



Texas State Technical College

Harlingen

HAZARD COMMUNICATION

“Right To Know”

Working With

Hazardous Materials



# PROGRAM OBJECTIVES


- ◆ Ensure Compliance With State And Federal Standards
- ◆ Provide A Safe And Healthy Work Environment
- ◆ Create Processes And Procedures For Maintaining The Hazard Communication Program



# COLLEGE RESPONSIBILITIES

- ◆ Prepare Chemical Information List (CIL)
- ◆ Provide Material Safety Data Sheets (MSDS) For Hazardous Materials
- ◆ Provide Training To Employees
  - How To Identify Hazards
  - How To Use Labels, CILs, And MSDSs
  - Details On Right-To-Know Program

# MANAGER/SUPERVISOR RESPONSIBILITIES



- ◆ Conduct Workplace Job Safety Analysis (JSA)
- ◆ Provide Employee Training
- ◆ Keep Updated & Current
- ◆ Insure Proper Labeling Or Tagging Of Each Hazardous Material Container
- ◆ Enforce All Applicable Regulations And Take Appropriate Actions As Needed

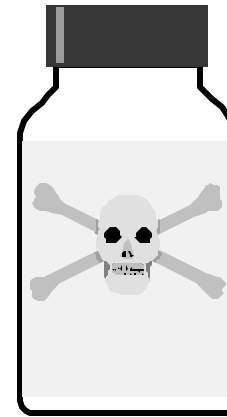
# EMPLOYEE RESPONSIBILITIES



- ◆ Includes ALL Employees
- ◆ Be Able To Read And Understand MSDSs And Labels
- ◆ Know, Respect, And Follow Rules, Processes, And Regulations
- ◆ Keep Up-To-Date With Regulations And Procedures

# CHEMICAL HAZARDS

- ◆ Physical Hazards: Act Outside The body To Produce A Dangerous Situation
- ◆ Health Hazards: Cause Internal Damage To Body Organs And Processes



# PHYSICAL HAZARDS

- ◆ Explosives
- ◆ Fire Hazards
  - Flammables, Combustibles, Oxidizers
- ◆ Reactive Chemicals
- ◆ Compressed Gases



# HEALTH HAZARDS

- ◆ Target Organ Chemicals
- ◆ Reproductive Hazards
- ◆ Carcinogens
- ◆ Sensitizers
- ◆ Corrosives
- ◆ Irritants





# HEALTH HAZARDS

- ◆ Acute Health Effects

- effects from an exposure that appear immediately and usually severe

- ◆ Chronic Health Effects

- effects from multiple exposures that occur over a period of time

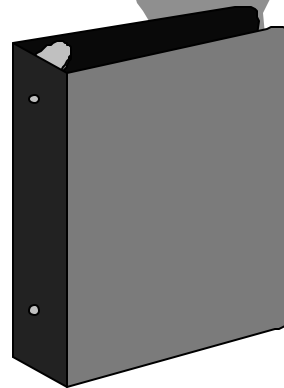


# CHEMICAL INFORMATION LIST

- ◆ Alphabetical Listing Of All Hazardous Substances In The Workplace
- ◆ Use Common Or Trade Names
- ◆ Identifies Location In The Facility
- ◆ CIL To Be Appended As Hazardous Materials Enter The Workplace

# CHEMICAL INFORMATION LIST

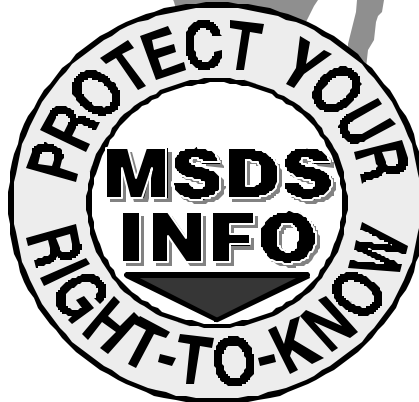
- ◆ List Must Be Available To Employees
- ◆ Keeps Manager/Supervisor Knowledgeable Of The Workplace
- ◆ Updated Annually With All Revisions
- ◆ Master Copy Kept By Manager/Supervisor



# Material Safety Data Sheet

## MSDS

- ◆ Must Have A Copy For Each Hazardous Material
- ◆ Must Be Readily Available To Employees
- ◆ Maintain Master List
- ◆ Copies In Individual Departments Or Work Stations



# MSDS



- ◆ Hazardous Material Identity Must Be The Same As On Label
- ◆ Identifies Hazardous Ingredients
- ◆ Must Have Physical And Chemical Characteristics
- ◆ Must Identify Physical And Health Hazards, Including Routes Of Entry & Symptoms



# MSDS

- ◆ Permissible Exposure Limits (PELs)
- ◆ Fire and Explosion Hazard Data
- ◆ Safe Handling & Use Precautions
- ◆ Control Measures Including Respiratory Protection And Other PPE
- ◆ Emergency And First-Aid Procedures

# MSDS



- ◆ Maintain Current MSDS On File
- ◆ Name, Address, And Phone Number Of Manufacturer, Importer, Distributor Or Other Responsible Agency
- ◆ Emergency Telephone Numbers

# LABELING REQUIREMENTS

- ◆ Chemical Name And Trade Name, If Any
- ◆ Name And Address Of Importer, Manufacturer, Or Distributor
- ◆ Appropriate Hazard Warnings
- ◆ Chemical Abstract Service (CAS) Number

# LABELING REQUIREMENTS

- ◆ Chemical Or Material Name Must Be The Same As On the MSDS
- ◆ Any Required OSHA Labeling
- ◆ Not To Be Removed Unless To Be Immediately Replaced
- ◆ Should Not Receive Shipments W/O Proper Labeling



# LABELING REQUIREMENTS

## TRANSFER CONTAINERS

- ◆ Required If The Employee Making Transfer To Another Container Leaves Area
- ◆ The Container Is Moved To Another Work Area
- ◆ Not Required For Immediate Use Materials By Employee Who Performs The Transfer



# EXCLUSIONS

- ◆ Does Not Apply To Foods, Drugs, Cosmetics, Or Tobacco Products
- ◆ Consumer Products Regularly Packaged For Use
- ◆ Substances Controlled By The Federal Insecticide, Fungicide, And Rodenticide Act

# PIPING SYSTEMS

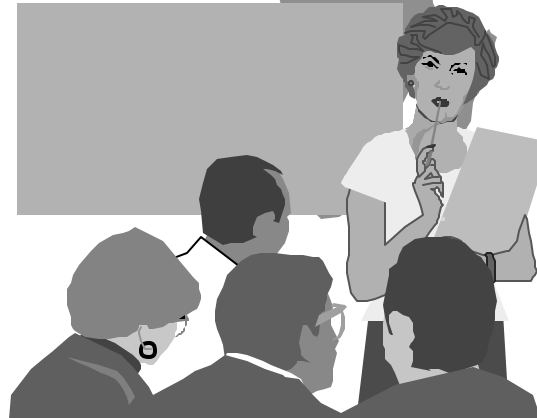
- ◆ Pipelines Transporting Hazardous Materials Must Be Labeled At Normally Operated Valves, Outlets, Drains, And Vents

HAZARD ALERT	
Chemical Name	
MSDS Ref.	
Mfr. (Emergency No.)	
<input checked="" type="radio"/>	HEALTH
<input checked="" type="radio"/>	FLAMMABILITY
<input type="radio"/>	REACTIVITY
<input type="radio"/>	PROTECTIVE EQUIPMENT
HAZARD KEY: 4 - Severe	
3 - Serious	2 - Moderate
1 - Slight	0 - Minimal
See Other Side	

HAZARD ALERT		
ROUTE OF EXPOSURE		
<input type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion	
<input type="checkbox"/> Absorption through Skin		
HEALTH HAZARDS		
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Irritant	
<input type="checkbox"/> Toxic	<input type="checkbox"/> Carcinogen	
<input type="checkbox"/> Sensitizer	<input type="checkbox"/> Radioactive	
PHYSICAL HAZARDS		
<input type="checkbox"/> Explosive	<input type="checkbox"/> Compressed Gas	
<input type="checkbox"/> Combustible Liquid		
<input type="checkbox"/> Pyrophoric (Ignites in air)		
<input type="checkbox"/> Unstable (Reactive)		
<input type="checkbox"/> Oxidizer	<input type="checkbox"/> Organic Peroxide	
<input type="checkbox"/> Water Reactive	<input type="checkbox"/> Flammable Gas	
<input type="checkbox"/> Flammable Solid/Liquid		
TARGET ORGANS		
<input type="checkbox"/> Skin	<input type="checkbox"/> Eyes	<input type="checkbox"/> Blood
<input type="checkbox"/> Heart	<input type="checkbox"/> Liver	<input type="checkbox"/> Kidneys
<input type="checkbox"/> Lungs	<input type="checkbox"/> Respiratory System	
<input type="checkbox"/> Cardiovascular System		
<input type="checkbox"/> Central Nervous System		
<input type="checkbox"/> Autonomic Nervous System		
<input type="checkbox"/> Reproductive System		

# TRAINING REQUIREMENTS

- ◆ All Employees Must Attend Training
- ◆ Within 30 Days Of Employment Or Reassignment
- ◆ Overview Of Hazard Communication Standard





# SPECIFIC TRAINING REQUIREMENTS

- ◆ Review Of Chemicals In Workplace
- ◆ Location And Availability Of Written Program, CILs, And MSDS Files
- ◆ Physical And Health Effects Of Hazards
- ◆ Appropriate Work Practices
- ◆ Protective Measures
- ◆ Emergency Procedures

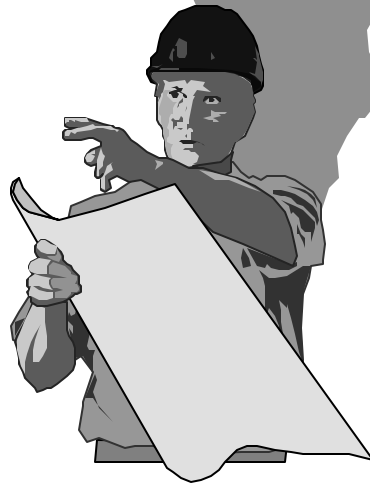


# SPECIFIC TRAINING REQUIREMENTS

- ◆ Methods Used To Determine The Presence And/Or Release of Hazardous Materials
- ◆ How To Lessen Or Prevent Exposures
- ◆ Proper Storage And Disposal Of Materials
- ◆ Training Must Be Properly Documented

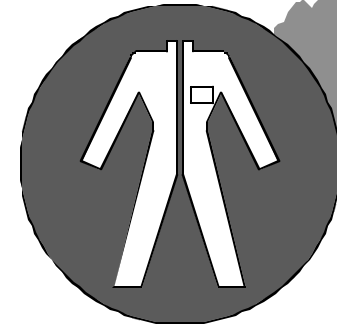
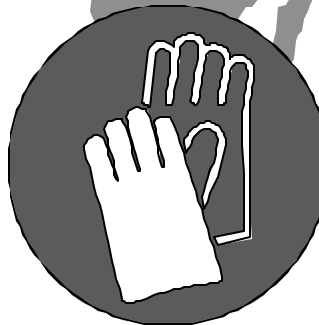
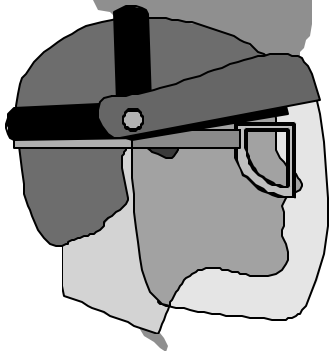
# NON-ROUTINE TASKS

- ◆ Before Being Performed, Employee Must Be Advised By Supervisor
- ◆ Training Must Be Provided On Specific Hazardous Material And Associated Hazards




# NON-ROUTINE TASKS

- ◆ PPE To be Used
- ◆ Measures To Be Taken To Lessen Hazards
- ◆ Gives Employee An Opportunity To Ask Questions



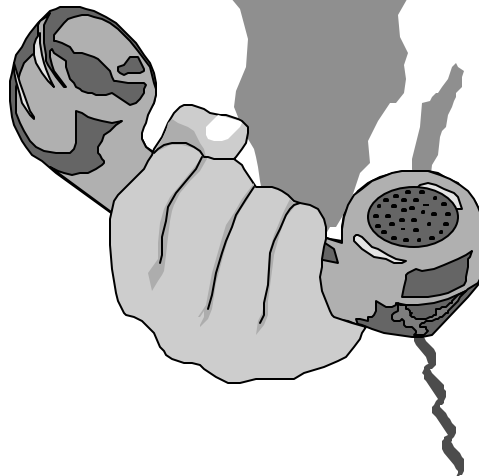
# CONTRACT EMPLOYEE EXPOSURE



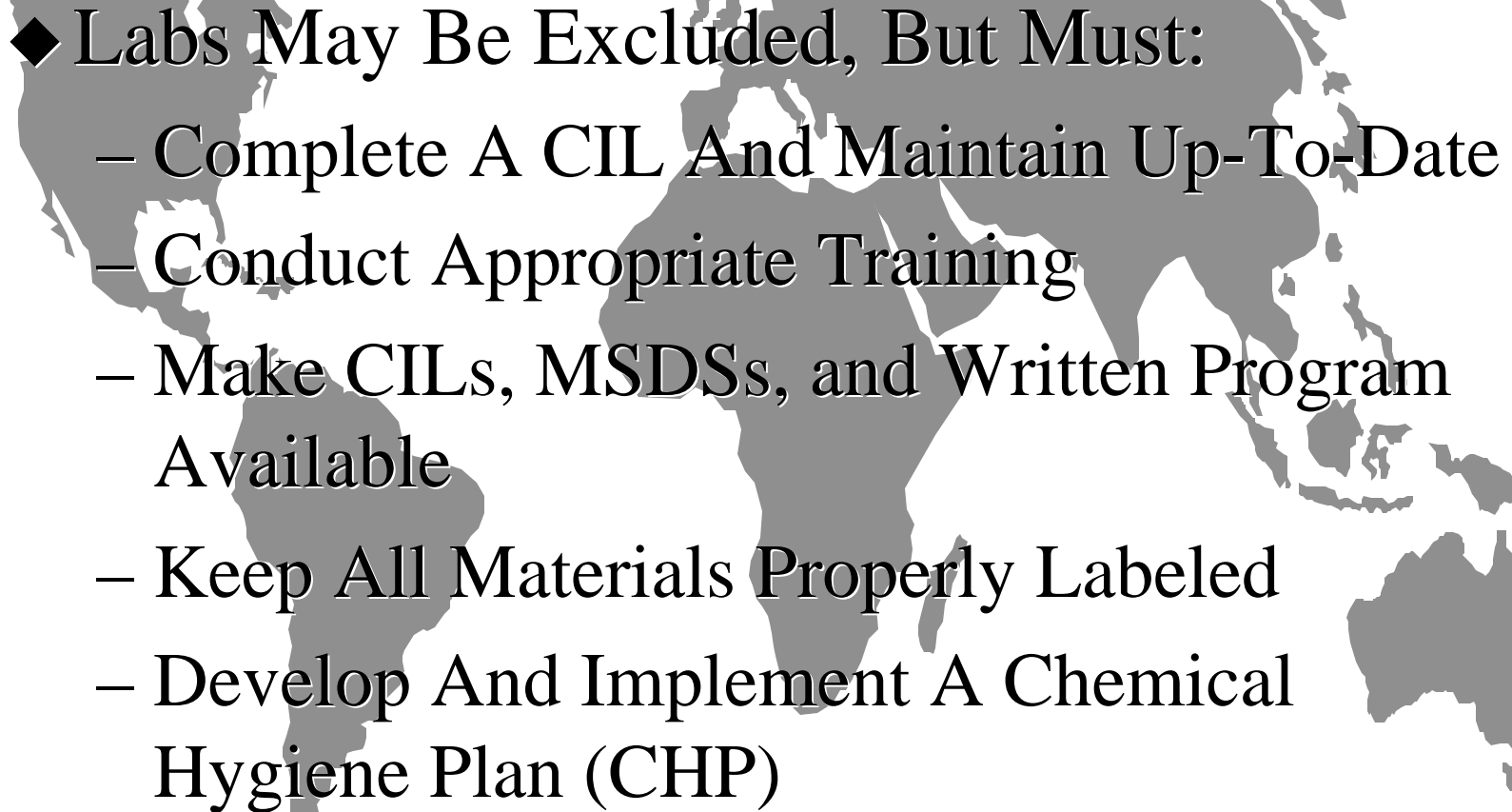
- ◆ Safety Contact And Directions To Be Given Before Work Begins
- ◆ Location Of MSDSs, CILs, And Written Program
- ◆ Cross Training If Needed
- ◆ Contract Oversight May Be Needed

# CONTRACT EMPLOYEE EXPOSURE

- ◆ Potential For Hazardous Chemicals Exposure
- ◆ Measures To Be Taken To Lessen Potential
- ◆ Procedures To Be Followed If Exposed



# EXCLUSIONS

- 
- ◆ Labs May Be Excluded, But Must:
    - Complete A CIL And Maintain Up-To-Date
    - Conduct Appropriate Training
    - Make CILs, MSDSs, and Written Program Available
    - Keep All Materials Properly Labeled
    - Develop And Implement A Chemical Hygiene Plan (CHP)

# IF THERE IS AN EXPOSURE

- ◆ Exposure: Subjected To A Hazardous Material In The Course Of Employment
- ◆ Immediately Notify Supervisor
- ◆ Call Emergency Number
- ◆ Employees Should Also Report Potential Exposures Or “Near Misses”





# IF THERE IS AN EXPOSURE

- ◆ Supervisor's Responsibility To Complete Any Reporting Paperwork
- ◆ Reports Must Be Available To Affected Employee/Representative Within 15 Days
- ◆ The Supervisor May Not Initiate Any Adverse Personnel Action Against Any Employee For Exercising Their Right To Know