

WASTE IDENTIFICATION

**Small Quantity Generator Training
For Employees Who Handle Hazardous Waste**

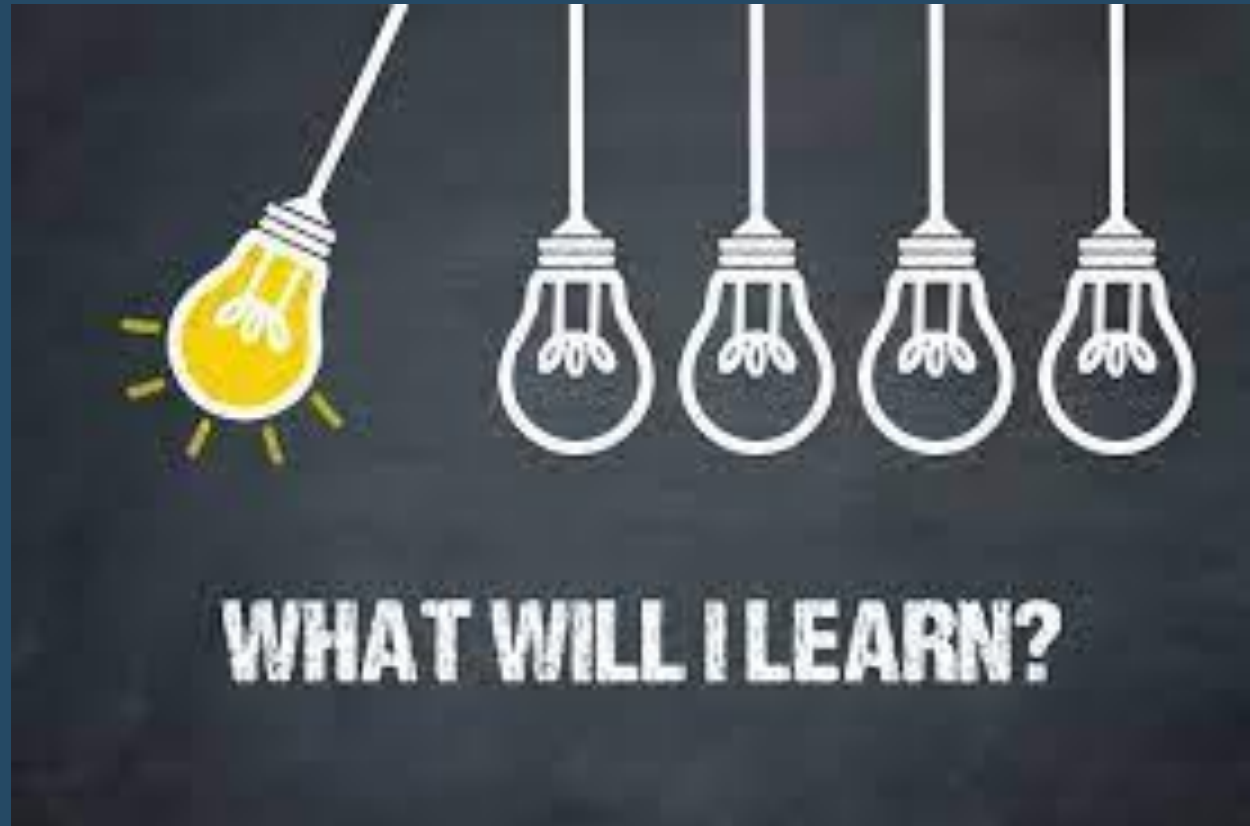


WASTE TRAINING

- US EPA and Ohio EPA regulate how waste is managed under the Resource Conservation and Recovery Act (RCRA).
- All employees must be thoroughly familiar with proper waste handling and emergency procedures relevant to their responsibilities.

OBJECTIVES

- Waste Identification
- Waste Minimization and Segregation
- Waste Management
- Spill Response



WASTE IDENTIFICATION



WASTE IDENTIFICATION

It is important that every waste stream be identified and properly characterized



WASTE IDENTIFICATION

- Types of waste:
 - Solid waste/non-hazardous waste. This waste goes in the normal trash
 - Hazardous Waste
 - Used Oil
 - Bio-Hazard Waste

HAZARDOUS WASTE

- Hazardous waste may consist of the following types of waste:
 - Ignitable
 - Corrosive
 - Reactive
 - Toxic
 - EPA listed waste (process waste or off-spec chemicals)



HAZARDOUS WASTE

- The amount of hazardous waste we generate each month determines our EPA compliance obligations. The less hazardous waste we generate, the fewer requirements (see Ohio EPA Generator Requirements Table).



WHAT TYPES OF WASTE DO WE GENERATE AT JAY INDUSTRIES?

- Paint waste from punctured aerosol cans





WHAT TYPES OF WASTE DO WE GENERATE AT JAY INDUSTRIES?

- Nitric acid from cut and etch process



WHAT TYPES OF WASTE DO WE GENERATE AT JAY INDUSTRIES?

- Batteries
 - Take used batteries to tool crib or office for recycling



WHAT TYPES OF WASTE DO WE GENERATE AT JAY INDUSTRIES?

- Normal Trash

WHAT TYPES OF WASTE DO WE GENERATE AT JAY INDUSTRIES?

- Used oil
 - Used oil is collected in tanks and totes for recycle.





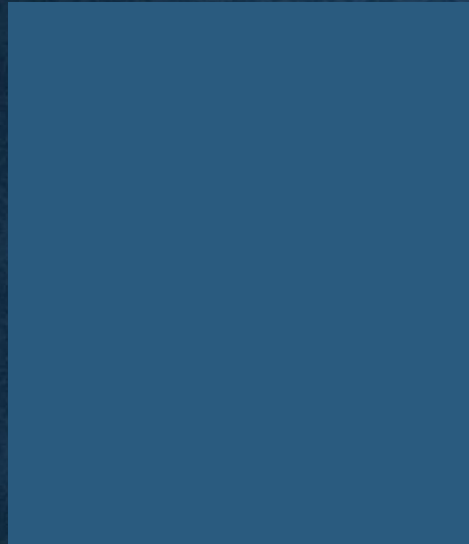
WHAT TYPES OF WASTE DO WE GENERATE AT JAY INDUSTRIES?

- Machining Fluids



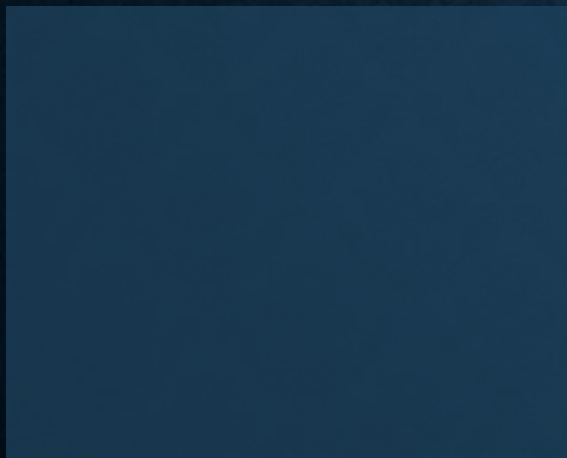
WHAT TYPES OF WASTE DO WE GENERATE AT JAY INDUSTRIES?

- Used antifreeze (tow motor mechanics bay)



WHAT TYPES OF WASTE DO WE GENERATE AT JAY INDUSTRIES?

- Bio-hazard waste
 - Red biohazard bags are included in the first aid kits and bloodborne pathogen kits. Contact EHS for pickup and disposal.





WHAT OTHER TYPES OF WASTE MIGHT BE GENERATED?

- Obsolete chemicals
- Waste from spills (this could be hazardous or non-hazardous)
- What else?

WASTE MINIMIZATION AND SEGREGATION

WASTE MINIMIZATION

- It is important that we try to minimize waste wherever possible
 - Replace
 - Reduce
 - Reuse
 - Recycle



WASTE SEGREGATION

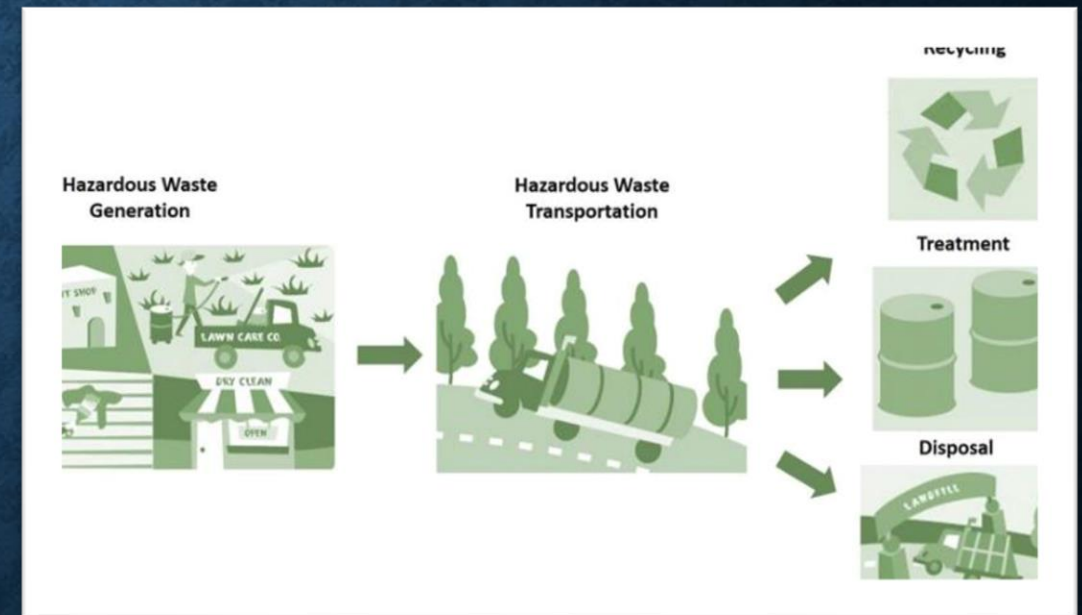
- It is also critical that wastes be properly segregated
 - Keep trash segregated from recyclables



WASTE MANAGEMENT

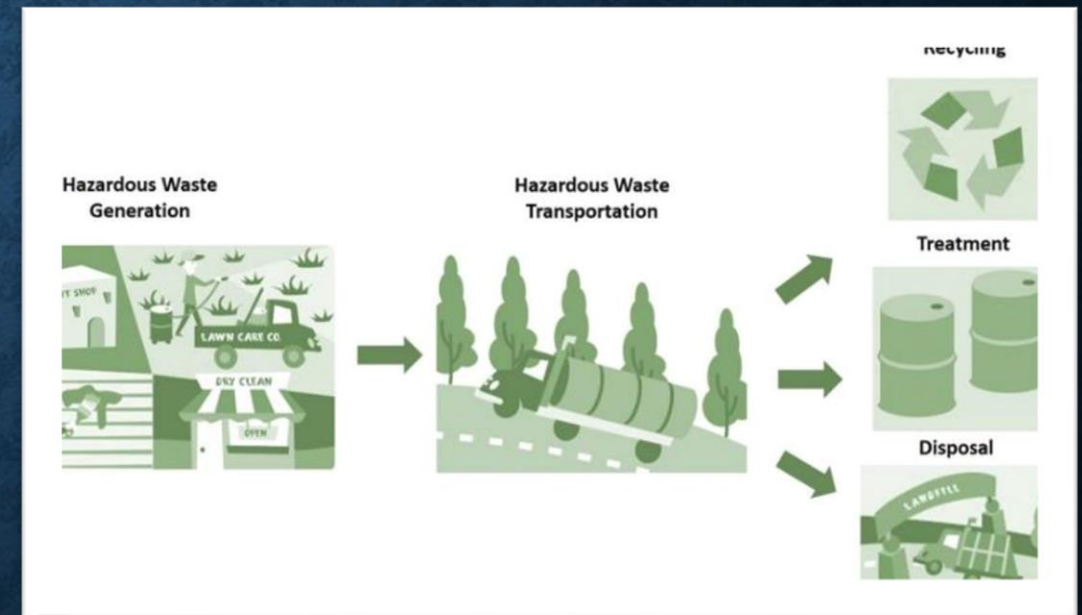
WASTE MANAGEMENT – CRADLE TO GRAVE

- We are responsible for our waste from “cradle to grave”



WASTE MANAGEMENT – CRADLE TO GRAVE

- The EPA established regulations to govern hazardous materials from “birth” through “death”.
 - Identification
 - Management
 - Labeling
 - Storage
 - Tracking
 - Disposal





WASTE MANAGEMENT – CONTAINERS

Hazardous waste containers:

- Can only be used for Hazardous Waste
- Clearly labeled with label visible (not turned towards the wall)
- Closed when not in use
- Keep the outside barrel as clean as possible
- Separate them from other drums or containers

WASTE MANAGEMENT – FLAMMABLE LIQUID TRANSFER

- It is critical that containers are grounded and transfer containers are bonded or a funnel with a flame arrestor is used.



Fire caused by static electricity during gravity transfer of flammable liquid between plastic totes.

WASTE MANAGEMENT – NO SMOKING

- No smoking near ignitable or reactive waste!





WASTE MANAGEMENT – SATELLITE ACCUMULATION

Satellite accumulation is where hazardous waste drums are kept while they are still being filled:

- Containers must be closed when not in use. Funnel must be closed and latched when not in use.



WASTE MANAGEMENT – SATELLITE ACCUMULATION

Satellite accumulation is where hazardous waste drums are kept while they are still being filled:

- Funnel with flame arrester must be used when adding ignitable waste



WASTE MANAGEMENT – SATELLITE ACCUMULATION

Satellite accumulation is where hazardous waste drums are kept while they are still being filled:

- Have up to 3 days to move the barrel to hazardous waste storage after it is full



WASTE MANAGEMENT – SATELLITE ACCUMULATION

Satellite accumulation is where hazardous waste drums are kept while they are still being filled:

- Must be stored in approved containers and properly labeled



WASTE MANAGEMENT – SATELLITE ACCUMULATION

Satellite accumulation is where hazardous waste drums are kept while they are still being filled:

- Tops must be clean and waste free



WASTE MANAGEMENT – SATELLITE ACCUMULATION

Satellite accumulation is where hazardous waste drums are kept while they are still being filled:

- No drips or splatters

WASTE MANAGEMENT – LABELS

- Labels must be:
 - clear and neat
 - legible printing
 - cannot be damaged
 - must be visible
 - must be turned where they can be seen

HAZARDOUS WASTE
FEDERAL LAWS PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

CONTAINER'S INFORMATION
NAME: *Beacon Fab. Products*
ADDRESS: *1545 W. Longview*
Marshall
CITY: *Marshall* STATE: *OH* ZIP: *44706*
PHONE: *330.338.1079* EPA ID: *D001*
REGISTRATION NO. (if applicable) MANUFACTURER'S ID (if applicable)

DATE OF LABELING: []
BY: []

DO NOT OPEN, MOVE, OR ATTEMPT TO REPAIR THIS CONTAINER.
HANDLE WITH CARE!

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WASTE MANAGEMENT – LABELS

- Use the previous waste label as a template to fill out the new label. Contact EHS for assistance

HAZARDOUS WASTE
FEDERAL LAWS PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

GENERATOR'S INFORMATION
FROM: *Beachco Fab. Products*
ADDRESS: *1545 W. Longview*
Menasha
CITY: *Menasha* STATE: *WI* ZIP: *54952*
PHONE: *920.735.1079* EPA ID: *D001*
REGISTRATION NO. HAZARDOUS WASTE NO.

DATE OF LABELING: _____
BY: _____

DO NOT OPEN UNLESS NECESSARY
HANDLE WITH CARE!

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WASTE MANAGEMENT – LABELS

- The accumulation start date should not be filled out on a hazardous waste label until the drum is full and moved to the hazardous waste storage area.

HAZARDOUS WASTE
FEDERAL LAWS PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

GENERATOR'S INFORMATION
FROM: *Bechem Fab. Products*
ADDRESS: *1545 W. Longview*
Merstield
CITY: *2014 1st St*
STATE: *OH* ZIP: *44136*
PHONE: *00000081079* EPA ID: *D001*
ACCUMULATION START DATE: _____
HAZARDOUS WASTE ID: _____
UNIFORMED HAZARDOUS WASTE RESPONSE TEAM
HANDLE WITH CARE!
EPA FORM 102-112 (7-97) 6870-10-000



WASTE MANAGEMENT – UNKNOWN CHEMICALS

- The EPA and OSHA consider unknown chemicals to be a serious violation
- It is your job to prevent unknown chemicals by maintaining legible labels
- Replace damaged or missing labels



WASTE MANAGEMENT – PERSONAL HYGIENE

- Wash hands before eating or smoking
- Remove contaminated clothing
- Wash thoroughly at the end of the day

SPILL RESPONSE

SPILL RESPONSE

- In the event of a release of hazardous waste, use the following 7 step procedure to respond



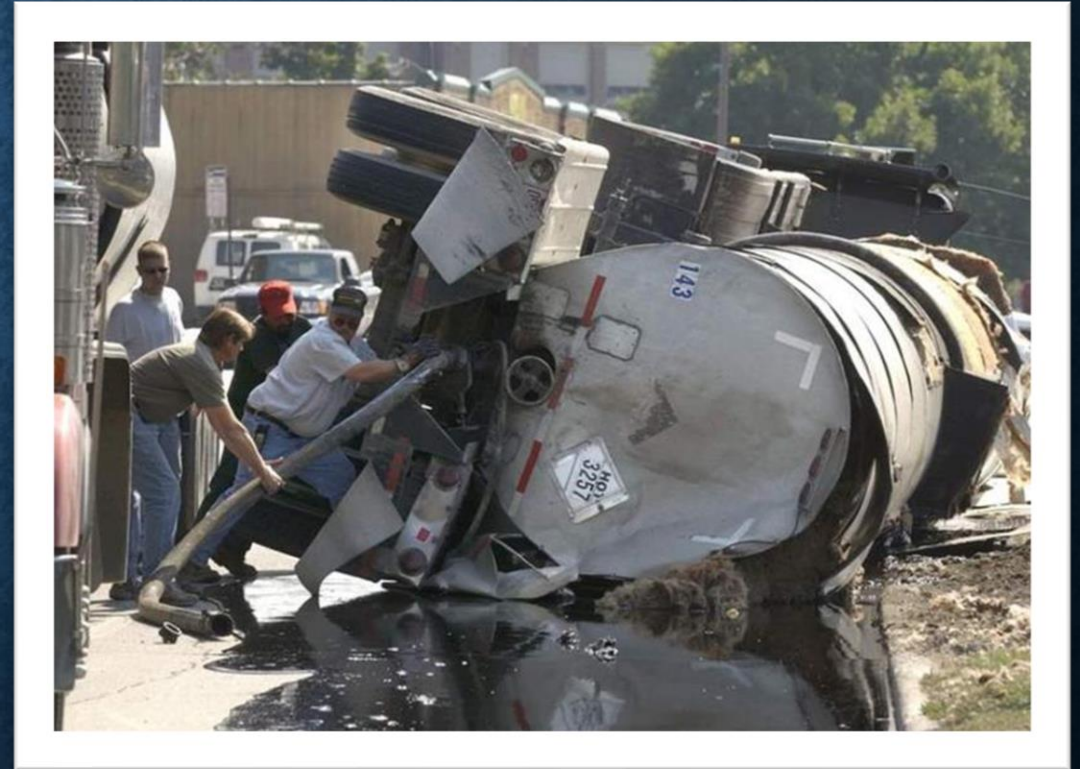
SPILL RESPONSE – 7 STEPS

- Step One: Assess the Risk
- Step Two: Protect Yourself
- Step Three: Stop the Source
- Step Four: Contain the Spill
- Step Five: Evaluate and
Implement Cleanup
- Step Six: Decontamination
- Step Seven: Reporting

SPILL RESPONSE – STEP ONE: ASSESS THE RISK

Life safety is the No. 1 priority in any spill response. Stop, look and listen before responding

- Check the SDS or other markings and labels
- Look for victims, but don't rush in.
- Communicate the hazard to nearby personnel, and control access to the area.





SPILL RESPONSE – STEP ONE: ASSESS THE RISK

- Let a supervisor know
- Contact the EHS Department
- Advise spill response team of situation
- Ask co-workers to help with spill or send them for help

Look at Safety Data Sheet for instructions (first aid, PPE)

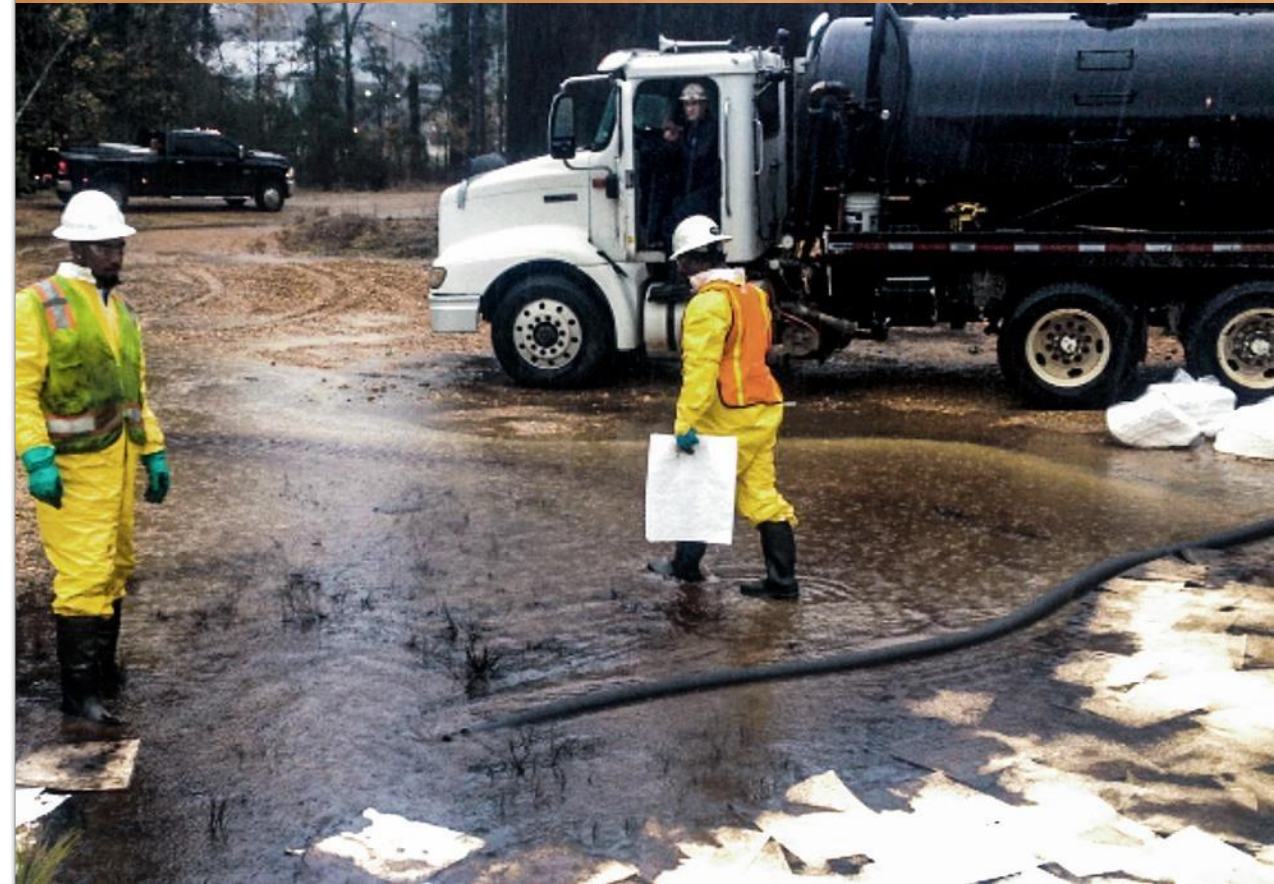


SPILL RESPONSE – STEP TWO: PROTECT YOURSELF

- Wear appropriate PPE
 - Safety glasses/goggles
 - Rubber/chemical resistant gloves
 - Rubber over boots
 - Tyvek suit or coat

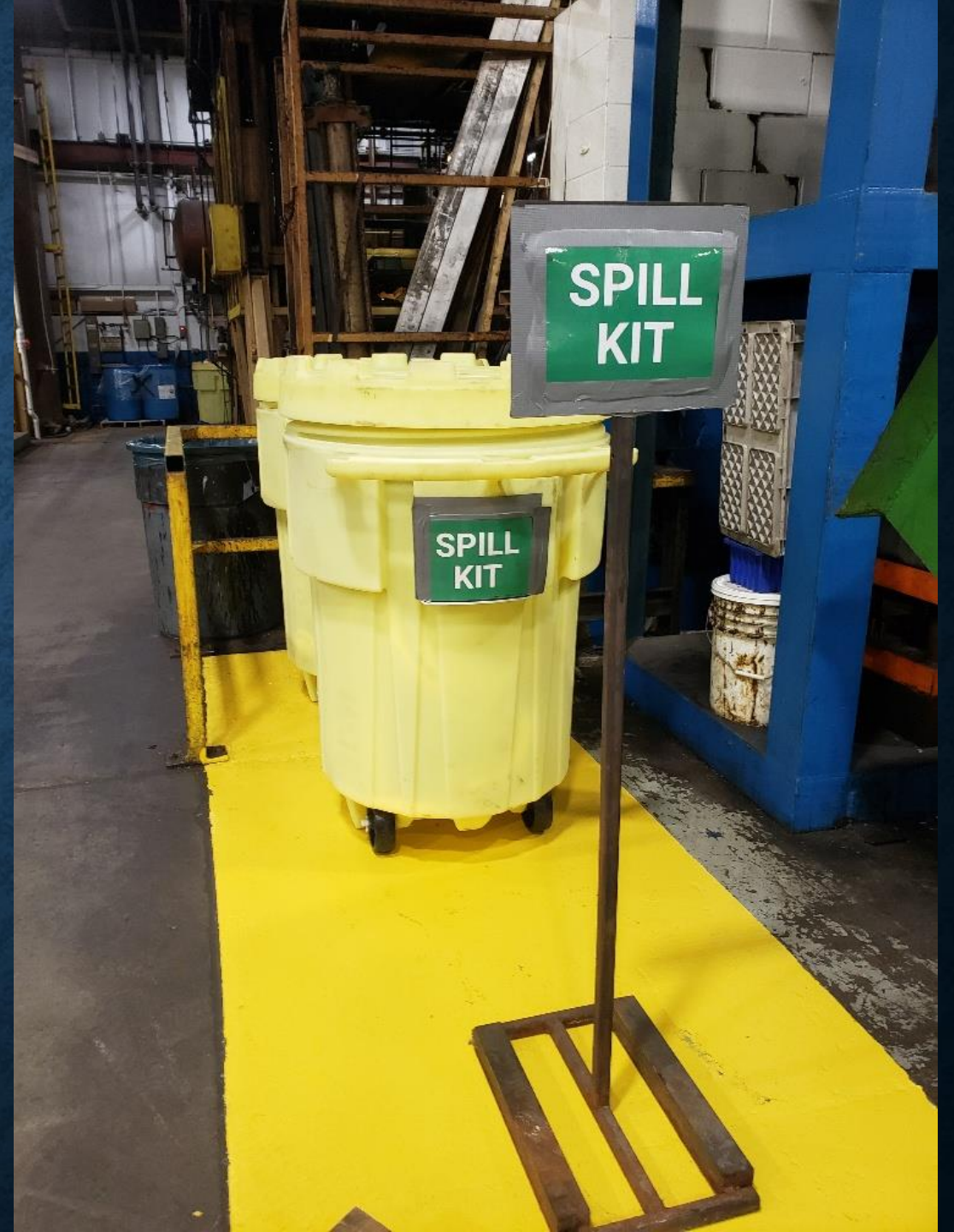
SPILL RESPONSE – STEP TWO: PROTECT YOURSELF

- Wear appropriate PPE
 - A large acid spill is going to require much different PPE than a small oil spill
 - Basic PPE for spills can be found in the spill kits



SPILL RESPONSE – STEP THREE: STOP THE SOURCE

- Spill Kit Contents
 - Absorbent clay, socks and mats
 - Repair putty
 - Trash bags
 - Basic PPE (goggles, over boots, rubber gloves, Tyvek suits, dust mask)
 - Gel mat for drain cover
 - Spill kit drum can be used to contain a leaking drum



SPILL RESPONSE – STEP THREE: STOP THE SOURCE

Where safe and appropriate:

- Stand a tipped drum back up
- Use putty in spill kit to plug holes
- Place leaking drum in over pack
- Shut valve off to equipment
- Shut machine down

Use a spill kit in your area or absorbent mats to contain the spill



SPILL RESPONSE – STEP FOUR: CONTAIN THE SPILL

Where safe and appropriate:

- Make sure spill is contained using sock absorbents, mat absorbents, or dig an earthen berm.
- Rope off the area
- Use caution tape
- Divert the flow of the spill
- Prevent from going into any drain



SPILL RESPONSE – STEP FIVE: CLEAN UP THE SPILL

- Clean the spill and affected surfaces by sweeping, vacuuming, and/or absorbing
- Acids or caustics may need to be neutralized before removal
- Place recovered material and absorbents in approved containers for disposal
- Use proper cleanup techniques as the situation calls
 - **Example: Never use a vacuum on a mercury spill**





SPILL RESPONSE – STEP SIX: DECONTAMINATION

- Decontaminate equipment and any reusable PPE used in the spill response



SPILL RESPONSE – STEP SEVEN: REPORTING

- Complete an accident / incident report
- Report to Environmental, Health, and Safety
 - EHS will make sure any necessary reports to state or federal agencies are submitted and used materials restocked

**If you have any questions,
contact your supervisor or the
EHS Team.
Thank you**

