



# WELCOME STUDENTS:

## FIRE DEPARTMENT UNIT SAFETY OFFICER COURSE



- Please sign in – LEGIBLY (Your Certification has your name on it)
- Find a seat (Spread out for social distancing)
- Use your phone with the QR code above to join our Facebook page for Fire Safety Information and share information with your teams.





U.S. ARMY®



# FORT STEWART / HAAF FIRE EMERGENCY SERVICES UNIT SAFETY OFFICER COURSE

2025

**Fort Stewart / HAAF Fire Prevention**



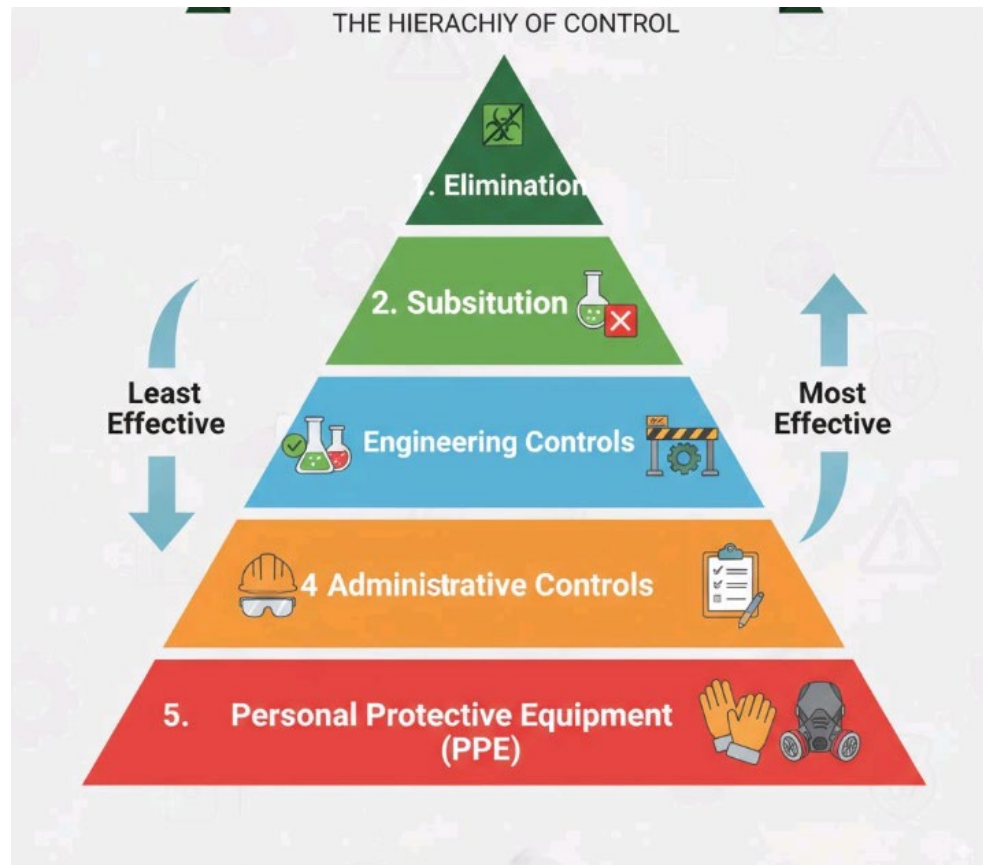
## Overview

- Fire and Life Safety Code Development
- AHJ
- Duties
- Prevention
- Exit/Emergency lights
- Fire Doors
- Common Hazards
- Means of Egress
- Fire Protection Systems
- R.A.C.E. Principle
- Fire Extinguishers
- How to Use a Fire Extinguisher
- Winter Fire Safety
- Fire Codes
- Fire Drills





## Overview (cont.)















# Fire Codes



## Fire Code Development & Origin

- Originated in England in 1666 (Great Fire of London) It consumed 13,200 houses, 87 parish churches, St Paul's Cathedral, and most of the buildings of the City authorities. It is estimated to have destroyed the homes of 70,000 of the City's 80,000 inhabitants
- Established in America mid 1700's
- Standardized in 1904 at the request of Insurance Underwriters (Great Fire of Baltimore) (1,500 buildings )
- Historically Reactive to catastrophic events.
  - (2003) The Station Nightclub Fire (Automatic Sprinklers / Liability) (100)

<b>NFPA 1</b>  <b>FIRE CODE</b>	<b>NFPA</b>  <b>INSTALLATION OF SPRINKLER SYSTEMS</b>	<b>NFPA 20</b>  <b>INSTALLATION OF STATIONARY FIRE PUMPS</b>	<b>NFPA 25</b> INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS 
<b>NFPA 70</b> NATIONAL ELECTRICAL CODE  NATIONAL ELECTRICAL CODE	<b>NFPA 72</b> NATIONAL FIRE ALARM AND SIGNALING CODE 	<b>NFPA 101</b>  <b>LIFE SAFETY CODE</b>	<b>NFPA 2001</b> CLEAN AGENT FIRE EXTINGUISHING SYSTEMS  CLEAN AGENT FIRE EXTINGUISHING





## **Authority Having Jurisdiction**

- **Authority Having Jurisdiction (AHJ) - An organization, office, or individual responsible for enforcing the requirements of a code or standard, or for approving equipment, materials, an installation, or a procedure.**

### **Who is the AHJ ?**

- **The Fire Chief / Fire Prevention Chief is the AHJ on Fort Stewart/Hunter AAF.**
- **The FS/HAAF Fire Inspectors are the “Eyes and Ears” for the Fire Chief when it comes to code interpretation, enforcement and customer relations.**
- **The AHJ may make the fire / life safety code stricter but, may not make the code less strict.**





## Safety Officer Duties



Understand it.

Have a standard of it.



Be aware of it.

Be ready to change it.





## USO Duties

- Ensure a **HIGH** standard of cleanliness within and around facility.
- Ensure that **Evacuation Procedures and HSE signs** are prepared, posted, and made available/visible to every employee and visitor.
- Maintain a list of outstanding service **Work orders, accidents and mishaps** and perform 30-day follow-ups on them.
- Ensure that all **Fire Extinguishers** are kept in good working condition
- Check **Emergency Exit Signs** and **Emergency Exit Lighting** monthly
- Perform **monthly** fire safety check of facility.







## SAFETY OFFICER OMG MOMENT!

- Ensure a **HIGH** standard of safety within and around facility.
- OMG moment, how do you correct?





# SAFETY OFFICER (SO) PREVENTION

- Ensure a **HIGH** standard of safety within and around facility.

## TOOLBOX TALKS THAT LIVES – CRITICAL TOPICS TO BE DISCUSSED

### WHAT ARE TOOLBOX TALKS?



Toolbox Talks are 5-10 minute safety briefings focused on specific job hazards. They raise awareness, prevent injuries, and promote safety culture on every shift.

### HOW TO RUN AN EFFECTIVE TOOLBOX TALK

-  **Start with** a real incident or story
-  **Keep it** topic-specific
-  **Encourage** discussion, not lectures
-  **Do it daily** or weekly

### CRITICAL TOPICS TO BE DISCUSSED

-  **PPE Usage**  
Protect before you perform
-  **Ladder Safety**  
Always 3 points of contact
-  **Electrical Hazards**  
Lock it out or risk it
-  **Fire Safety**  
Know your extinguisher type
-  **Heat Stress**  
Hydrate and rest frequently
-  **Confined Spaces**  
Test air, follow permit
-  **Fall Protection**  
Anchor, harness, secure
-  **Vehicle Safety**  
Inspect, signal, slow down
-  **Emergency Response**  
Know the plan, act fast

Illustration of a toolbox talk session from hscetivassim



## OSHA INSPECTION READINESS CHECKLIST

### DOCUMENTATION

- ☐ OSHA 300, 300A and 301 logs up to date and accessible

### TRAINING

- ☐ Employees trained on hazard communication, PPE, and emergency procedures

### WORKPLACE CONDITIONS

- ☐ Fire extinguishers inspected and accessible

### EQUIPMENT & PPE

- ☐ Machine guarding in place and functional

### RECORDKEEPING & REPORTING

- ☐ All recordable injuries/illnesses logged





# SAFETY OFFICER (SO) PREVENTION

Which HSE sign would you choose?

## ! TYPES OF SAFETY SIGNS IN HSE !

### PROHIBITION SIGNS



No Smoking



No Entry



No Mobile Phones



No Monitors

### MANDATORY SIGNS



Wear Helmet



Wear Goggles



Wear Goggles



Use Ear Protection

### WARNING SIGNS



High Voltage



Flammable



General Sign



General Hazard

### EMERGENCY SIGNS



First Aid



Emergency Exit



Emergency Shower



Your Safety is in Your Hands – Work Smart,ware!



## SAFETY OFFICER (SO) PREVENTION

Educate as much as possible.

**SAFETY  
ISN'T A  
DEPARTMENT—  
IT'S A DECISION.**

### SAFETY RESPONSIBILITIES

Employer & Worker Duties



#### Employer Responsibilities

- ◆ Provide a safe and healthy workplace
- ◆ Conduct regular risk assessments
- ◆ Supply necessary PPE (Personal Protective Equipment)
- ◆ Provide safety training and awareness sessions
- ◆ Report and record workplace accidents
- ◆ Ensure compliance with safety laws and regulations



#### Worker Responsibilities

- ◆ Follow all safety rules and procedures
- ◆ Wear and maintain PPE properly
- ◆ Report hazards, unsafe acts, or conditions immediately
- ◆ Avoid misuse of safety equipment
- ◆ Cooperate with employer in implementing safety measures
- ◆ Take care of their own health and safety, and that of others

**REMEMBER:**  
Safety is a Shared Responsibility –  
Together We Create a Safe Workplace!








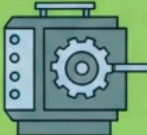






## SAFETY OFFICER (SO) PREVENTION

Educate as much as possible.

### SAFETY IN MAINTENANCE

<b>1. LOCKOUT/TAGOUT (LOTO)</b>  Always isolate power before maintenance	<b>2. PERSONAL PROTECTIVE EQUIPMENT (PPE)</b>  Wear the right gear for the job	<b>3. COMMUNICATION</b>  Inform operators before starting	<b>4. TRAINING</b>  Skilled hands = safer work
<b>5. HOUSEKEEPING</b>  Keep area clean, avoid slips & trips	<b>5. SAFETY GUARDS &amp; SOP</b>  Never bypass safety devices	<b>6. SAFETY GUARDS &amp; SOP</b>  Never bypass safety devices	<b>7. TEAM AWARENESS</b>  Look out for eother





## SAFETY OFFICER (SO) PREVENTION

- **Accidents and mishaps talks** monthly or regularly.

**DIFFERENCE BETWEEN NEAR MISS, INCIDENT & ACCIDENT**

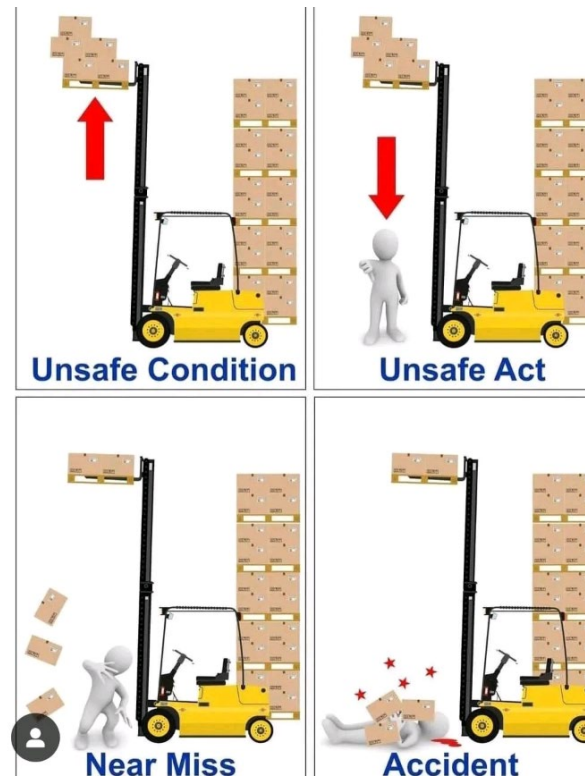
**NEAR MISS**  
**Definition:**  
An unplanned event that did not result in injury or damage, but had the potential to.  
**Example:**  
A worker slips on a wet floor but regains balance and is not hurt.  
**Why It Matters:**  
Near misses are warning signs — addressing them can prevent future accidents.

**INCIDENT**  
**Definition:**  
An unplanned event that disrupts work or causes minor damage, but no injury occurs  
**Example:**  
A forklift knocks over a storage rack, damaging goods, but no one is injured.  
**Why It Matters:**  
It's a sign of procedural or operational failure that must be investigated.

**ACCIDENT**  
**Definition:**  
An unplanned event that results in injury, illness, or property damage.  
**Example:**  
A worker falls from a ladder and fractures a leg.  
**Why It Matters:**  
Accidents have serious impacts — financially, legally, and morally.

**Key Takeaway:**  
"All accidents and incidents start as near misses.  
Reporting and learning from them is the key to a safer workplace."

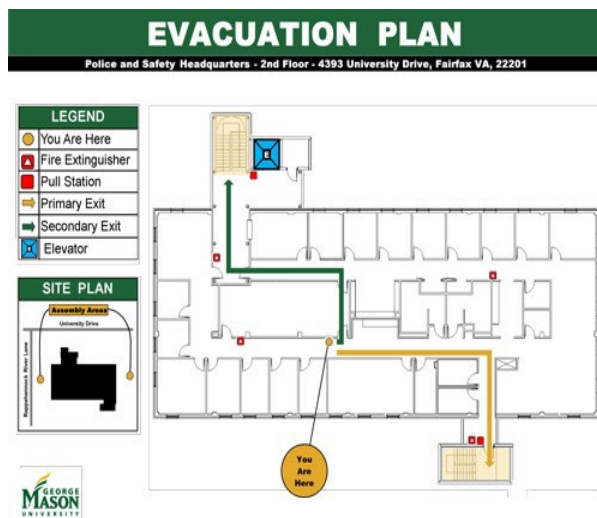
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# SAFETY OFFICER (SO) PREVENTION

- Ensure that **Evacuation Procedures** are prepared, posted, and made available to every employee. **Safety Hazard** information in applicable areas.
- Post completed plans near every entrance, elevator and exit.



## Health Hazards vs Safety Hazards

Health Hazards	Safety Hazards
 Fumes	 Slips & Trips
 Dust	 Electrical
 Toxic Chemicals	 Poor Lighting
 Poor Air Quality	 Falling Objects
 High Temps	 Fire

 Hazards Cause Accidents – Identify Them Before They Identify You



# NFPA 101 Life Safety Code Definitions

## ■ Illuminated

- **Externally Illuminated.** Refers to an illumination source that is contained outside of the device or sign legend area that is to be illuminated.
- **Internally Illuminated.** Refers to an illumination source that is contained inside the device or legend that is illuminated.







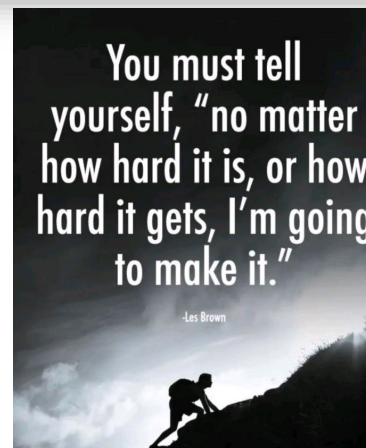


## SAFETY OFFICER (SO) PREVENTION

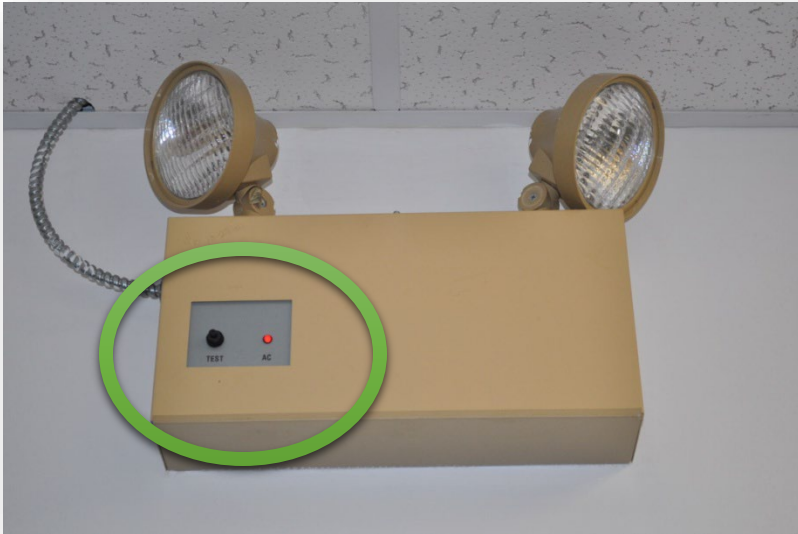
- Check **Emergency Exit Signs** and **Emergency Exit Lighting** monthly.



IF YOU CAN'T  
SEE THE LIGHT,  
BE THE LIGHT.



## Emergency Lights



- Emergency lights are to be tested every month.
- Most emergency lights have a Push to Test Button



## Illuminated Exit Signs



- Exit signs are to be tested every month.
- Most exit signs have a Push to Test Button





## Fire Doors

Smoke Detector

Magnetic Door Release



- These doors will automatically close upon activation of Fire Alarm



# NFPA 101 Life Safety Code Definitions

- **Hardware.**

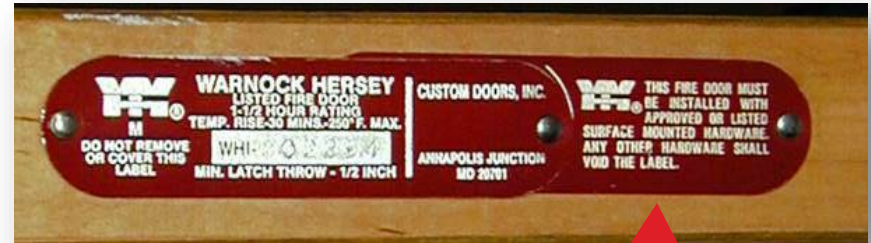
- **Fire Exit Hardware.** A door-latching assembly incorporating an actuating member or bar that releases the latch bolt upon the application of a force in the direction of egress travel and that additionally provides fire protection where used as part of a fire door assembly.
- **Panic Hardware.** A door-latching assembly incorporating an actuating member or bar that releases the latch bolt upon the application of a force in the direction of egress travel.





## Fire Doors

- Fire Doors are everywhere.
- They are not to be blocked or propped open.
- Should have a label on both frame and door



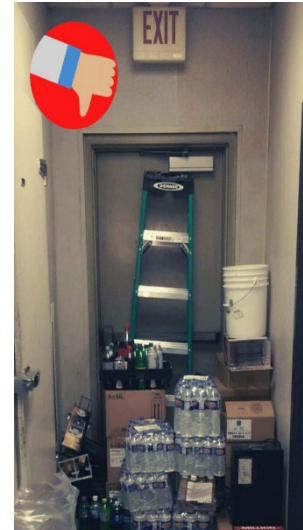
Fire Door Identification





## Common Hazards

- Exit obstructions
- Locked doors
- Broken / Missing door hardware
  - Doorknobs
  - Automatic door closures
- Fire doors and stairwell doors wedged open
- Fire protection equipment obstructions
  - Fire extinguishers
  - Fire alarm pull stations
  - Sprinkler and alarm panel obstructions
- Vegetation overgrowth around buildings
  - Fire break shall maintain 15-feet around buildings





## Common Hazards (cont.)

- **Holes in ceilings and walls**
  - Missing ceiling tiles
  - Unprotected openings for plumbing / electric cables
- **Improper use of electrical appliances and extension cords**
  - Daisy-chained Surge Protectors
  - Heat-producing devices plugged into extension cords / surge protectors
- **Unprotected electric wires, connections, outlets/light switches**
  - Missing / Broken cover plates
  - Frayed wires
  - Flexible cords running through doors, windows, cabinets, ceiling tiles





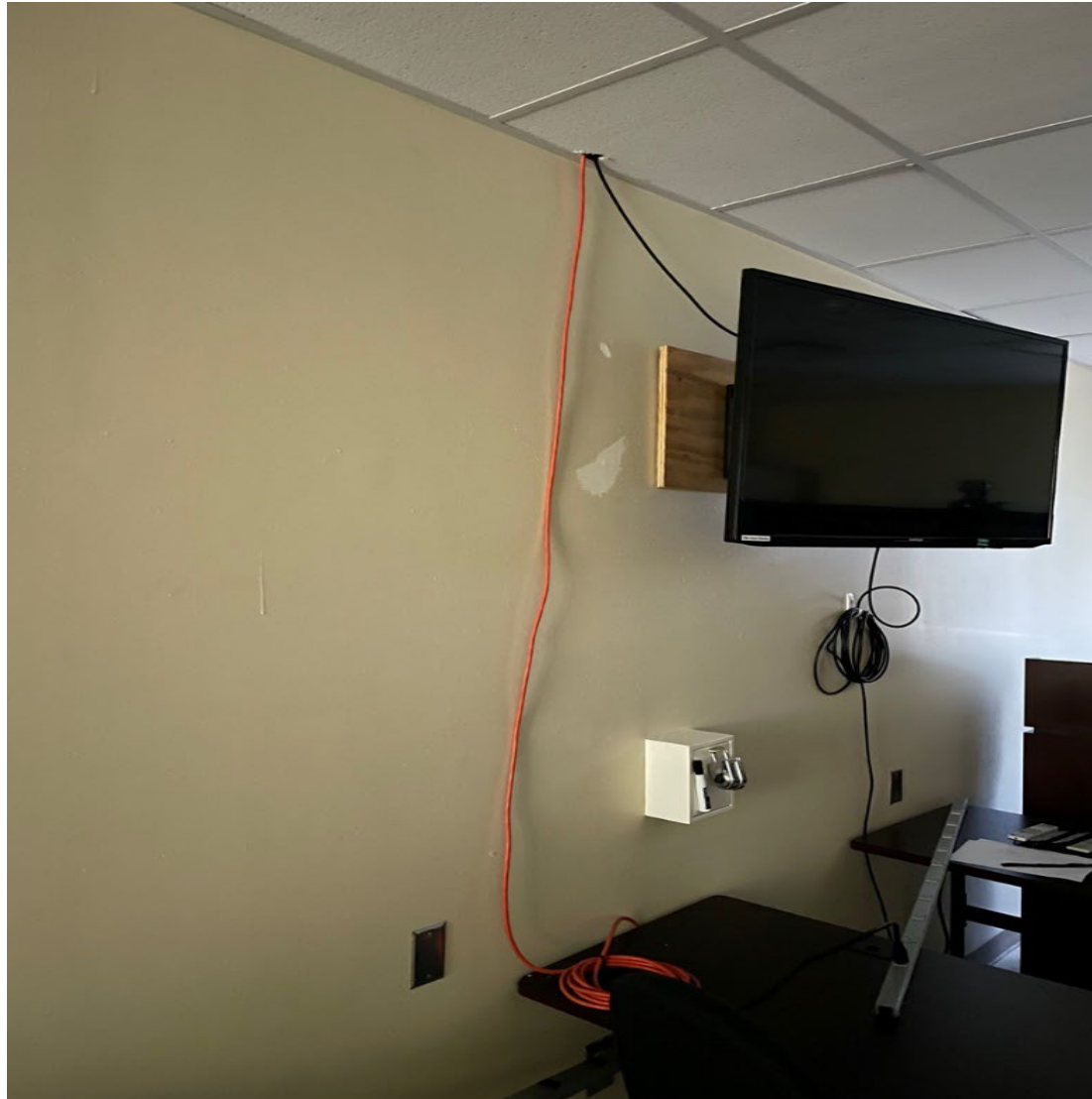


## Electrical Hazards

- Broken or missing outlet and switch covers require replacement.
- An extension cord with multi-outlets, provided with surge protection, AND has an in-line circuit breaker is permitted to be used at all times.
- 30 inches of clear width in front of electrical panels.
- Portable space heaters
  - 36 inches in clear width around the space heater.
  - Shall only be used as last resort for heat

Cover Plate





# DON'T TEXT WHILE WALKING

Hey Team,

Texting while walking may seem harmless – but it's a serious hazard. Your attention is your most important tool on the move. Every year, distracted walking leads to thousands of injuries, some fatal.

## ⚠️ WHY THIS IS DANGEROUS:

- ⚠️ Slowed reaction time: Looking at your phone instead of your surroundings increases your chance of collisions.
- ⚠️ Tripping hazards: Uneven sidewalks, curbs, or objects in your path become invisible distractions.
- ⚠️ Vehicle danger: Pedestrians texting near streets are significantly more likely to step into traffic without noticing.

## ✅ SAFETY TIPS:

- ✅ **Stop to text:** If you need to reply, step aside safely – don't walk and text.
- ✅ **Use audio:** Dictate messages or use voice assistants while walking.
- ✅ **Stay aware:** Keep your eyes on your surroundings, especially near roads, stairs, or crowded areas.
- ✅ **Lead by example:** Encourage others to disconnect from their devices while walking.

**SAFETY TAKES TIME, SO TAKE THE TIME FOR SAFETY.**



## Safety Ninja Tip:

Keep your head up, your phone down, and your feet on solid ground.

Increasing numbers of people are texting and walking inside buildings, parking lots and across the street.

Walking and driving, please be aware of these to avoid injuries or worse.





## Common Hazards (cont.)

- **Improper storage of flammable liquids**
  - Stored in residential / assembly facilities
  - Stored within paths of egress
  - Improperly stored
- **Nonfunctioning exit signs and emergency lighting**
- **Improper discarding of smoking material**
- **Poor housekeeping**
  - Increased fuel-load
  - Increased safety concern for firefighting activities
  - Obstruction of paths of egress



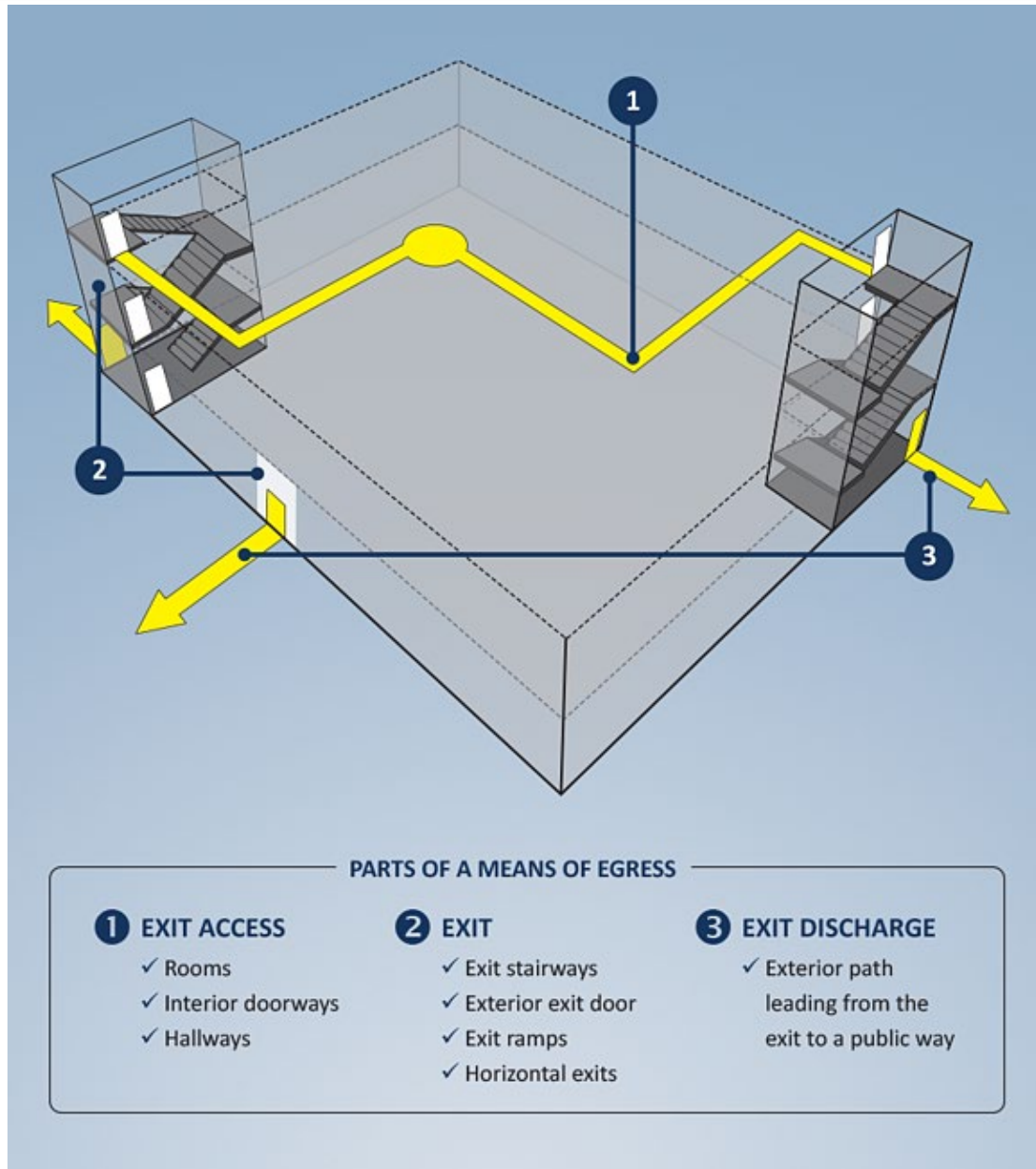




# Components of Building Egress

- **Means of Egress.** A continuous and unobstructed way of travel from any point in a building or structure to a public way consisting of three separate and distinct parts: (1) the exit access, (2) the exit, and (3) the exit discharge.
  - **Accessible Means of Egress.** A means of egress that provides an accessible route to an area of refuge, a horizontal exit, or a public way.
- **Exit.** That portion of a means of egress that is separated from all other spaces of a building or structure by construction or equipment as required to provide a protected way of travel to the exit discharge.
- **Exit Access.** That portion of a means of egress that leads to an exit.
- **Exit Discharge.** That portion of a means of egress between the termination of an exit and a public way.



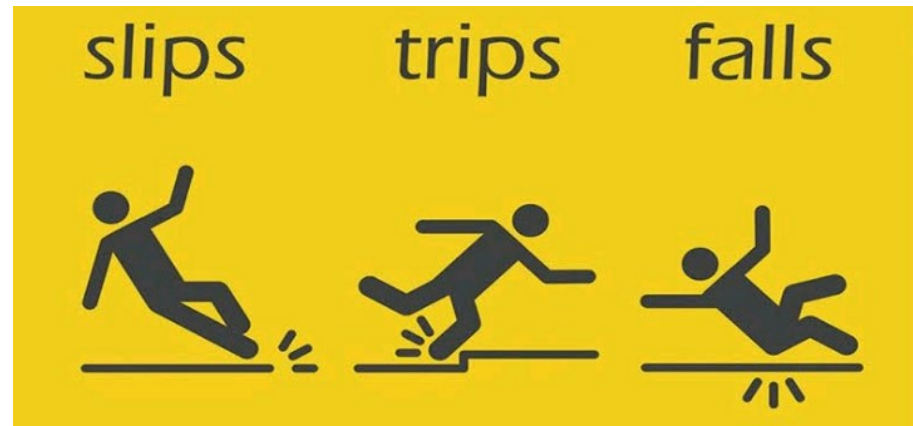




## Means of egress

### Inspection Elements :

- Exit Access
- Exit Markings
- Door Condition
- Door Hardware Condition
- Stairwell Condition
- Encapsulation
- Fire Door Condition









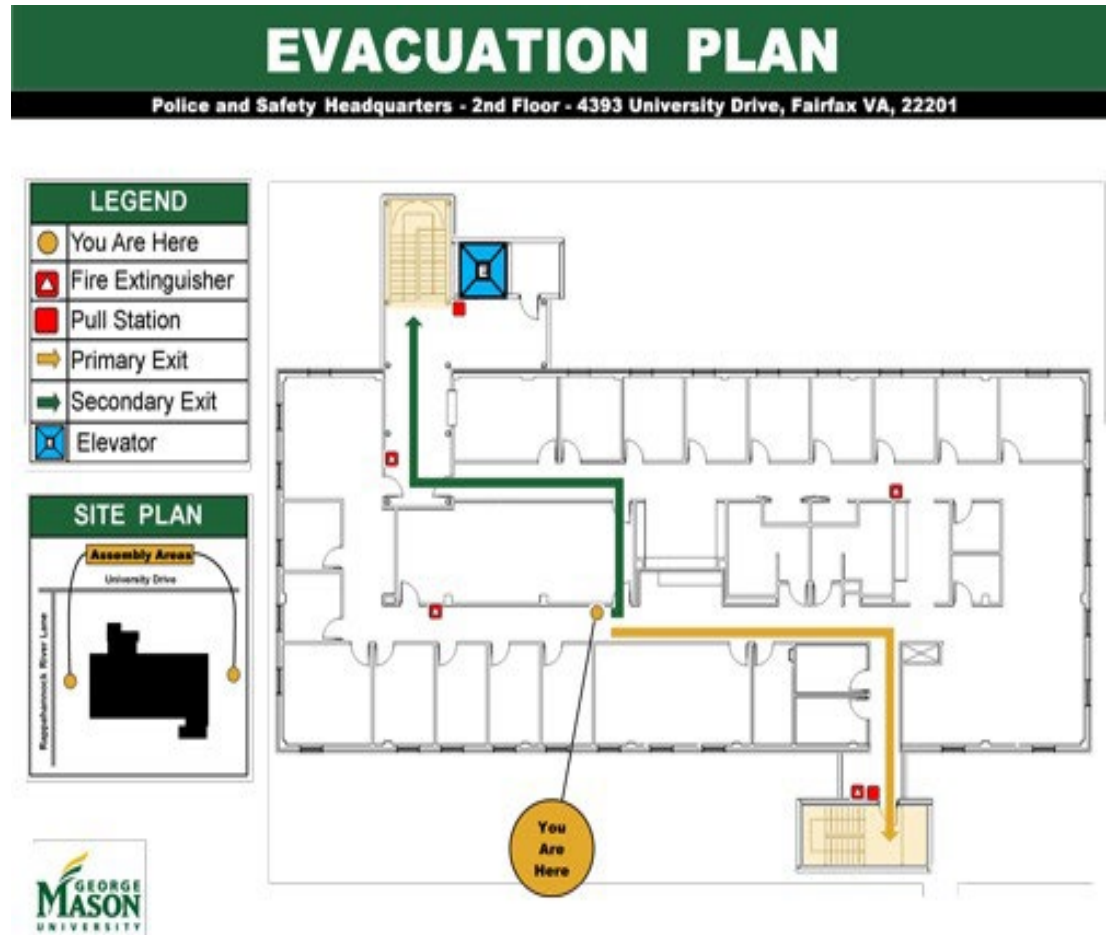
# Evacuation Plan

Real Property Building 1137

Send Mr. Hunnewell an email and ask for a **Floor Plan** for your building. You'll need to know your building number.

571-801-0237

[jonathan.hunnewell.ctr@army.mil](mailto:jonathan.hunnewell.ctr@army.mil)





**Test Time!**













**There are many types of fire protection systems for buildings.**

**The systems are broken down into 2 basic categories**

**Suppression and Detection**



## Fire Protection Systems



# Sprinkler Systems

## Four Types

- Wet
- Dry
- Pre Action
- Deluge





## Sprinkler Systems

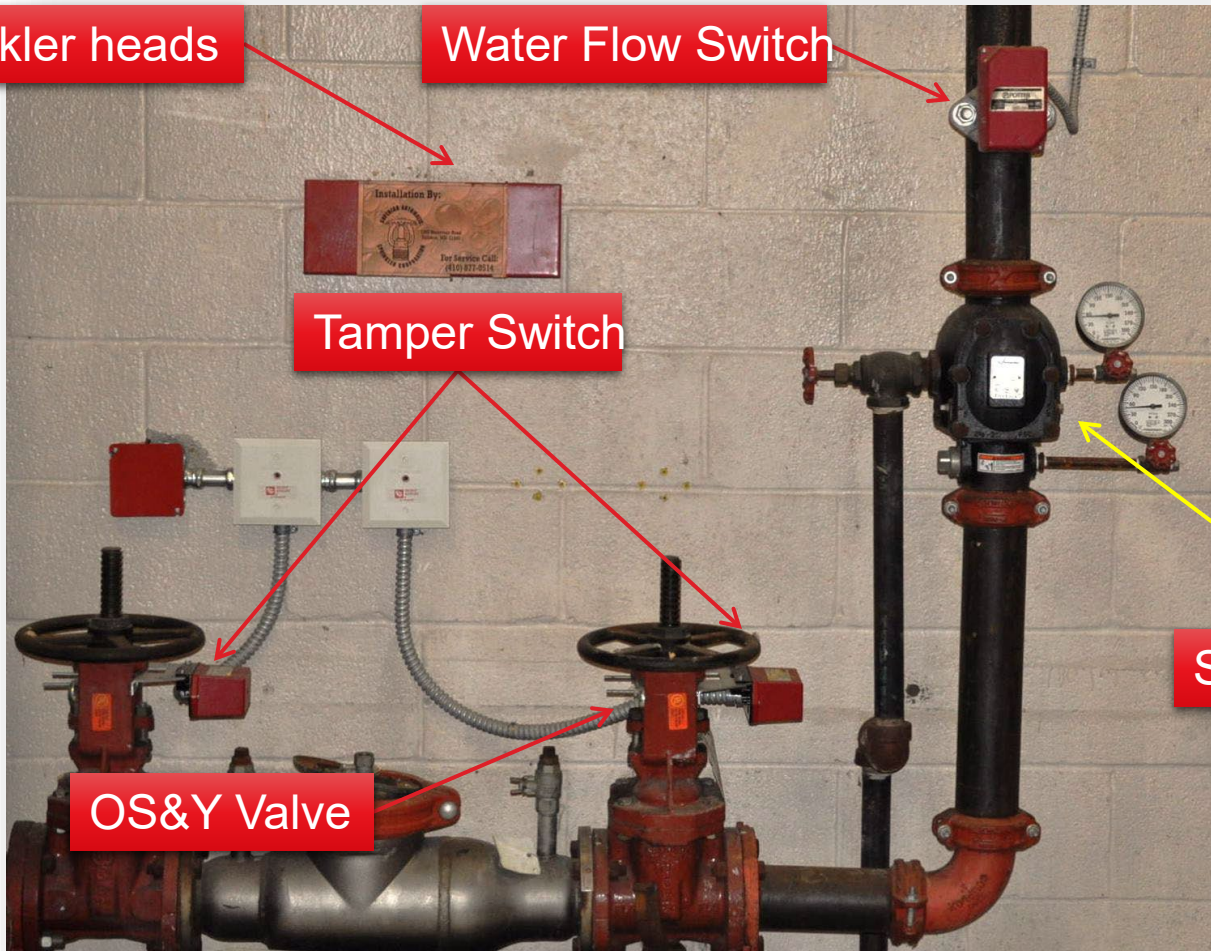
Extra sprinkler heads

Water Flow Switch

Tamper Switch

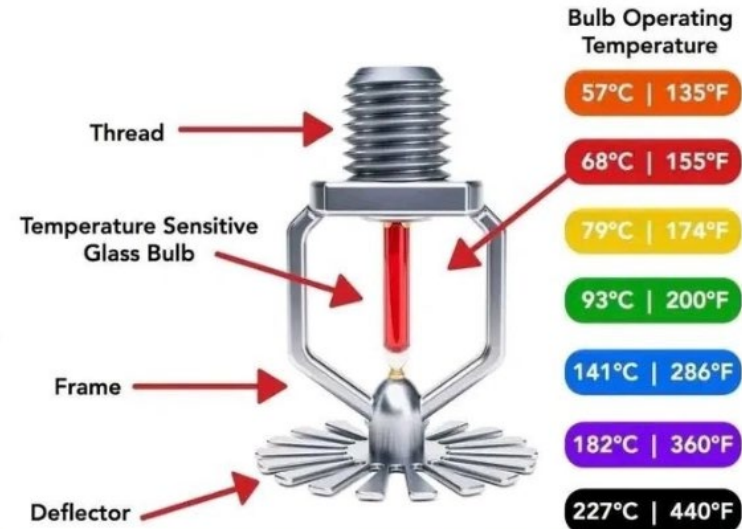
Sprinkler Valve

OS&Y Valve



# Sprinkler Head

All Types use so ensure 18"-24" Clearance from Sprinkler head.



## FIRE SPRINKLER K-FACTOR SELECTION

HAZARD	DESIGN DENSITY (gpm/ft <sup>2</sup> )	SPRINKLER SPACING
Light Hazard	0.05 to 0.10	15 ft × 15 ft
Ordinary Hazard	0.10 to 0.20	12 ft × 12 ft
Extra Hazard	0.15 to 0.30	12.8 × 17 ft
K-factors are in gpm/√psi as per NFPA 13		

# Fire Alarm Systems

**Smoke  
Detector**



**Audio  
Device**



**Audio/Visual  
Device**





# Fire Alarm Systems

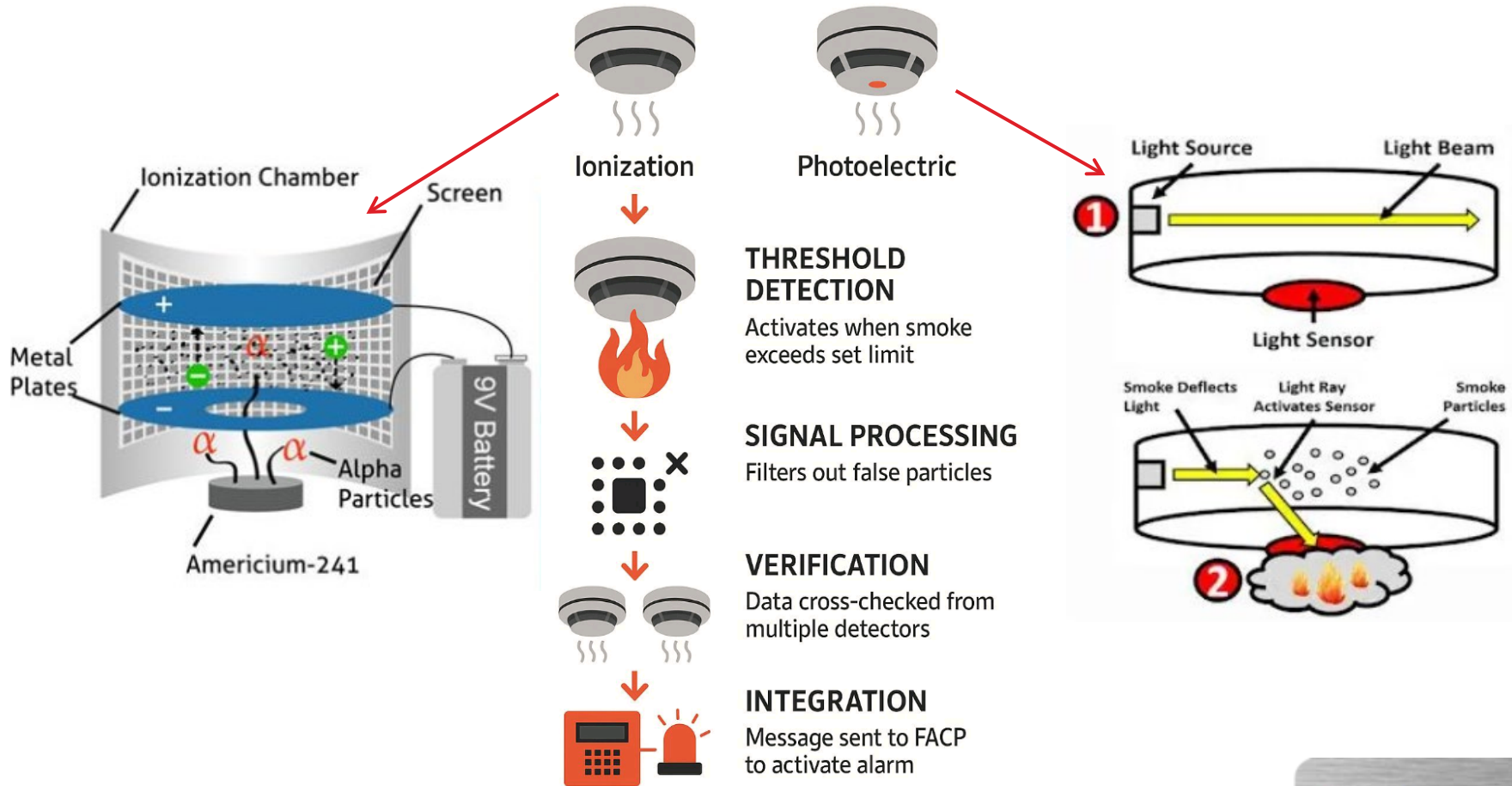
## Audio/Visual Device





# Fire Alarm Systems

## SMOKE DETECTOR LOGIC



# SAFETY OFFICER (SO) PREVENTION

- Newcomer's briefing (**DFAC, CYS, Motor pools & NECs**)

- DFAC- Hood + Duct Systems use & location.
- Motor Pools- Locations with different types of fire Extinguishers.
- NEC electronic storage locations (rooms or under floors).

HVAC  
SHUTOFF



FM200- Disconnect if the system will have anything that can be sensed as "Smoke or Fire". Weather changes, maintenance, leaks in the A/C system



# SAFETY OFFICER (SO) PREVENTION

- Newcomer's briefing (**DFAC, CYS, Motor pools & NECs**)

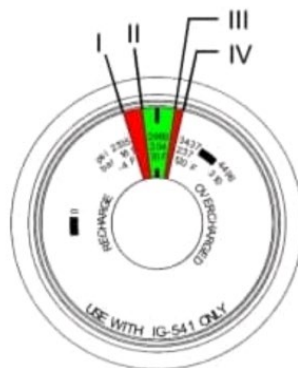
- DFAC- Hood + Duct Systems use & location.
- CYS- Evacuation procedures, Fire Drills + Times.
- Motor Pools- Locations with different types of fire Extinguishers.
- NEC electronic storage locations (rooms or under floors).





# SAFETY OFFICER (SO) PREVENTION

Found in some **Motor pools & all NECs**. Classified as a clean agent. Used to preserve computer equipment after fire extinguishing. –Ensure it's in the **Green!**



**Below I** = Container is below the minimum operating temperature and must be recharged.

**I to II (Red)** = Container pressure is below 95% of normal operating pressure but container is still operable.

**II to III (Green)** = Container pressure is between 95% and 110% of normal operating pressure at 70°F (21°C)

**III to IV (Red)** = Container pressure is above 110% of normal operating pressure but container is still operable.

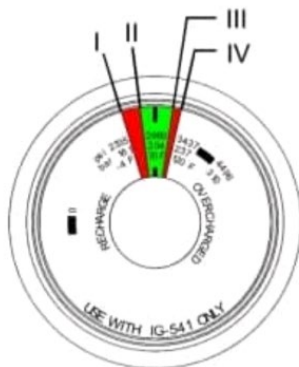
**Over IV** = Container is above the minimum operating temperature and is overcharged.





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# Dfac Hood & Duct System





## Dfac Hood & Duct System



# What is Fire Watch

- The assignment of a person or persons to an area for the express purpose of notifying the fire department, the building occupants, or both of an emergency; preventing a fire from occurring; extinguishing small fires; or protecting the public from fire or life safety dangers. [1, 2012]

## When would we need a Fire Watch ?

- When the building detection and suppression systems are out of service for **more than 4 hours**.

FIRE WATCHER VS FIREFIGHTER	
	
<b>FIRE WATCHER</b> <ul style="list-style-type: none"><li>• Monitors hot work like welding, cutting, and grinding</li><li>• Ensures flammable materials are controlled</li><li>• Equipped with extinguishers and trained to raise alarms</li><li>• First line of defense to prevent fire incidents</li></ul>	<b>FIREFIGHTER</b> <ul style="list-style-type: none"><li>• Responds to emergency fires and rescues</li><li>• Uses advanced equipment to control and extinguish fires</li><li>• Provides emergency medical support when needed</li><li>• Protects lives, property, and the environment during crises</li></ul>



# What is Fire Watch

## FIRE WATCHER VS FIREFIGHTER



### FIRE WATCHER

- Monitors hot work like welding, cutting, and grinding
- Ensures flammable materials are controlled
- Equipped with extinguishers and trained to raise alarms
- First line of defense to prevent fire incidents



### FIREFIGHTER

- Responds to emergency fires and rescues
- Uses advanced equipment to control and extinguish fires
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# R. A. C. E.

✓ **R** ESCUE



✓ **A** LARM



✓ **C** ONFINE



✓ **E** XTINGUISH





# R. A. C. E.

## ✓ **R**ESCUE

- **Rescue yourself first**
  - Get yourself out of harms way





# R. A. C. E.

✓ **R** **ESCUE**

✓ **A** **LARM**

- Alert peers that they need to evacuate (three methods)

- Verbal alert (yell "FIRE")
- Activate building's fire alarm
- Dial 911







# R. A. C. E.

✓ **R**<sub>ESCUE</sub>

✓ **A**<sub>LARM</sub>

✓ **C**<sub>ONFINE</sub>



- Close all doors and windows as you exit the fire area *(if safe to do so).*





# R. A. C. E.

✓ **R** <sub>ESCUE</sub>

✓ **A** <sub>LARM</sub>

✓ **C** <sub>ONFINE</sub>

✓ **E** <sub>XTINGUISH</sub>



• Last resort – ***NOT REQUIRED!***





# R. A. C. E.

**R**ESCUE **A**LARM **C**ONFINE **E**XTINGUISH

Extinguishing a fire is a very dangerous task, especially within a confined space such as the interior of a warehouse, laboratory, office, or other structure/building.

It should only be attempted after ALL other RACE principles have been accomplished AND it is absolutely safe to do so.

Completion of this course does not require that you ever use a fire extinguisher. When in doubt, let the responding firefighters extinguish the fire.





## Fire Extinguishers







## Fire Extinguishers





## Fire Extinguishers

### HOW TO USE A FIRE EXTINGUISHER



**P**ULL THE PIN



**A**IM AT THE BASE OF FIRE



**S**QUEEZE THE LEVER



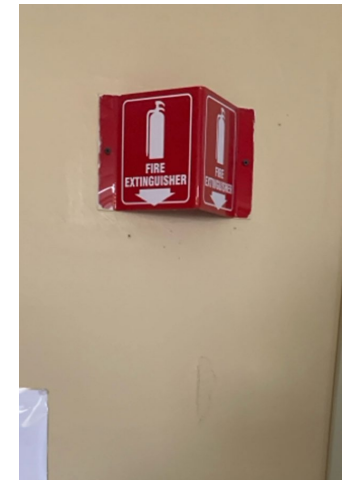
**S**WEEP SIDE TO SIDE





## Fire Extinguishers

- How do we find fire Extinguishers?





## Fire Extinguishers

### Standard for Portable Fire Extinguishers NFPA

#### 10

### Chapter 6 - Installation of Portable Fire Extinguishers

**6.1.1.1** Additional extinguishers shall be permitted to be installed to provide more protection as necessary.

**6.1.2 Extinguisher Readiness.** Portable fire extinguishers shall be maintained in a fully charged and operable condition and shall be kept in their designated places at all times when they are not being used.

**6.1.3.4\*** Portable fire extinguishers other than wheeled extinguishers shall be installed using any of the following means:

- (1) Securely on a hanger intended for the extinguisher
- (2) In the bracket supplied by the extinguisher manufacturer
- (3) In a listed bracket approved for such purpose
- (4) In cabinets or wall recesses







## Duties

- Ensure that all **Fire Extinguishers** are kept in good working condition.
  - What is considered good working condition?
    - Present & Proper extinguisher
    - Pin in place
    - Charged
    - Properly displayed
      - Between 4" and 5' and 1 every 150'
    - Inspected
      - 30-Day (Fire warden)
      - 6-yr or 12yr (Servicing Company)



# Inspection Elements!

What does it mean to have an “in-service fire extinguisher”?

- Valid 6yr or 12yr inspection.
- 30-day inspection
- Has a Charge
- Pin & Seal in place.
- Hose or discharge port.
- Proper type & size.





## Classes of Extinguishers

Symbol	Types/Class of fire	Type of Fire Extinguisher		
		Water	DCP (Dry Chemical Powder)	CO2 (Carbon Dioxide)
Class "A"	Carbon based (wood, rubber, paper, fabric etc.)	Most suitable	May be used	May be used
Class "B"	Liquid (Petrol, oil, thinners etc.)	Not Suitable	Most suitable	May be used
Class "C"	Gases (Acetylene, propane, LPG, Butane etc.)	Not Suitable	Most Suitable	May be used
Class "D"	Metals (Sodium, potassium, magnesium) require special extinguishing agent	Not Suitable	Only Special DPC	Not Suitable
Class "E"	Energized electrical equipment as electrical cable, electrical	Not Suitable	Suitable	Most Suitable

Types/Class of Fire

Water (PW) Fire Extinguishers.-A

Foam Ext.-B/C & E

Dry Chemical Fire Ext.-A/B/C/D\*

CO2 Fire Ext. A/B/C/E

Most Common on Ft. Stewart  
Class ABC (Dry Chemical)

\* = Special Metal X Agent  
(Dry Powder)





## Classes of Extinguishers (cont.)

### KEY DIFFERENCES BETWEEN DRY CHEMICAL AND DRY POWDER FIRE EXTINGUISHERS:



Feature	Dry Chemical	Dry Powder
Target Fire Classes	Class A, B, C fires	Class D fires (combustible metals)
Function	Interrupts the chemical chain reaction in fire (CCR)	Graphite, talc, sodium chloride, copper-based compounds
Common Ingredients	Monoammonium phosphate (ABC) Sodium/potassium bicarbonate (BC)	Focus on the process instead of the final result.
Application Scope	Can be used on a wide range of fires, including electrical	Designed specifically for metal fires only
Misuse Risk	Generally safe across multiple fire types	Dangerous if used on non-metal fires; ineffective and may even react





## Inspection Elements!

### FIRE EXTINGUISHER INSPECTION POINTS

NOTE: FIRE EXTINGUISHER SHOULD PLACE IN SHADED AREA

HANDLE IS IN GOOD CONDITION

MONTHLY INSPECTION TAG AVAILABLE



SEAL AVAILABLE (YELLOW BAND)



GAUGE IS IN CONDITION. (NEEDLE IS ON GREEN MARK IN GAUGE)

3<sup>rd</sup> PARTY STICKER HAVE OR NO (VALID FOR 1 YEAR)



LABEL IS GOOD AND CLEAN

HOSE IN GOOD CONDITION

BOTTOM AND BODY GOOD WITHOUT ANY DAMAGE (CRACKS OR PAINT DAMAGE OR RUST)

HOSE HOLDER IN GOOD CONDITION

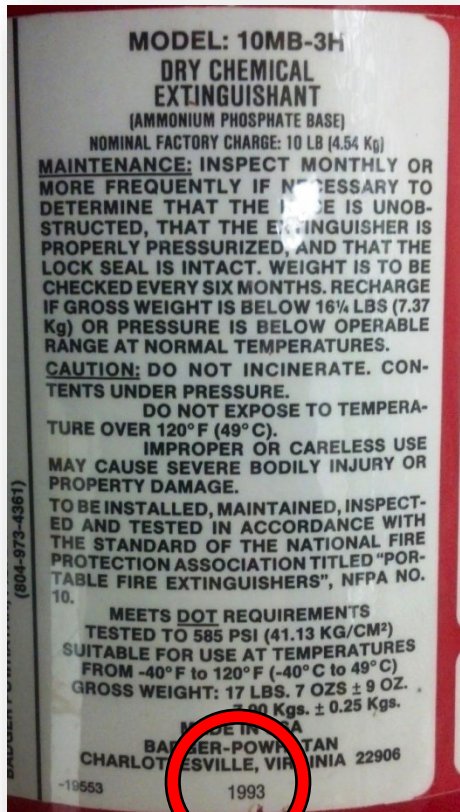




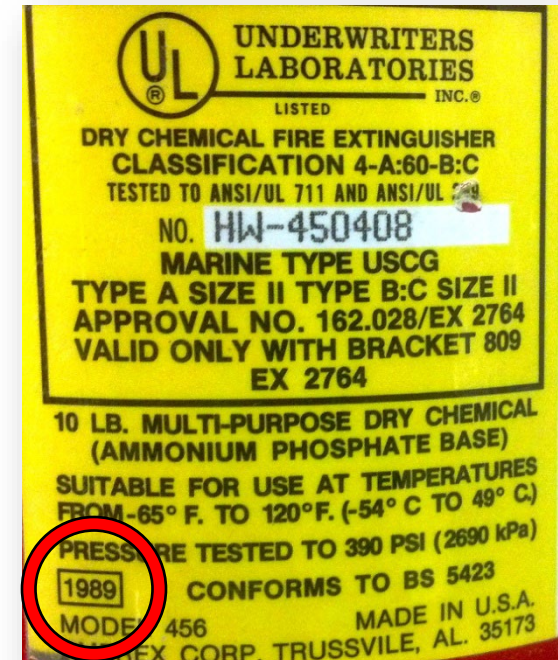
## Inspection Elements!

### Standard for Portable Fire Extinguishers NFPA 10

#### Chapter 8 - Hydrostatic Testing



**Hydrostatic  
Dates are in  
different  
locations**



## Fire Extinguishers

Standard for Portable Fire Extinguishers NFPA 10

### Chapter 8 - Hydrostatic Testing

<input type="checkbox"/> 6 YR. MAINT.		<input checked="" type="checkbox"/> HYDROSTATIC TEST											
APG FIRE DEPARTMENT ABERDEEN PROVING GROUND, MD 21005-5001													
2010 2009 2008 2007 2006	Tested	1	2	3	4	5	6	7	8	9	0	TESTER	
	To	1	2	3	4	5	6	7	8	9	0		
	(PSI)	1	2	3	4	5	6	7	8	9	0		
MONTH		1	2	3	4	5	6	7	8	9	10	11	12

**Retested  
Extinguishers**



**\*\* Inspection of Hydro date should be looked at during the inspection**





## Fire Extinguishers (cont.)





What does it mean to have a RUSOH “in-service fire extinguisher”?

NO MORE

- NO- 6yr or 12yr inspection.
- NO- Pin & Seal in place.

CONTINUED

- YES- 30-day inspection
- YES- Has a Charge
- YES- Hose or discharge port.
- YES- Proper type & size.



What does it mean to have a RUSOH “in-service fire extinguisher”?

- YES- 30-day inspection
  - Continue to do these- I have tags
- YES- Has a Charge
  - Not stored under pressure
  - Check Expellant cartridge
  - Fluff agent to remove density
- YES- Hose or discharge port
  - Check hose regularly.
- YES- Proper type & size.



# The Check

## Inspection Elements!

- Check size & Type for location matching
- Fluff Agent with Fluffing wheel (Bottom)
- Check expellant Cartridge (Top)
- Check hose for damage
- Check handle for damage
- **Is there Damage!**
- ✓ If so, replace damaged parts yourself





## The Repair

### RUSOH™ ELIMINATOR™ RELOADABLE

#### WRENCH SET

This handy two-part wrench set is a must for reloading your Rusoh® Eliminator®. It consists of a cartridge wrench and a bar wrench. The cartridge wrench holds the agent container securely in place, enabling the user to rotate the extinguisher's discharge head and the Reloadable kit cap with the bar wrench. The base wrench can be used on any level floor surface. Alternatively, it can be permanently mounted to a work surface using the mounting holes provided. (Base supply now has them for sale)







## AHJ Guidance Development

- Citing the NFPA 10, 1.2.2:
  - Accounts for the Rusoh as new innovative technology.
- Development for individual use and maintenance:
  - What:** Rusoh Fire Extinguisher does require annual certification. It does NOT require an NFPA 10 Certification from a specialized vendor.
  - Why:** The interpretation of the state annual certified inspection is based on outdated code, as current regulations do not account for non-pressurized extinguishers.
  - Who:** All users



## Rusoh Fire Extinguishers

- Fire extinguishers that can be refilled by the user.





## Christmas Safety





## Winter Statistics



- ✓ **905 people die in winter home fires each year.**
- ✓ **\$2,091,000,000 in property loss occurs from winter home fires.**
- ✓ **67 percent of winter fires occur in one- and two-family homes.**
- ✓ **Cooking is the leading cause of all winter home fires.**
- ✓ **5 to 8 p.m. is the most common time for winter home fires.**







# Furnace Heating



- ✓ It is important that you have your furnace inspected to ensure that it is in good working condition.
- ✓ Be sure all furnace controls and emergency shutoffs are in proper working condition.
- ✓ Leave furnace repairs to qualified specialists.
- ✓ Check the flue pipe and pipe seams.
- ✓ Is the chimney solid, with cracks or loose bricks?
- ✓ Keep trash and other combustibles away from the heating system.





# Other Fire Safety Tips



- ✓ **Never discard hot ashes inside or near the home.**
- ✓ **Never use a range or an oven as a supplemental heating device.**
- ✓ **If you use an electric heater, be sure not to overload the circuit.**





# Turkey Fryer Hazards



- ✓ With no thermostat controls, the units also have the potential to overheat the oil to the point of combustion.
- ✓ The lid and handles on the sides of the cooking pot get dangerously hot, posing severe burn hazards.





# Turkey Fryer Hazards



- ✓ Many units easily tip over, spilling the hot oil from the cooking pot.
- ✓ If the cooking pot is overfilled with oil, the oil may spill out of the unit when the turkey is placed into the cooking pot.
- ✓ Partially frozen turkeys placed into the fryer can cause a spillover effect.







# Mishap Management?





# COMPLETELY PREVENTABLE!!!





# But I need it **Fried**



- ✓ **Fryers should be used outdoors!**
  - Safe distance away from buildings or Flam Materials
- ✓ **Never inside a garage.**
- ✓ **Flat Surface! Avoid Tipping**
- ✓ **No Children, No Pets.**
- ✓ **Don't Overfill**
- ✓ **Completely thawed!**





# Christmas Trees!!!







# Christmas Tree Safety



**NIST**

**National Institute of Standards  
and Technology  
Technology Administration  
U.S. Department of Commerce**





# Picking a Tree



- ✓ **Choose a tree with fresh green needles**
  - Don't fall off when you touch them.
- ✓ **Cut 2 inches from the base of the trunk**
- ✓ **Make sure tree is not blocking an exit**
- ✓ **Add water to the tree stand.**
  - Be sure to add water daily.





# Lighting the Tree



- ✓ **Keep trees at least 3 feet away from any heat source.**
  - IE: Fireplaces, Candles, Heat vents, or Lights
- ✓ **Use Lights that have the label of a recognized Independent Lab**
  - Check for Indoor / Outdoor use.
- ✓ **Replace/Check lights with worn or broken cords/loose bulb connections**
- ✓ **Always turn off lights before leaving home or going to bed.**





# After Christmas/Holidays



- ✓ **Get rid of tree when it is dry**
- ✓ **Dried-out trees are a fire danger and should not be left in the home or garage, or placed outside against the home.**
- ✓ **Recycle**







# Christmas Tree FACTS



- ✓ **One of every three home Christmas tree fires are caused by electrical failures**
- ✓ **Although Christmas tree fires are not common, when they do occur, they are more likely to be serious.**
- ✓ **A heat source too close to the tree causes roughly one in every five Christmas tree fires.**

Source: [NFPA.org](http://NFPA.org)





## Fire Codes










# Fire Codes



## Fire Code Development & Origin

- We talked about it!
- These cover what is found in the UFC, DODI

<b>NFPA 1</b>  <b>FIRE CODE</b>	<b>NFPA</b>  <b>INSTALLATION OF SPRINKLER SYSTEMS</b>	<b>NFPA 20</b>  <b>INSTALLATION OF STATIONARY FIRE PUMPS</b>	<b>NFPA 25</b> INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS 
<b>NFPA 70</b> NATIONAL ELECTRICAL CODE  <b>NATIONAL ELECTRICAL CODE</b>	<b>NFPA 72</b> NATIONAL FIRE ALARM AND SIGNALING CODE  <b>NATIONAL FIRE ALARM AND SIGNALING CODE</b>	<b>NFPA 101</b>  <b>LIFE SAFETY CODE</b>	<b>NFPA 2001</b> CLEAN AGENT FIRE EXTINGUISHING SYSTEMS  <b>CLEAN AGENT FIRE EXTINGUISHING</b>



## What is the Code Violation

Door Being Held Open



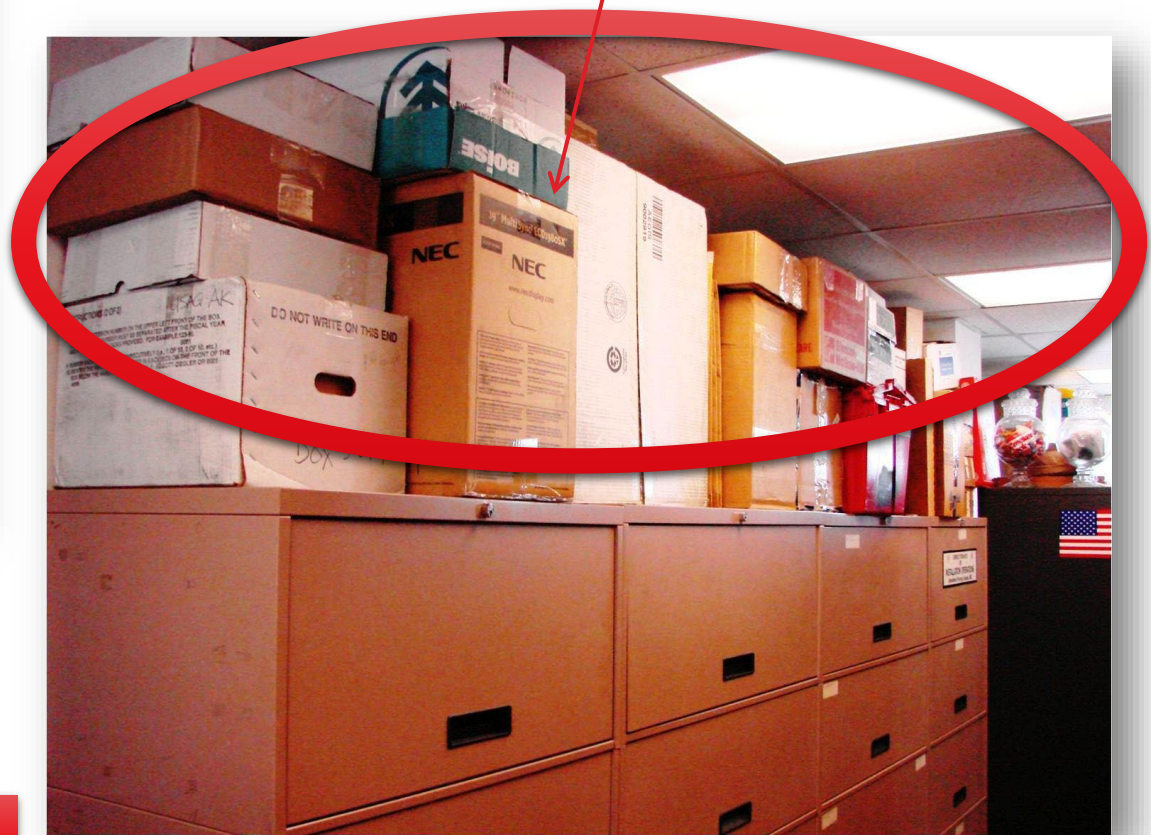


## Over Loaded Combustibles



Trash & Leaves

Poor Housekeeping





# FIRE DEPARTMENT FACILITY MANAGER COURSE



Poor Housekeeping



Over Loaded Combustibles





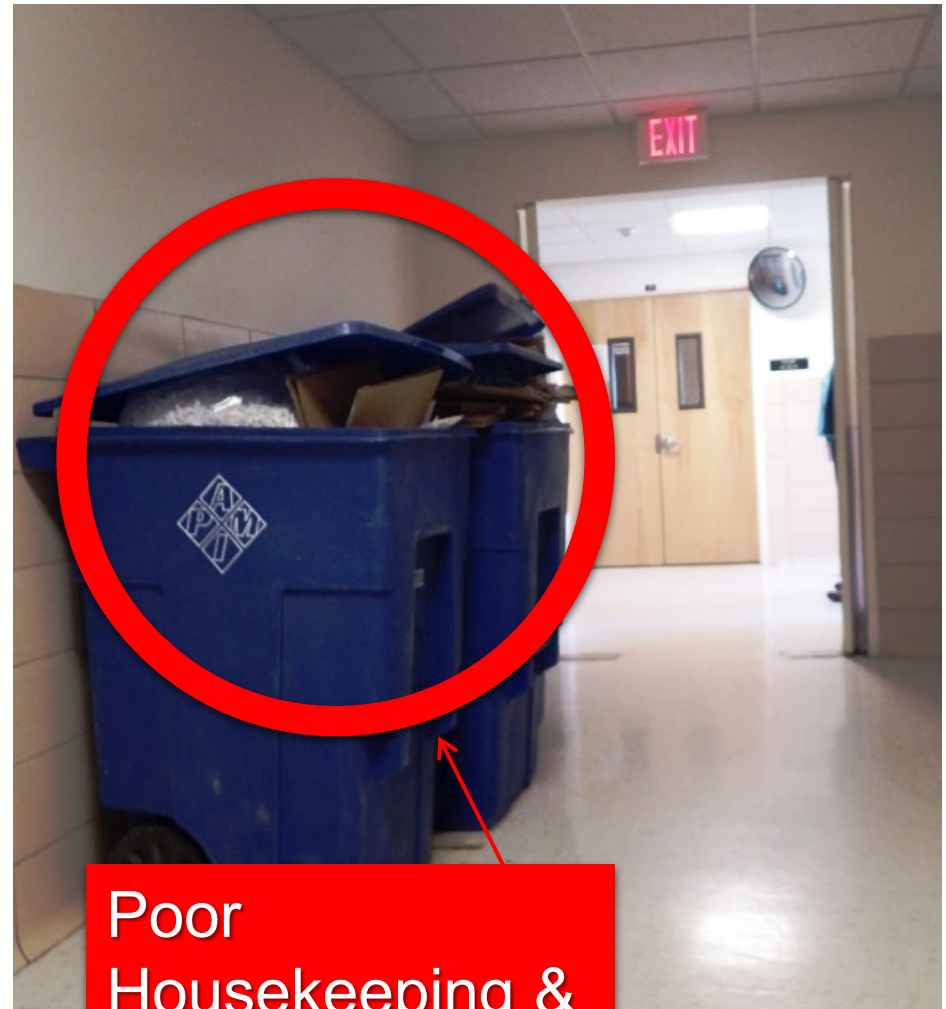


# FIRE DEPARTMENT FACILITY MANAGER COURSE





Storage under stairs



Poor  
Housekeeping &  
Blocking Egress





Wrong type of  
containers

Blocking  
Extinguisher





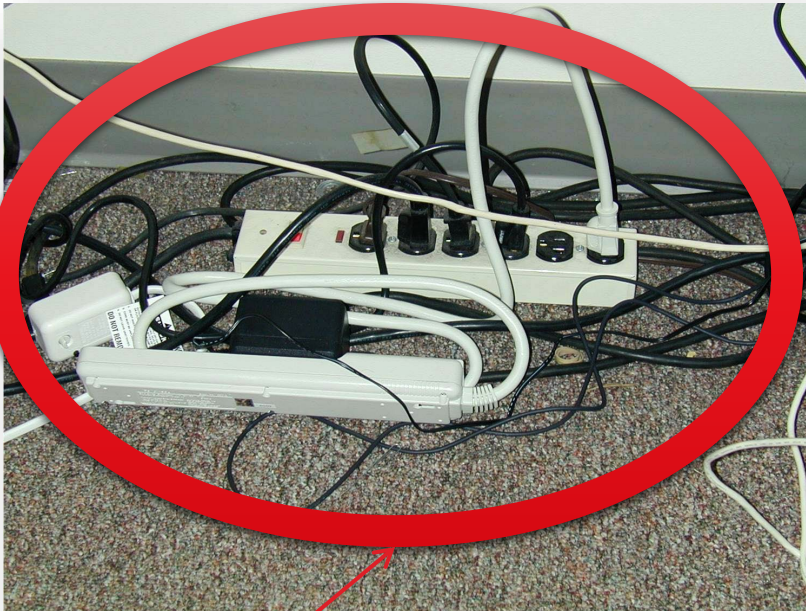
# FIRE DEPARTMENT FACILITY MANAGER COURSE



Holes in Wall  
& Ceilings







Daisy Chain



Heater, Daisy chain, Extension cord



Combustible surface

Daisy Chain, Overloaded  
Power Strips.....





# FIRE DEPARTMENT FACILITY MANAGER COURSE



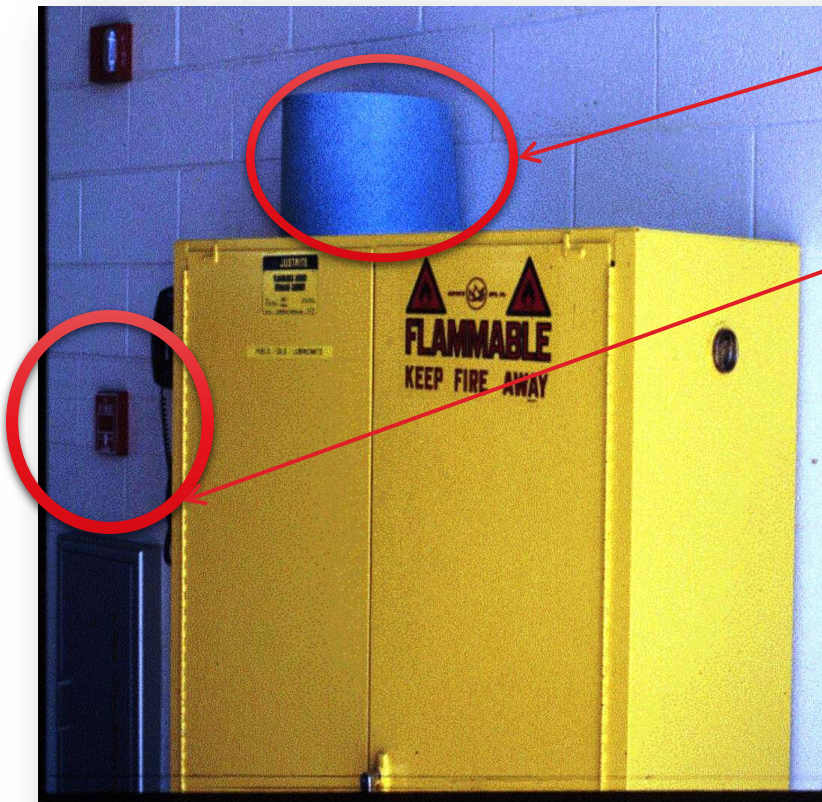
Storage.... Flammable  
locker blocking Egress....

Separation from  
building 15 Feet.



Storage on top of locker?

Is this a good location for the Locker?





Welding Shop

Proper storage?





## Safety Officer Fire Drills

- Facility Managers can perform **Fire Drills** your facility.
- Using **Voice Commands Only!**
- **DO NOT** activate Fire Alarm System.
- 2 minutes- **EXIT THE BUILDING.**







Is this true?





## Performing Quality Inspections

- **Develop a routine**
- **Begin outside then move inside**
- **Inspect from the ground - up**
- **Do not begin in the center of the buildings to ensure that the entire building is thoroughly inspected**
- **Avoid distractions (Don't text while walking)**
- **Take detailed notes during inspection**
- **Create & use an Inspection Form as a checklist**
- **Attach any notes with the form and keep for records**
- **Report any major findings to the Safety/Fire Prevention Branch**





## FS/HAAF Fire Emergency Services Fire Prevention POCs

### Assistant Chief of Prevention:

Jay McGraw (571) 801-1576

### Lead Fire Inspector:

Larry Hodges (864) 992-3447

### Fire Inspectors:

**Fort Stewart**

**Travon Sanders**

**Bates Corey**

**Hunter AAF**

**Nazario Fabela**

### *Inspection Office:*

*Fort Stewart (571) 801- 1574*

*Hunter AAF (571) 801- 7801*





# QUESTIONS

