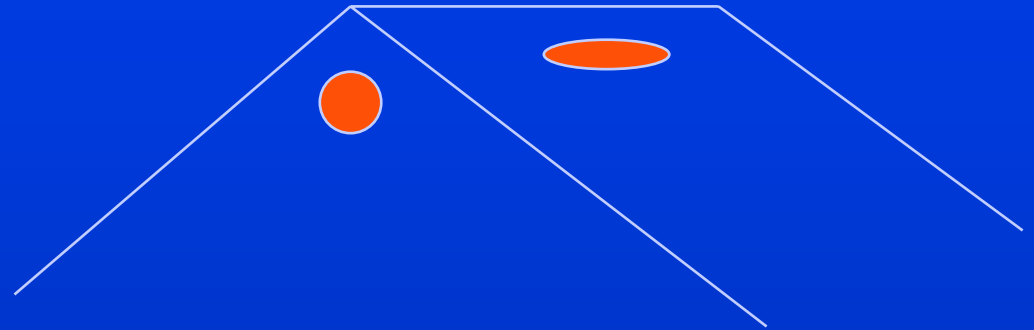
## INSTALLATION

- n CEILING MOUNTED
- n 4 INCHES FROM THE WALL



# FIRE PREVENTION AND SAFETY IN THE HOME

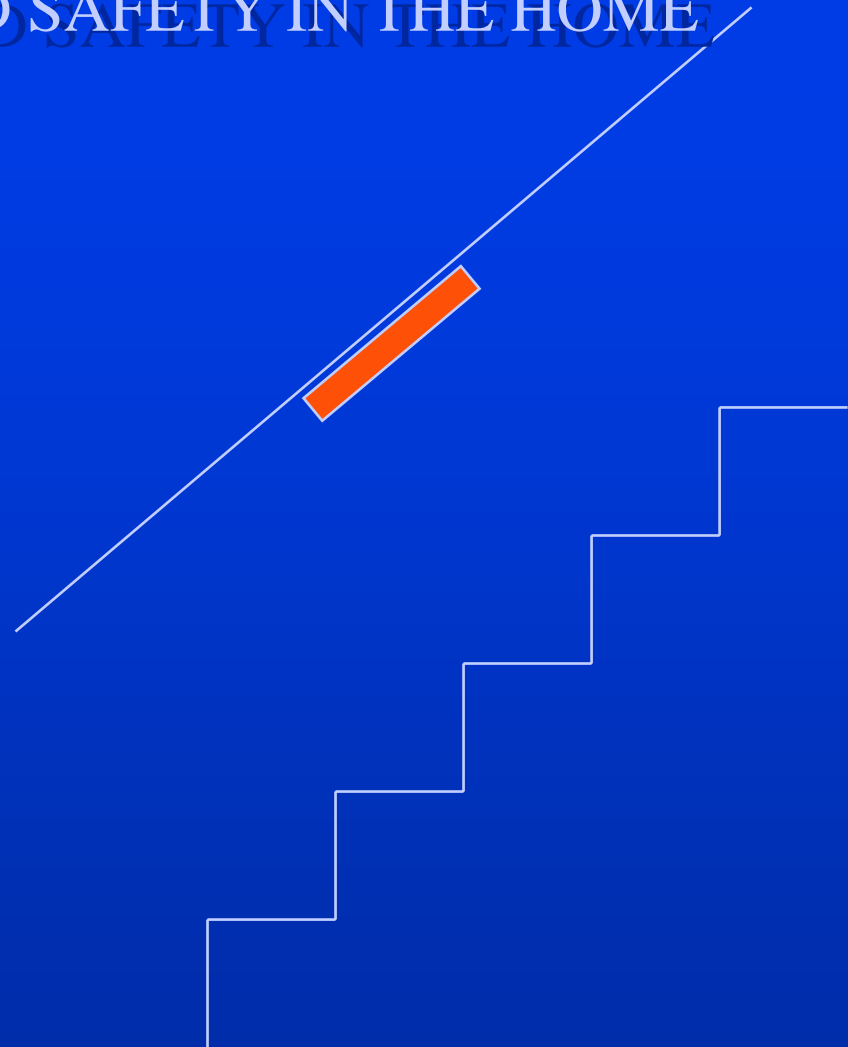
## INSTALLATION



- n PITCHED CEILING MOUNTED
- n AT OR NEAR THE HIGHEST POINT

# INSTALLATION

- STAIR MOUNTED
- MOUNTED
- IN THE PATH OF AIR FLOW UP THE STAIRS



AT THE BOTTOM IF THERE IS A DOOR AT THE TOP

## INSTALLATION DON'TS

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- NEAR A WINDOW
- DOOR
- AIR VENTS
- FIREPLACE
- KITCHENS
- BATHROOMS
- ATTICS
- GARAGES

## MAINTENANCE

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- 🔥 BATTERIES
- 🔥 TESTING
- 🔥 CLEANING
- 🔥 REPLACEMENT

# EDITH

## EXIT DRILLS IN THE HOME

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### DRAW A FLOOR PLAN OF YOUR HOME

- BE THOROUGH
- 2 ROUTES, PRIMARY AND ALTERNATE
- SECOND STORY ROUTES
- REVISE THE PLAN

# EDITH

## EXIT DRILLS IN THE HOME

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### KEEP ESCAPE ROUTES CLEAR

- WINDOWS OPEN EASILY
- OBSTACLES
- ROOFS, BALCONIES, ESCAPE LADDERS
- SECURITY BARS

# FIRE PREVENTION AND SAFETY IN THE HOME

## EDITH

### EXIT DRILLS IN THE HOME

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#### MEETING PLACE

- ONE LOCATION
- IN FRONT OF THE HOUSE

**GET OUT AND STAY OUT!!!**

# EDITH

## EXIT DRILLS IN THE HOME

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### CONTACT THE FIRE DEPARTMENT

- 🔥 911
- 🔥 IDENTIFY YOUR HOME
- 🔥 Where the fire is
- 🔥 Let the dispatcher know if everyone is out!

SEND ONE PERSON TO CALL AFTER  
YOU GATHER AT THE MEETING  
PLACE

# FIRE PREVENTION AND SAFETY IN THE HOME

## EDITH

### EXIT DRILLS IN THE HOME

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#### CHILDREN

- 🔥 “DON’T HIDE, GO OUTSIDE
- 🔥 DON’T GO BACK INSIDE FOR PETS, TOYS...ETC (that’s our job!)

## EDITH

### EXIT DRILLS IN THE HOME

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## EXIT DRILLS EVERY 6 MONTHS

- 🔴 PRACTICE
- 🔴 UNANNOUNCED
- 🔴 REALISTIC
  - ⚡ AT NIGHT
  - ⚡ NO LIGHTS

## SURVIVAL TIPS

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- 🔥 THE SOUND OF THE SMOKE ALARM
- 🔥 BEDROOM DOORS CLOSED
- 🔥 TEST DOORS (if it's hot, don't open)
- 🔥 USE WINDOWS (make sure kids can open)
- 🔥 CRAWL UNDER SMOKE
- 🔥 STOP, DROP, AND ROLL
- 🔥 SPECIAL CONSIDERATIONS

## MAJOR HOME FIRE HAZARDS

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- 🔥 COOKING
- 🔥 SMOKING
- 🔥 HEATING APPLIANCES
- 🔥 ARSON
- 🔥 ELECTRICAL SYSTEMS AND EQUIPMENT
- 🔥 OPEN FLAMES
- 🔥 FLAMMABLE AND COMBUSTIBLE LIQUIDS
- 🔥 PLAYING WITH FIRE

## COOKING

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- 🔥 LEADING CAUSE OF HOME FIRES
- 🔥 STOVE BURNERS, OVENS, MICROWAVES
- 🔥 COUNTERTOP APPLIANCES
  - ⚡ TOASTERS, COFFEE MAKERS, HOT PLATES
  - ⚡ DON'T OVER LOAD OUTLETS
- 🔥 40% OF FATAL COOKING FIRES OCCUR WHEN THE VICTIMS ARE ASLEEP

## COOKING

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### 🔥 GREASE FIRES

🔥 COVER PAN WITH A LID

🔥 TURN OFF THE BURNER

🔥 NEVER POUR WATER ON A GREASE FIRE

## COOKING

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### 🔥 OVEN FIRES

- 🔥 CLOSE THE DOOR
- 🔥 TURN OFF THE OVEN

### 🔥 MICROWAVES

- 🔥 CLOSE THE DOOR
- 🔥 TURN IT OFF

# FIRE PREVENTION AND SAFETY IN THE HOME

## COOKING

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**TURN POT HANDLES IN !!!!!!!**

**POTS CAN'T BE KNOCKED OVER OR PULLED  
DOWN BY SMALL CHILDREN**

## COOKING

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- 🔥 DON'T LEAVE COOKING UNATTENDED
- 🔥 KEEP APPLIANCES CLEAN
- 🔥 WEAR CLOSE FITTING SLEEVES
- 🔥 KEEP FLAMMABLE OBJECTS AWAY
- 🔥 HEAT OIL SLOWLY
- 🔥 KEEP CHILDREN AWAY FROM STOVE

## COOKING

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- 🔥 FIRE EXTINGUISHERS
- 🔥 EFFECTIVE FOR SMALL, CONTAINED FIRES
- 🔥 KNOW HOW TO USE IT
- 🔥 KEEP IN AN ACCESSIBLE PLACE
- 🔥 HAVE THE RIGHT TYPE (B-C)
- 🔥 INSPECT THEM REGULARLY

## COOKING

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- : FIRST AID FOR BURNS
  - RUN COOL WATER FOR 10 TO 15 MINUTES
  - DON'T APPLY BUTTER OR OTHER GREASES
  - SEEK MEDICAL ATTENTION IF NEEDED
    - 911 for paramedics if it is an emergency!
    - Family Doctor if not an emergency

## SMOKING

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- ♦ ITS BAD FOR YOU, ASK THE SURGEON GENERAL
- ♦ LEADING CAUSE OF FIRES THAT RESULT IN DEATH
- ♦ USE AND EMPTY ASHTRAYS
- ♦ CHECK FOR SMOLDERING BUTTS  
(AFTER PARTIES)
- ♦ DON'T SMOKE IN BED

## HEATING APPLIANCES

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- 🔥 SPACE HEATERS
- 🔥 UL LABEL
- 🔥 USE PROPER FUEL
- 🔥 GIVE SPACE HEATERS SPACE
  - 3 FEET FROM COMBUSTIBLE MATERIALS AND WALLS
- 🔥 CARBON MONOXIDE DETECTORS

## HEATING APPLIANCES

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- 🔥 FIRE PLACES
- 🔥 CREOSOTE
- 🔥 CHIMNEY CLEANED AND INSPECTED AT LEAST ONCE A YEAR
- 🔥 MAKE SMALL FIRES
- 🔥 USE A FIREPLACE SCREEN
- 🔥 DON'T BURN TRASH OR PAPER
- 🔥 DON'T USE THE "BOYSCOUT" FIRE STARTER (GAS)

## ELECTRICAL SYSTEMS AND EQUIP

- ◆ GOOD WORKING ORDER
- ◆ ONLY FOR DESIGNED USE
- ◆ ONLY ONE HEAT PRODUCING DEVICE PER OUTLET
- ◆ EXTENSION CORDS
- ◆ PLASTIC CHILD PROTECTORS
- ◆ CRACKS, FRAYS BROKEN PLUGS, LOOSE CONNECTIONS
- ◆ LAMP SHADES

## OPEN FLAMES

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- 🔥 STABLE HOLDERS
- 🔥 DON'T LEAVE UNATTENDED
- 🔥 FLASH LIGHTS INSTEAD OF CANDLES

HOT WAX BURNS

## LIQUIDS

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- 🔥 DON'T STORE GAS IN YOUR HOME
- 🔥 OILY RAGS IN METAL CONTAINER
- 🔥 NO SMOKING OR OPEN FLAMES
- 🔥 APPROVED CONTAINERS

## HOLIDAY SAFETY

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k CANDLES

k CHRISTMAS TREE

k LIGHTS (UL)

# Thank You!

Are there any questions?