# HAZWOPER




## WHAT'S AT STAKE?

HAZWOPER is not an anacronym. It means Hazardous Waste Operations and Emergency Response. OSHA issued the HAZWOPER Standard Regulation in March 6 / 89 to protect workers in the handling of hazardous substances safely and effectively. The HAZWOPER standard is referenced as 29 CFR 1910.120.

## WHAT'S THE DANGER?

**How is the HAZWOPER Standard applied in the workplace and generally in our communities?**

The HAZWOPER standard covers employers performing in three categories of work operations:

- Hazardous waste site cleanup operations.
- Operations involving hazardous waste that are conducted at treatment, storage, and disposal (TSD) facilities.
- Emergency response operations involving hazardous substance releases.

**WHEN DOES HAZWOPER APPLY?**

The term "emergency response" often applies generally to any activity requiring immediate attention. Under HAZWOPER, this term applies specifically to response activities where there is an *uncontrolled release of a hazardous substance*, or where an *uncontrolled release* is likely.

**EXAMPLES:**

- Leaking of a hazardous substance from a storage tank or container.
- An overturned truck or railcar carrying hazardous materials.
- Chemical fires.
- Mechanical breakdown in a chemical process.
- Excavating/trenching buried contaminants or toxins.
- Site preparation uncovering buried hazardous waste, and
- Building earthen berms to contain hazardous waste runoff.

## WHEN DOES HAZWOPER NOT APPLY?

HAZWOPER does not apply to the *accidental or foreseeable release of a hazardous substance* **that is limited in quantity, and poses no emergency or significant threat to the safety and health of workers in the immediate vicinity**. Such incidents, referred to as "incidental releases" in the definition of "emergency response or responding to emergencies" at 29 CFR 1910.120(a)(3), are limited in quantity, exposure potential, or toxicity, and have no potential of becoming emergencies within a short time frame.

**The HAZWOPER Standard is applicable if workers are:**

- Exposed to high concentrations of poisonous substances.
- Exposed to chemical conditions that pose a fire or explosion hazard.
- Entering sites with atmospheres at or above IDLH levels.
- Exposed to oxygen deficient atmospheres (less than 19.5% oxygen).
- Leading evacuations due to chemical atmospheres or oxygen deficient conditions.
- Performing confined space entry.
- Supervising workers exposed to any of the above dangers.

## HOW TO PROTECT YOURSELF

**There are five distinct operations within the scope of the HAZWOPER standard:**

**1. CLEANUP OPERATIONS**

- Cleanup operations required by a governmental body or other operations involving hazardous substances conducted at uncontrolled hazardous waste sites.
- Voluntary cleanup operations at sites recognized by federal, state, local, or other governmental bodies as hazardous waste sites.

**EXAMPLES**Site characterization of hazardous waste site.

- Drum removal.
- Contaminated soil removal.
- Underground Storage Tank (UST) removal.

**2. Corrective Actions**

- Corrective actions involving cleanup operations at sites covered by Resource Conservation Recovery Art (CRCR).

**3. OPERATIONS at TSD FACILITIES**

- Operations involving hazardous waste conducted at TSD facilities regulated by 40 CFR 264 and 265 pursuant to RCRA or by agencies under agreement with EPA to implement RCRA regulations.

**EXAMPLES**

- Handling waste at RCRA landfill.

**4. OPERATIONS that GENERATE HAZARDOUS WASTE but are *not*TSD FACILITIES**

- Businesses generating hazardous waste as a by-product of their production operations, store it for a short time, and then send to a TSD facility.

**EXAMPLES**

- Response by facility's workers to leaking hazardous waste in storage area.
- Response by facility's workers to spill of hazardous substance in production area.

**5. EMERGENCY RESPONSE OPERATIONS**

- Emergency response operations for releases of, or substantial threats of releases of, hazardous substances without regard to the location of the hazards.

**EXAMPLES**

- Response to a leaking storage tank.
- Response to an overturned truck carrying hazardous materials.
- Response to a chemical fire.
- Response to ruptured railroad tank car loaded with hazardous substance(s).

The first two **cleanup operations** describe environmental remediation activities planned at locations such as Superfund sites, Brownfield sites, abandoned industrial sites, and other similar locations. These are sites recognized by one or more governmental agencies as having the potential for worker exposure to hazardous substances.

The third operation covers **TSD facilities**, built and permitted to **receive, treat, store, and dispose of hazardous waste**. TSD employers with a RCRA permit or interim status must comply with HAZWOPER.

**Operations that generate hazardous waste but are** *not* **TSD facilities** are also covered by HAZWOPER. Manufacturing facilities that have the potential for an emergency to occur due to an uncontrolled release of hazardous substances. Conditionally-exempt small quantity generators and generators who store hazardous waste less than 90 days are covered by HAZWOPER standard.

**Emergency response operations** can occur at public and private facilities, research laboratories, universities, chemical facilities, railroads, roads/highways, and any location with the potential for accidental releases of hazardous substances. Work to contain and control such hazardous substance releases on an emergency basis, when the exact nature and extent of the hazards are unknown, is regulated under the HAZWOPER standard. For such operations, employers must comply with HAZWOPER standard.

**PREPARE AND TRAIN**

Effective preparation is essential to conducting organized and thorough response operations in an emergency. Preparation before a potential hazardous substance release is critical to ensuring that employers and workers have the proper equipment, know where to go, and know how to stay safe and healthy in the event of an actual emergency. Employers with workers in operations subject to HAZWOPER must prepare and train their workers for hazardous substance emergencies and emergency response and cleanup activities.

**OSHA’s Role in Emergency Response**

During the response to, and recovery from emergencies or disasters, OSHA helps protect the safety and health of response and recovery workers. In addition to enforcement and compliance assistance activities, OSHA can provide technical assistance and support to federal, state, local, tribal, territorial, and insular area agencies under the National Response Framework Worker Safety and Health Support Annex.

**Summation:**

The HAZWOPER standard provides employers, emergency response workers, and other workers potentially exposed to hazardous substances information and training criteria to improve workplace safety and health and reduce workplace injuries and illnesses that could occur from exposures to hazardous substances.

## FINAL WORD

It is critical that employers and workers understand the scope and application of the HAZWOPER standard to determine which sections apply to their specific operations.