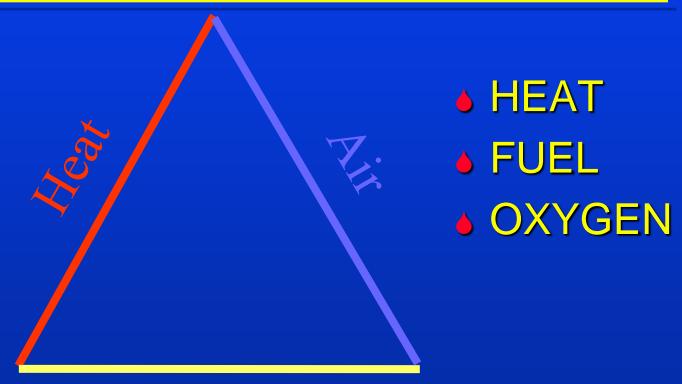
Provided to You by
Lawrence Laviolette CD
Fire Safety Officer

COMMON SENSE!! Prevents Fires

FIRE BASICS



Fuel

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

HOW FIRE KILLS

- SUFFOCATION
- SMOKE AND POISONOUS GASES
 - COMMON —Carbon Monoxide , Hydrogen Cyanide Phosgene, Consuming O2
- HEAT



SMOKE DETECTORS

- **THE FIRST LINE OF DEFENSE**
- ON EVERY LEVEL OF YOUR HOME,
 INCLUDING THE BASEMENT
- OUTSIDE OF EACH SLEEPING AREA
- MORE PREFERBLY IN EACH BEDROOM



TYPES OF SMOKE DETECTORS

- BATTERY POWERED-10 year Lithium
- HOUSEHOLD ELECTRIC POWERED
- IONIZATION SENSOR-PHOTO-SENSOR

NFPA

Smoke Alarm Installations Single family, semi-detached and town homes, whether owner-occupied

Required (OFC-NFC)

- Between each sleeping area and the remainder of the dwelling unit
- If sleeping areas are served by hallways, the smoke alarm shall be installed in the hallway
- smoke alarms must also be installed on each storey of a dwelling unit that does not contain a sleeping area.



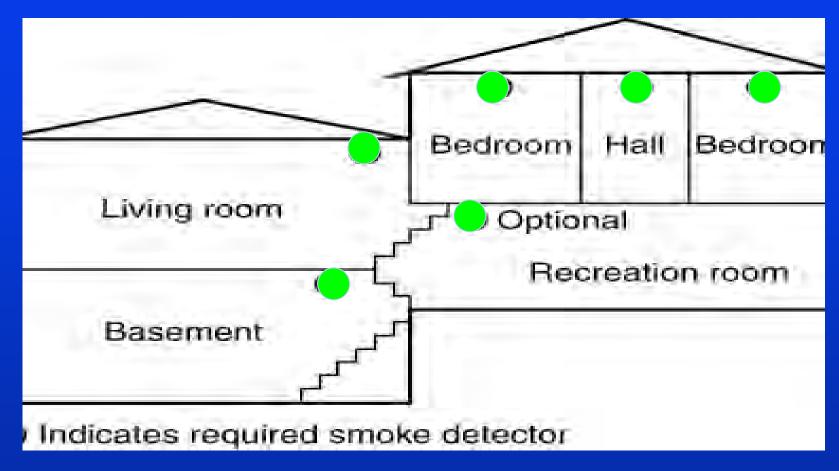
or rented.

In each bedroom Areas separated by a door from the required locations

Smoke Alarms are also recommended:



Not recommended to be installed in kitchens, attics or garages

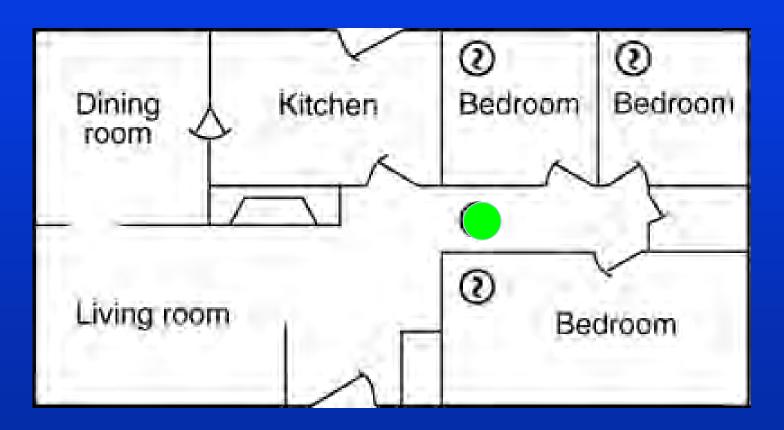


Locations





Locations



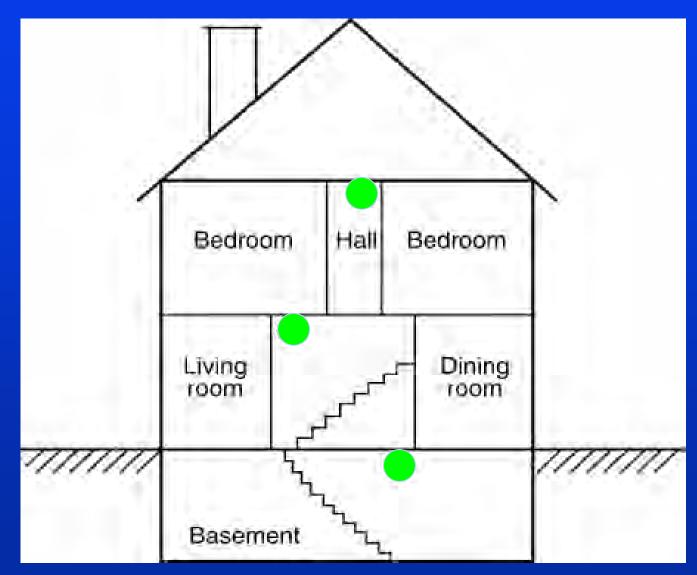


Indicates Required Smoke Alarm

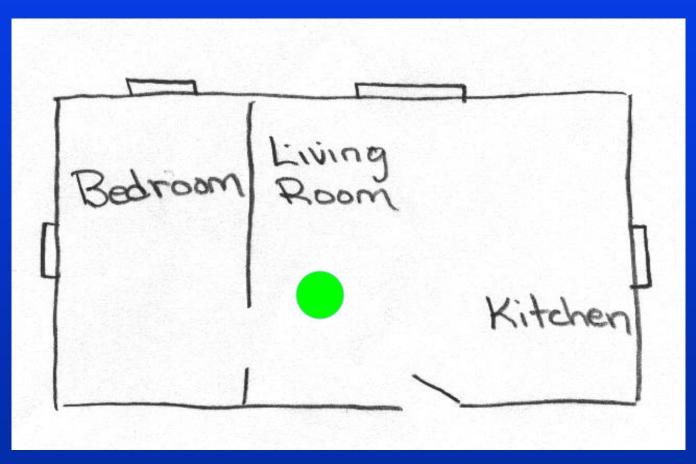


FIRE PREVENTION AND SAFETY IN THE HOME Locations

Indicates
Required
Smoke
Alarm



Locations?

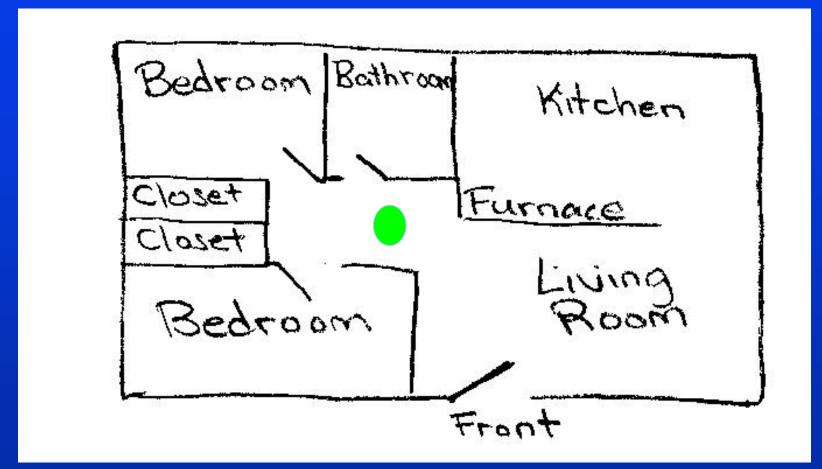




Where should the smoke alarm be installed?



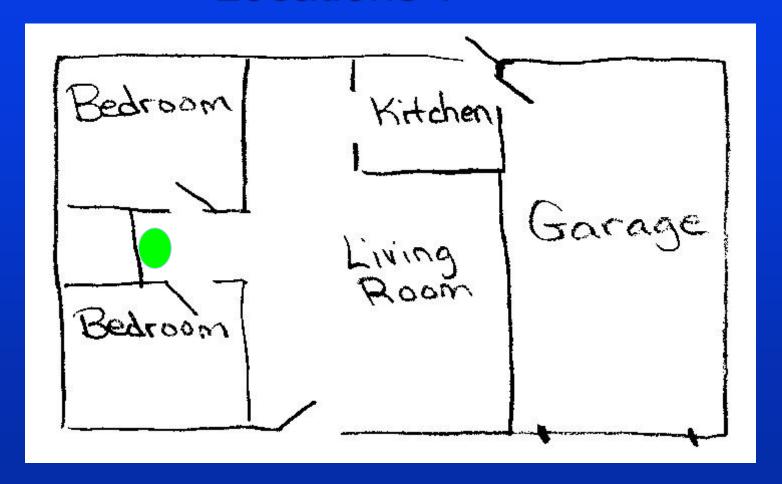
Locations?



Where should the smoke alarm be installed?



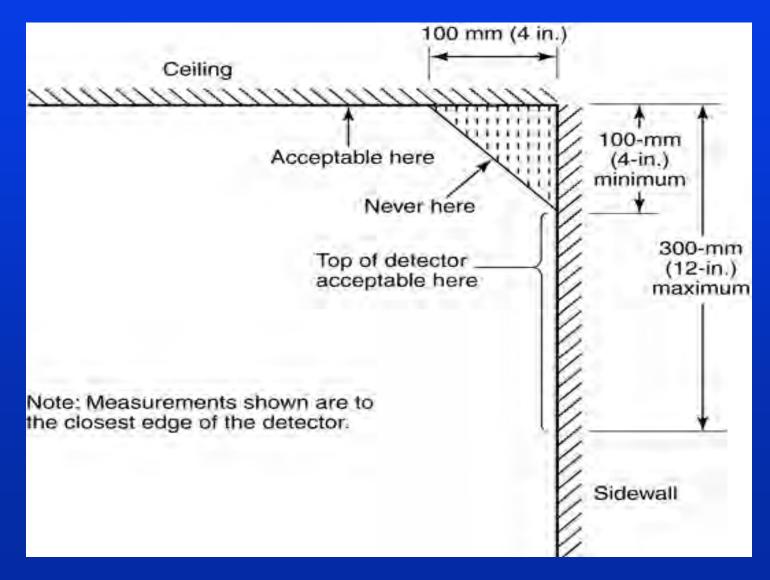
Locations?





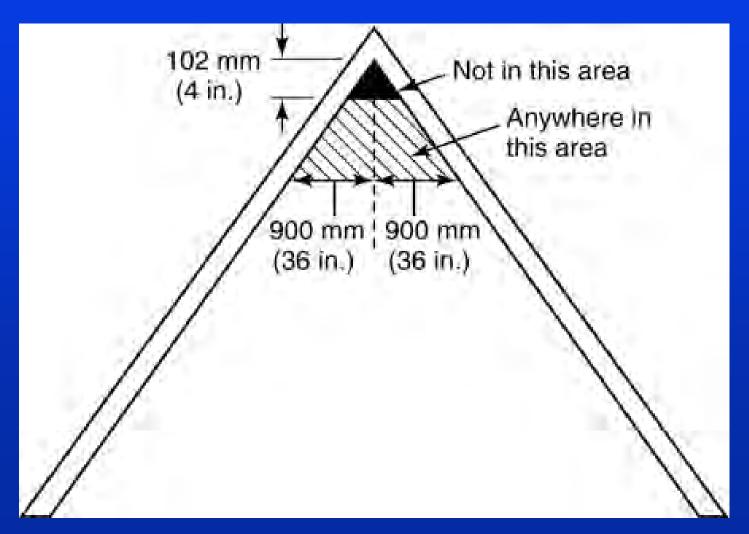
Where should the smoke alarm be installed?

FIRE PREVENTION AND SAFETY IN THE HOME Installation





Installation





Installation Dos and Don'ts

- Not within 1 metre (100cm)of the tips of ceiling fans
- For stairways leading to other occupied levels, not where the smoke would be blocked from reaching the smoke alarm
- For stairways leading up from basements, locate the smoke alarm on the basement ceiling near the entry to the stairs

INSTALLATION DON'TS

Not in areas where temperature or humidity are outside manufacturer's limits (not below 5 $^{\circ}$ C / 40 $^{\circ}$ F or above 38 $^{\circ}$ C /100 $^{\circ}$ F)

Not where mounting surface could become too cold or too hot

Not within 1 metre (100cm) of a bathroom or kitchen door Not within 1 metre (100cm) of a supply air register and not in direct flow path



FIRE PREVENTION AND SAFETY IN THE HOME MAINTENANCE

- **BATTERIES- 9 volts**
- TESTING- Monthly
- CLEANING
- REPLACEMENT-
- Every 10 years

- Test smoke alarms at least monthly – more often if recommended by the manufacturer
- Save the smoke alarm instructions and follow the testing and maintenance recommendations



Questions

CARBON MONOXIDE

This Presentation Was Designed to Give General Information About Carbon Monoxide:



CO Basics- the Hidden Danger At Risk Populations Accidental Poisoning Prevention What to do when you encounter CO

Symptoms of CO Poisoning

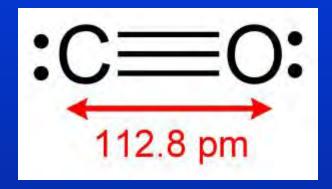
Both the Public and Emergency Responders



TO SAY THAT CARBON MONOXIDE IS DANGEROUS WOULD BE AN UNDERSTATEMENT.

What Is Carbon Monoxide?

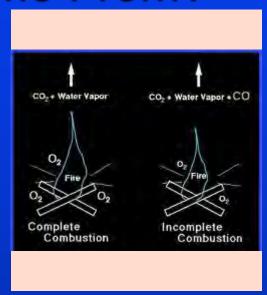
- CO is a compound of Carbon and Oxygen
 - One atom carbon to one atom oxygen
- Colorless
- Odorless
- Tasteless
- POISONOUS Gas



Where Does It Come From?

- CO is Produced by the Incomplete Combustion of Various Fuels (Hydrocarbons), Including:
 - Coal
 - Wood
 - Charcoal

 - Kerosene
 - Propane
 - Natural Gas



Note production of CO from the fire on right



Common Causes of Incomplete Combustion

- Smoldering Fires
- Burning Wet Wood
- Burning Green Wood
- Lack of O₂ During Combustion
- Malfunctioning Appliances
- Malfunctioning Exhaust Systems



Common Sources of Carbon Monoxide Pollution

Wood Stoves and Fire Places Water H

Water Heater and Furnaces







Sources (Cont.)

Vehicle Exhaust

Smoking





More Sources-Common in Power Outages

Portable Heaters





Fuel Operated Motors



The Hidden Dangers of CO

- Carbon Monoxide Poisoning is the Most Common Exposure Poisoning in the United States
- Carbon Monoxide is Not
 Easily Recognized Because
 the Signs and Symptoms
 Are Similar to Those of
 Other Illness
- This Odorless, Colorless Gas Can Cause Sudden Illness and Death





Prevention DO

- DO- Seek Prompt Medical Attention If You Suspect CO Poisoning
- You and/or Family Feeling:
 - Dizzy
 - Light-headed
 - Nauseous
 - Especially if CO Alarm is Sounding





Unlike a smoke detector, which will continue to function as long as 10 Years, A carbon monoxide detector only functions for about five to 6 years.

Approximately 2,500 people are killed each year in residential fires, and another 500 die from carbon monoxide (CO), a colorless, odorless gas that's known as the "silent killer." Installing smoke and CO alarms throughout your home is the first step toward staying safe.





Note the bright blue & uniform flames- indication of Complete Combustion

Complete Combustion

- When a Hydrocarbon Burns Completely
- Usually in Environment Abundant in Oxygen
- Emitting Carbon Dioxide & Water
- Zero Emissions of CO
- Makes Indoor Gas Cook StovesSafe (right)



http://www.cdc.gov/co/

http://emergency.cdc.gov/disasters/co_guidance.asp

http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5650a1.htm

http://www.osha.gov/SLTC/healthguidelines/carbonmonoxide/recognition.html

http://www.carolinafirejournal.com/Articles/ArticleDetail/tabid/191/ArticleId/107/Carbon-monoxide-poisoning.aspx

http://www.carbonmonoxidekills.com/32/carbon_monoxide_facts http://www.osha.gov/Publications/3282-10N-05-English-07-18-2007.html

REFERENCE



Question's

Video

at the End of the Presentation

Carbon Monoxide Poisoning True Story

Approximately 10 Minutes

E.D.I.T.H.

EXIT DRILLS IN THE HOME

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

KEEP ESCAPE ROUTES CLEAR

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



EDITH

EXIT DRILLS IN THE HOME

MEETING PLACE

- ONE LOCATION
- IN FRONT OF THE HOUSE

GET OUT AND STAY OUT!!!



EDITH

EXIT DRILLS IN THE HOME

CONTACT THE FIRE DEPARTMENT

- 911 OR 7 DIGIT NUMBER?
- IDENTIFY YOUR HOME

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



EDITH

EXIT DRILLS IN THE HOME

CHILDREN

- NO WHERE TO HIDE
- DON'T WAIT



EDITH

EXIT DRILLS IN THE HOME

EXIT DRILLS EVERY 6 MONTHS

- PRACTICE
- UNANNOUNCED
- REALISTIC
 - **AT NIGHT**
 - **MO LIGHTS**



SURVIVAL TIPS

- THE SOUND OF THE SMOKE ALARM
- **BEDROOM DOORS CLOSED**
- TEST DOORS
- USE WINDOWS
- CRAWL UNDER SMOKE
- STOP, DROP, AND ROLL
- SPECIAL CONSIDERATIONS



MAJOR HOME FIRE HAZARDS

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



- 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



- GREASE FIRES
 - COVER PAN WITH A LID
 - **TURN OFF THE BURNER**
 - NEVER POUR WATER ON A GREASE FIRE

- OVEN FIRES
 - CLOSE THE DOOR
 - TURN OFF THE OVEN
- MICROWAVES
 - CLOSE THE DOOR
 - TURN IT OFF



COOKING

TURN POT HANDLES IN !!!!!!!

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



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



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



COOKING

+ FIRST AID FOR BURNS

- RUN COOL WATER FOR 10 TO 15 MINUTES
- DON'T APPLY BUTTER OR OTHER GREASES



SMOKING

- 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

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



HEATING APPLIANCES

- 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-POWER BAR
- PLASTIC CHILD PROTECTORS
- CRACKS, FRAYS BROKEN PLUGS, LOOSE CONNECTIONS
- LAMP SHADES, LIGHT BULBS SIZES



OPEN FLAMES

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

HOT WAX BURNS



LIQUIDS

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



HOLIDAY SAFETY

- *** CANDLES**
- **** CHRISTMAS TREE**
- * LIGHTS (ULC and CSA)



Questions On Home Safety