




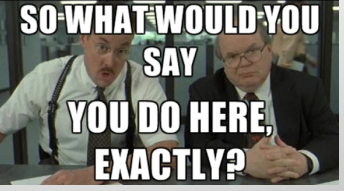
Occupational Safety and Health

University Risk Management

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Program Manager
 MUSC Occupational Safety & Health Programs

MUSC Risk Management

Work to prevent illness and injury in our employee population.

Risk Management Programs



Employee Health Services

Insurance Programs





Occupational Safety and Health Programs





Fire and Life Safety

Biosafety





Radiation Safety

Professional Liability

Different Types of Hazards at MUSC

- **Physical**
 - Slips, Trips, & Falls
 - Musculoskeletal (pulls, strains)
- Chemical
- Biological
- Fire
- Radiation

Reducing the Risk of Physical Hazards



Ergonomic assessments available by Risk Management.

- Slips, Trips and Falls
 - Umbrella covers
 - Walking surface inspections
 - Wet floor signs
 - Personal awareness
- Musculoskeletal (Pain, Strains, Overuse Injuries, etc.)
 - Mechanical lifts

Types of Hazards at MUSC

- Physical
- **Chemical**
 - Chemicals
 - Hazardous Drugs/Pharmaceuticals
 - Cleaning Products/Disinfectants
- Biological
- Fire
- Radiation



OSHA Chemical Hazard Communication

Information about the identities and hazards of chemicals must be available and understandable to workers.

Global Harmonization System (GHS) Pictograms



Explosive



Flammable



Oxidizing



Gases Under Pressure



Corrosive



Acute Toxicity



Irritant/Sensitizer



Health Hazard



Hazardous to Aquatic Environment

Locating an SDS

Available from the manufacturer, online, or through OSHP.

Type into Google:

- Name of Chemical or Product
- Manufacturer
- Example: "3M Desk and Office Cleaner SDS"



Instructions for finding an SDS are on the OSHP website.

Personal Protective Equipment (PPE)

Types of PPE:

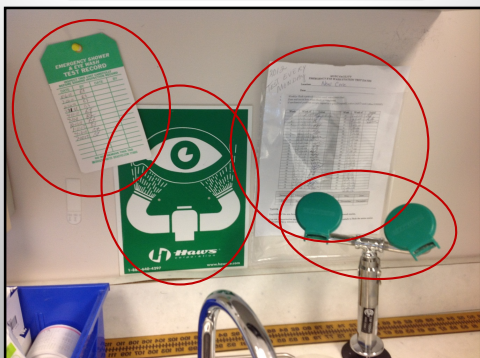
- Head Protection
- Eye & Face Protection
- Hand Protection
- Body Protection
- Respiratory Protection
- Foot Protection



- Determine what PPE is necessary for specific procedures

– [Lab PPE Selection Form](#)-Appendix B in Chemical Hygiene Plan

Eyewash Compliance



Where are Hazardous Chemicals Located On Campus?





Hazardous Chemicals In Laboratories May Consist Of:

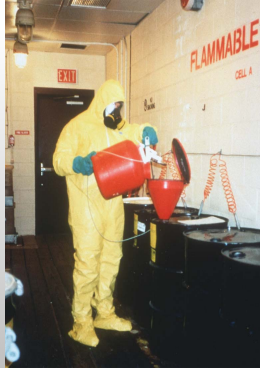
- | | |
|--|---|
| • Corrosives - Nitric Acid | • Poisons - Potassium Cyanide |
| • Oxidizers - Silver Nitrate | • General Inorganic Compounds - Calcium Carbide |
| • General Organic Compounds - Aniline | • Flammable Metals - Magnesium |
| • Caustics - Calcium Oxide | • Flammables - Ethanol, Butanol, Ethyl Ether |
| • Reactive Metals - Sodium | • Carcinogens - Formaldehyde |
| • Explosive Anhydrides and Anhydrous Compounds - Sodium Peroxide | |
| • Ketones - Acetone | |

Chemical Waste Disposal

A "no drain" disposal policy!



- OSHP will [pick-up](#) chemicals
 - Fill out online pick-up request
- Label waste containers with hazardous waste label
- Keep containers closed
- Generators of chemical waste must receive annual training



Chemical Spill Response



Chemical Spills Cleaned
only by OSHP.

Call 792-3604 and wait
outside of area for OSHP

Types of Hazards at MUSC

- Physical
- Chemical
- **Biological**
 - Bloodborne Pathogens
 - Infectious Diseases - Tuberculosis
- Fire
- Radiation



Biohazard

Any material that contains, or potentially contains, an infectious agent

- Bacteria, Virus, Parasite, Prion
- Human blood and body fluids



Prohibit storage of food with biohazards



Hazard: Bloodborne Pathogens

Protecting against infections that can be transmitted through contact with blood or body fluids:

- Human Immunodeficiency Virus (HIV)
- Hepatitis B Virus (HBV)
- Hepatitis C Virus (HCV)
- Many others: West Nile virus, *Plasmodium* spp., hemorrhagic fever viruses, etc.

OSHA Bloodborne Pathogen Standard

Use Universal/Standard Precautions.

Treat **ALL** human source materials as if they are known to be infectious.



Wear Personal Protective Equipment (PPE)



Use engineering and work practice controls

- Safety engineered sharps

Receive Vaccinations

- Hepatitis B vaccination available through Employee Health
- HIV and Hepatitis C do not have vaccinations



Occupational Exposure to Blood/Body Fluids

Types of exposures:

- Needle-sticks (dirty needles) & cuts
- Splashing to mucous membranes (eyes, nose, mouth)
- Contact with existing break in skin

Know what to do if exposure occurs

Take care of yourself first!!!



- Open wounds: wash with soap and water for 15 min.
- Mucous membrane: Flush for 15 min. with water at eyewash station if possible

Report Exposures of Blood/Body Fluids

After first aid is administered, **REPORT** the exposure

During work hours
(Monday-Friday 7:30am-4pm):

Call Employee Health Services
843-792-2991

After work hours
(evenings, weekends, holidays):

Call Hospital Supervisor
843-792-2123

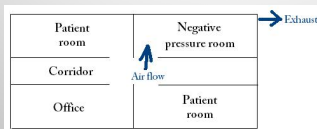
OR

If no Hosp. Supervisor on duty,
Go to
MUSC Emergency Department
1st Floor Main Hospital

Hazard: Confirmed or Suspected Active Tuberculosis

Reducing the Risk of Tuberculosis

- Use negative pressure rooms



- Follow infection control procedures
- Use Respiratory Protection
 - Annual Respiratory Fit

Types of Hazards at MUSC

- Physical
- Chemical
- Biological
- **Fire**
 - Procedures
 - Prevention
- Radiation



In the event of a fire...

R.E.A.C.T.



Know the **MUSC** FIRE PLAN
FIVE STEP Process

MUSC FIVE STEP FIRE PLAN R.E.A.C.T.

Remove patients

Ensure doors are closed

- confines the smoke & fire, keeps it from spreading

Activate the fire alarms

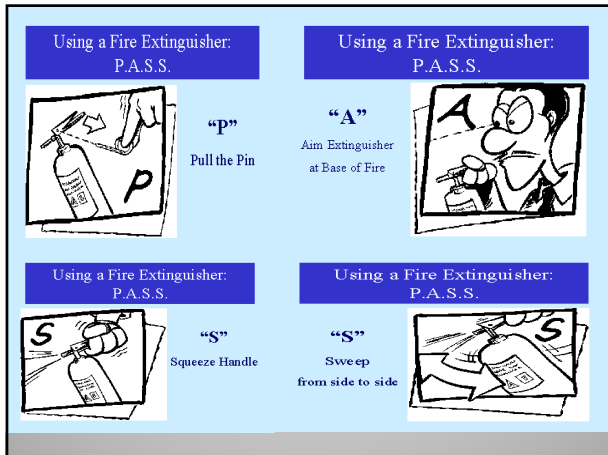
- pull the closest pull station

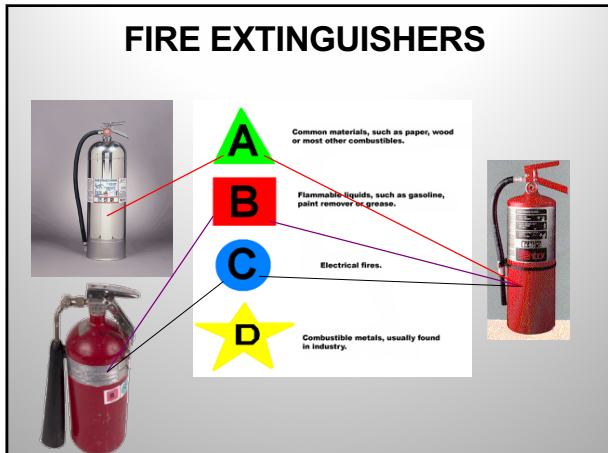
Call the operator 2-3333

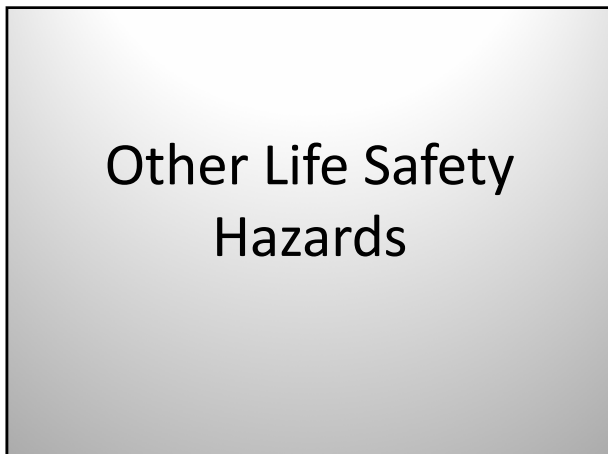
- Name; phone number; location and nature of emergency

Try to fight the fire









Microwave Safety

ALL COOKING SHALL BE MONITORED

(INCLUDING POPCORN)

DO NOT PLACE METAL ITEMS IN MICROWAVES



Use of a microwave oven is considered to be "cooking".....

And cooking shall be attended at all times!

18 INCH RULE




Maintain at least an 18 inch clearance between all material storage and ceiling sprinklers

Types of Hazards at MUSC

- Physical
- Chemical
- Biological
- **Fire**
- **Radiation**



Reducing the Risk of Radiation Hazards

- If your going to working with Radiation, you will be given in-depth training
- Universal Radiation Warning symbol 
- When machine is producing radiation:
 - Stay behind lead-lined wall in Control Booth
 - If required to be in a room with an operating x-ray wear a lead apron and a dosimeter

Ask questions! Contact your manager or the Radiation Safety Officer at 2-4255.

In conclusion...things do happen

Please do your best to:

- Anticipate accidents and be proactive
- Follow safety protocols and procedures
- Ask your coworker if your unsure about anything
- Contact your Manager if you see unsafe practices

But if they do occur....



Know and follow proper emergency procedures!

And last but certainly not least...



Contact us for any:



**MUSC Occupational Safety & Health Programs
843.792.3604**

**A. Tyler Nance, MHA, MBA
OSHP Program Manager**



Attestation of Understanding of the MUSC Occupational Safety & Health Program

I have reviewed the MUSC Occupational Safety & Health Programs presentation and understand it completely and in its entirety.

☐ By checking this box and entering my name below, I acknowledge and agree to the information stated within this policy.

Printed Name

Date