

# Occupational Safety & Health Initial (OS&H)

TO 145.01

This document has been reviewed by a CNS Dual  
Authority DC/RO and confirmed to be UNCLASSIFIED.  
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**To ensure that all plant personnel have the knowledge to perform their assigned work in a manner that promotes safety of personnel, protects plant property and the environment.**

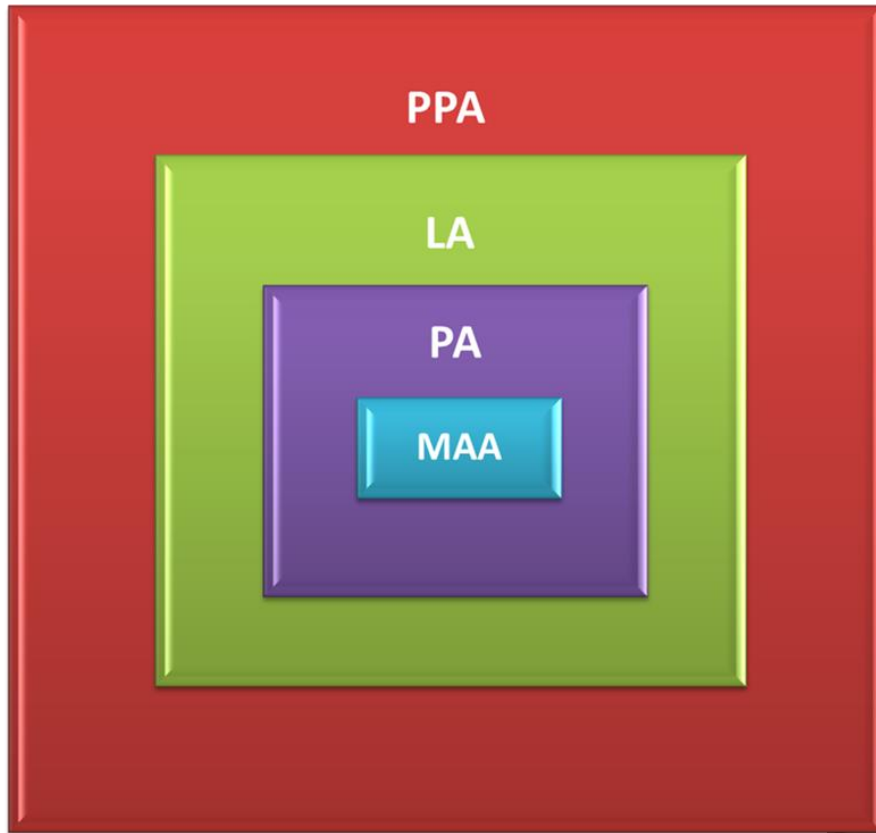
# Terminal Objective

**Given an overview of the facilities and instruction on plant safety and health policies, trainees will be able to identify components within the Occupational Safety and Health Program.**

# Enabling Objectives

- E01 Discuss the general description of the facilities.**
- E02 Explain worker's rights and responsibilities under 10 CFR 851.**
- E03 Describe the Safety and Industrial Hygiene Program.**
- E04 Discuss Stop Work Authority.**
- E05 Discuss the response to a safety event.**
- E06 Discuss reporting work related injuries/illnesses/vehicle incidents.**
- E07 Discuss the transportation safety program.**
- E08 Discuss signs and protective tags.**

# EO1 – Discuss the general description of the facilities.



# EO2 – Explain worker's rights and responsibilities under 10 CFR 851.

## RIGHTS:

To work in an environment free from recognized hazards likely to cause death or serious injury.

- Be informed of your rights and responsibilities
- Be notified of exposures to harmful substances above legal limits
- Be provided access to your exposure records
- Refuse work in conditions likely to cause serious harm to you or others

The Company is **FORBIDDEN** to make reprisals against employees who raise legitimate safety concerns.

# EO2 – Explain worker's rights and responsibilities under 10 CFR 851.

## RESPONSIBILITIES:

- Understand work area's hazards
- Comply with all safety and health regulations and standards
- Participate in mandatory training/required safety & health programs
- Immediately correct safety & health related problems/inform your supervisor
- **Know your work area's emergency plan**
- Warn fellow workers of hazards and defective equipment
- Report all work related injuries/illness to supervisor and Medical

# EO3 – Describe the Safety and Industrial Hygiene Program.

- **Provide a safe workplace for all personnel**
- **Comply with federal, state, and local safety regulations**
- **Provide programs such as:**
  - Hazard assessments (determines type of PPE)
  - Personal Protective Equipment (PPE)
    - Respiratory Program (respirators)
    - Eye and Face Protection (safety glasses)
    - Foot Protection (safety shoes)
    - Noise Protection (hearing conservation)
    - Protective Clothing (coveralls, gloves)



# EO3 – Describe the Safety and Industrial Hygiene Program.

## SLIPS, TRIPS AND FALLS:

- **Slip** – Losing balance because there is too little friction or traction between your feet (footwear) and the walking/working surface.
- **Trip** – Losing balance because the foot or lower leg hits an object and the upper body continues moving, or from stepping down unexpectedly to a lower surface (e.g., mis-stepping off a curb).
- **Fall** – Occurs when you are too far off balance.

### Reduce slips, trips, and falls by:

- Maintaining situational awareness
- Keeping eyes and mind on tasks
- Looking before moving
- Walking at appropriate speeds
- Walking around obstacles
- Avoiding cluttered pathways
- Utilizing three points of contact, as appropriate



**Slips, trips and falls are the number one injury at CNS. They are mostly caused by transitions between surfaces, uneven surfaces and changing weather conditions.**

# EO3 – Describe the Safety and Industrial Hygiene Program.

## Compressed Gas Cylinders/Pressure Safety

- Always be moved and/or stored with valve caps on
- Report unsafe conditions
- Additional training may be required



## Electrical Safety

- Only trained/qualified individuals are allowed to work on electrical systems

## Hand Safety

- Recognize tasks that can cause hand injuries

# EO3 – Describe the Safety and Industrial Hygiene Program.

## Environmental Working Conditions

- Heat stress—body is unable to cool itself.
- High temps/humidity, direct sun/heat, limited air movement/exertion/poor physical conditions/medicines/intolerance

# EO3 – Describe the Safety and Industrial Hygiene Program.



Sweaty skin

## Heat Exhaustion

- Headaches, dizziness, lightheadedness or fainting
- Weakness/Moist Skin
- Mood changes-- Irritability/ confusion
- Upset stomach/vomiting



Red, hot, dry skin

## Heat Stroke

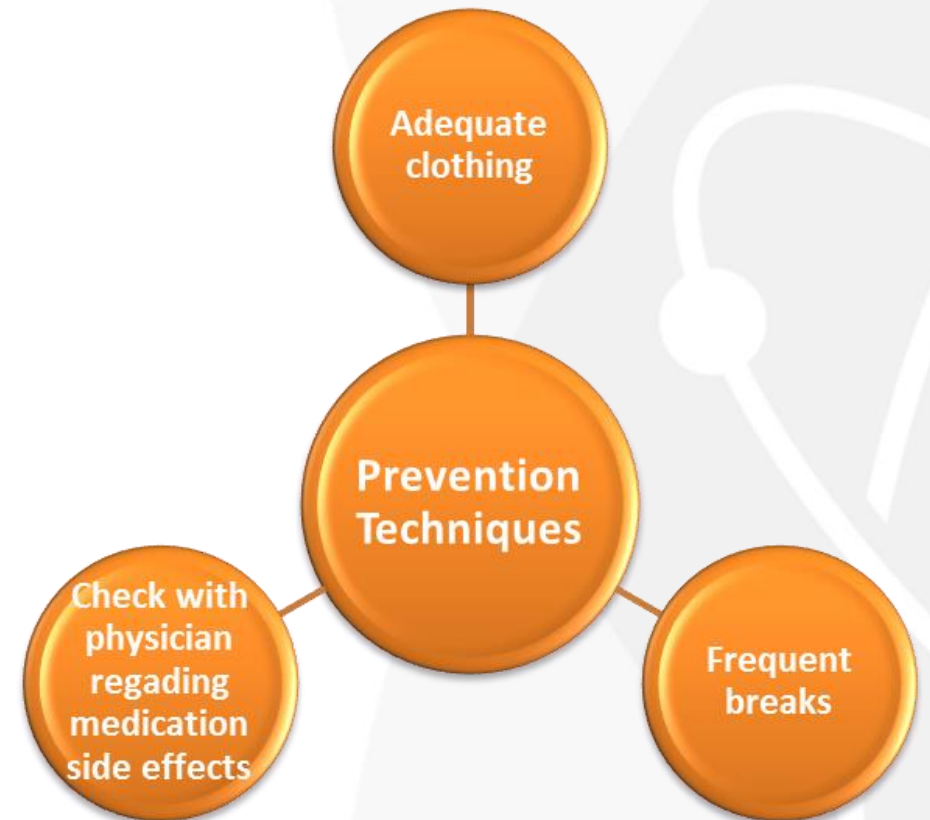
- Dry/Hot skin with NO sweating
- Mental confusion/losing consciousness
- Seizures/ convulsions

# EO3 – Describe the Safety and Industrial Hygiene Program.

**Cold stress — body is unable to maintain heat.**

Influences:

- High winds
- High humidity
- Wet conditions
- Inadequate clothing
- Individual health
- Drugs/medication



# EO4 – Discuss Stop Work Authority

**ALL employees have Stop/Pause/Suspend Work Authority!**

<b>Stop/Pause/Suspend Work Authority Process:</b>	
<b>Immediately Dangerous to Life and Health (IDLH) Concerns:</b>	<b>Non-IDLH Concerns:</b>
<ul style="list-style-type: none"><li>▪ Stop work immediately</li><li>▪ Contact the following:<ul style="list-style-type: none"><li>• Pantex OC @ <b>477-5000</b> or <b>911</b> from a JCDC landline</li><li>• Y-12 OC @ <b>911</b> (landline) or (865) <b>574-7172</b> (cell)</li></ul></li><li>▪ Notify supervisor</li><li>▪ Control the scene</li></ul>	<ul style="list-style-type: none"><li>▪ Initiate pause/stop work for something that MAY adversely affect safety/security/quality</li><li>▪ Take action</li><li>▪ Discuss issue</li><li>▪ Contact first line supervisor</li><li>▪ Be available for further discussion</li></ul>

**An employee cannot be terminated after stopping work for unsafe conditions.**

## EO5 – Discuss the response to a safety event.

### In the event of Imminent Danger, you should:

- Stop work
- Keep others away from hazard
- Contact the following:
  - Pantex OC @ (806) 477-5000
  - Y-12 OC @ 911 (landline) or (865) 574-7172 (cell)
- Notify area supervisor or your supervisor
- Notify Safety and Industrial Hygiene Dept.

## EO5 – Discuss the response to a safety event.

### NEAR MISS:

An incident/event that did not cause an injury or accident, but could have caused serious injury/property damage/insult to the environment.

### Should be reported because...

- Most industrial accidents are preceded by a large number of near misses.
- Reporting the near miss allows us to correct the problem **BEFORE** an accident occurs.



# **EO6-Discuss reporting work related injuries/illnesses/vehicle incidents**

## **INJURIES/ILLNESSES:**

- **ALL work injuries/illnesses MUST be reported IMMEDIATELY.**
- **Medical emergencies (condition which life or limb is threatened) contact:**
  - Pantex Fire Dept. @ (806) 477-3333/OC @ (806) 477-5000
  - Y-12 OC @ 911 (landline)/(865) 574-7172 (cell)
- **Notify the area supervisor**
- **Render First Aid if safe and trained**

# EO6-Discuss reporting work related injuries/illnesses/vehicle incidents

## VEHICLE INCIDENTS:

- **Report ALL incidents:**
  - **government owned vehicles/GSA/Private owned (on-site)**
  - **during business-related travel**
- Pantex OC @ (806) 477-5000 or 911 from a JCDC landline
- Y-12 OC @ (865) 574-7172
- Notify supervisor
- Render first aid if safe and trained

# E07 – Discuss the transportation safety program.

## USING GOVERNMENTAL VEHICLES:

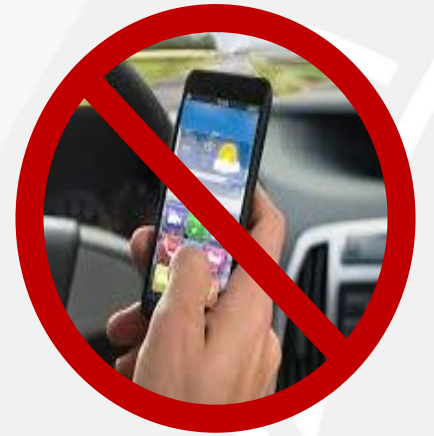
- Obey all postings/barricades/road closure signs
- Utilize a spotter when backing
- Must have a valid driver license



## **E07 – Discuss the transportation safety program.**

**Personnel may NOT use cellular telephones/portable electronic devices while operating a motor vehicle under any of the following situations, regardless of whether a hands-free device is used:**

- Government Vehicle (owned/leased/rented)
- Personal vehicle on government property
- Company owned cell phone or electronic device
- While using a cell phone or electronic device to conduct Company business



# E07 – Discuss the transportation safety program.

## THIS INCLUDES:

- Answering or making calls
- Reading, sending, or responding to emails and text messages
- Accessing the Internet
- In an emergency, drive to a safe location, pull over, and put the motor vehicle in Park before calling to report and emergency.
- Violation could result in disciplinary action, up to and including termination.



# E07 – Discuss the transportation safety program.

## Traffic Laws

- Comply with est. rules
- Obey **ALL** laws/markings/policies/guidelines
- Receive req. training
- **MUST** wear seatbelt

## Speed Zones

- **Pantex**
  - LA/PA/MAA = 20 mph
  - Lots = 15 mph
  - Ramps = 5 mph
- **Y-12**
  - Roads = 25 mph
  - Lots = 15 mph
  - PA = 15 mph

# E07 – Discuss the transportation safety program.

## **ELECTRIC CARTS:**

- Obey all laws/signs/markings/policies/guidelines
- Use bell/horn @ corners/intersections/behind people
- Use approved seats
- Charge carts in approved locations
- NEVER take into a bay/cell.

## **E07 – Discuss the transportation safety program.**

### **Nuclear Explosive/Nuclear Explosive Like Assembly (NE/NELA) Convoys or Special Nuclear Material (SNM) Vehicle**

- **Blue/amber light or other markings**
- **Always yield the right-of-way:**
  - Pull over to the right hand edge of road and stop
  - At intersection, stop and remain stopped and let pass
  - Move if needed
  - Remain at least 300 ft. behind
  - Follow direction from escorts



# E07 – Discuss the transportation safety program.

## CYCLING:

- Bicycles/Tricycles/Quadricycles
- Helmet for Bicycles
- Speed Limit = 10 mph
- DO NOT ride on sidewalks
- Ride in approved areas ONLY
- Stop/dismount/push bicycle through curtains/double-bump doors



# **EO7 – Discuss the transportation safety program.**

## **RAMP TRAFFIC:**

- Movement always has the right-of-way
- Follow walker/spotter directions
- Stay behind 25 ft.
- NEVER come from behind/pass without permission

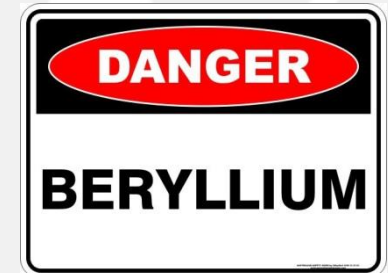
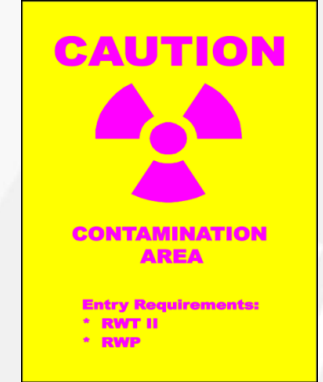
# EO8 - Discuss signs and protective tags.

## SIGNS:

**Danger:** indicates a hazardous situation that will result in serious injury or death

**Warning:** indicates a hazardous situation that could result in serious injury or death

**Caution:** indicates a hazardous situation that could result in minor or moderate injury



# EO8 - Discuss signs and protective tags.

## SIGNS:

**Safety Instruction:** provides info on general practice and rules related to health, first aid, medical equipment, PPE, etc.

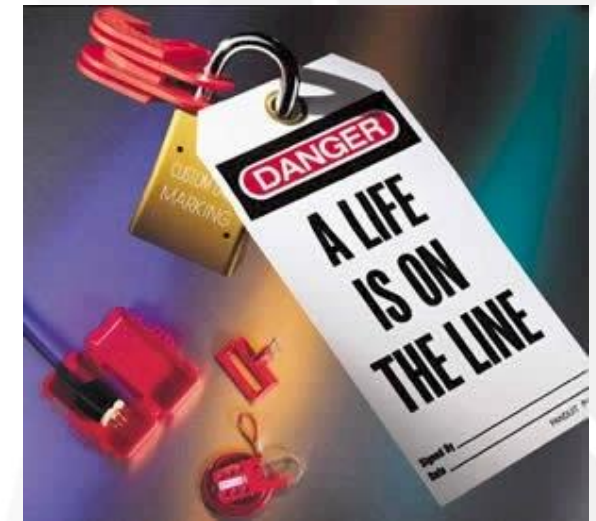
**Notice:** provides info of a general type to avoid confusion or misunderstanding/indicate company policy/should NOT be associated directly w/a hazardous situation or hazard.



# EO8 - Discuss signs and protective tags.

## PROTECTIVE TAGS:

- *Read and obey instructions*
- *Do NOT remove, deface or disturb*
- *When in doubt, ask a supervisor*



## EO8 - Discuss signs and protective tags.



### UNMARKED HAZARDS:

Employees **SHOULD NOT** enter areas/structures/spaces with these characteristics:

- Is large enough and so configured that an employee can bodily enter and perform assigned work: and
- Has limited or restricted means for entry or exit (tanks, vessels, silos, storage bins, hoppers, vaults, pits, manholes, etc.)
- Is not designed for continuous employee occupancy.

# REVIEW

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