Introduction to Hazardous Materials Training

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HCI Environmental & Engineering Service
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HCI Environmental & Engineering Service (HCI) is a full service environmental management company specializing in the following areas:

- Hazardous Waste Transportation & Disposal

- 24/7 Emergency Chemical Spill Response

- Environmental Construction
  - Demolition
  - Decontamination
  - Soil Excavation
  - Lead & Asbestos Abatement
  - Scrap Metal Recycling

The following training should be used for general informational purposes only. Please confirm all information with local regulatory agencies and/or an attorney prior to implementation.

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What is Hazardous Waste?

Hazardous waste is a material with properties that make it dangerous or capable of harming humans or the environment if not properly managed.

The universe of hazardous wastes is large and diverse. Hazardous wastes can be liquids, solids, or contained gases. They can be the by-products of manufacturing processes, discarded used materials, or discarded unused commercial products, such as cleaning fluids (solvents) or pesticides.

However, materials can be hazardous wastes even if they are not specifically listed or don't exhibit any characteristic of a hazardous waste. For example, "used oil," products which contain Materials on California's M-list, materials regulated pursuant to the mixture or derived-from rules, and contaminated soil generated from a "clean up" can also be hazardous wastes.
**Ignitable**
Ignitable wastes can create fires under certain conditions, undergo spontaneous combustion, or have a flash point less than 60°C (140°F).

**Corrosive**
Corrosive wastes are materials, including solids, that are acids or bases, or that produce acidic or alkaline solutions. Aqueous wastes with a pH less than or equal to 2.0 or greater than or equal to 12.5 are corrosive.

**Reactive**
Reactive wastes are unstable under normal conditions. They can cause explosions or release toxic fumes, gases, or vapors when heated, compressed, or mixed with water.

**Toxic**
Toxic wastes are harmful or fatal when ingested or absorbed. When toxic wastes are disposed, the toxic constituents may leach from the waste and pollute ground water.
What Does a Hazardous Waste Look Like?
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Who Makes Up the Waste Disposal Process?

Hazardous Waste Generator

Entity that created the waste, property owner where the waste resides and/or Responsible Party. Responsible for Hazardous Material/Waste Disposal from “Cradle to Grave”.

Hazardous Waste Transporter

Licensed by the State of California Department of Toxic Substances Control. Transports the hazardous waste via a Uniform Hazardous Waste Manifest to a licensed Treatment, Storage, Disposal Facility (TSDF).

Treatment, Storage, Disposal Facility (TSDF)

Licensed by the State of California Department of Toxic Substances Control. Receives and disposes of waste shipped on a Uniform Hazardous Waste Manifest.
Responsibility to monitor every aspect of a product or program through its entire life cycle; From design or acquisition to disposal, or from proposal to termination.
- EPA ID #’s are used to track the generation, transportation and disposal of hazardous waste

- EPA ID #’s are provided by the Environmental Protection Agency and/or the Department of Toxic Substances Control

- Any entity that generates a hazardous waste must obtain an EPA I.D. #

- All EPA I.D. #’s are site specific

- EPA ID #’s are made up of 12 characters. They consist of three letters and 9 numbers (CAL123456789)

- EPA ID #’s are listed on the Hazardous Waste Manifest under the Generator, Transporter and Disposal Facility Section
Hazardous Waste Inventory
Hazardous Waste Inventory

Step 1
Separate and consolidate all hazardous materials to one location

Step 2
Segregate materials into like waste streams
(i.e. paints, acids, caustics, petroleum products, etc.)

Step 3
Categorize like waste streams into groups that can be packaged together

Step 4
Complete inventory list and submit for profiling to HCI disposal facilities
Hazardous Waste Profiling
- All waste must be profiled and accepted into a disposal facility prior to delivery.

- Each disposal facility requires you to complete their own specific profile sheet based on their permit requirements.

- A profile is used to describe the hazardous waste that is being disposed of.

- Once the material is accepted, the facility issues a profile number. This number is used on the hazardous waste manifest to identify that particular waste stream.
## Hazardous Waste Manifest

### Form Information
- **File Name**: Hazardous Waste Manifest
- **Form Description**: Form 24-200 (Non-RR) or 24-201 (RR), depending on the nature of the waste.
- **Purpose**: To track hazardous waste generated, transported, and disposed of.

### Form Sections
1. **Shipping Information**
   - **Ship To**: Name of the recipient or facility.
   - **Address**: Complete address of the recipient.
   - **City/State/Zip**: City, state, and zip code of the recipient.
   - **Shipper**: Name of the generator.
   - **Address**: Complete address of the generator.
   - **City/State/Zip**: City, state, and zip code of the generator.
   - **Phone**: Contact phone number.

2. **Hazardous Waste Information**
   - **Waste Code**: Code identifying the type of hazardous waste.
   - **Quantity**: Total quantity of waste generated.
   - **Packaging**: Type of packaging used.
   - **Routing Information**: Route taken for transportation.

3. **Transportation Details**
   - **Transporter**: Name of the transporter.
   - **License Number**: Transporter's license number.
   - **Driver Name**: Name of the driver.
   - **Vehicle Information**: Type of vehicle used.

4. **Compliance Information**
   - **Certification**: Signature and date of the person certifying the form.
   - **Compliance Statement**: Statement confirming compliance with hazardous waste regulations.

### Form Instructions
- **Signature**: Signatures of the generator, transporter, and certifier are required.
- **Date**: Forms must be dated and signed.

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**VOID**

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**DESIGNATED FACILITY TO DESTINATION STATE IF REQUIRED**
Pollution control procedures in which a hazardous material is identified and traced from its production, treatment, transportation and final disposal through a series of permanent and linked documents called Uniform Hazardous Waste Manifests.
Item 1 Generator’s EPA ID Number
Item 2 Page ___.
Item 3 Emergency Response Phone Number.
Item 4 Manifest Tracking Number.
Item 5 Generator’s Name
Item 6 Transporter 1 Company Name & US EPA ID Number
Item 7 Transporter 2 Company Name & US EPA ID Number
Item 8 Designated Facility Name, Site Address & US EPA ID Number
Item 9 U.S. DOT Description (Including Proper Shipping Name, Hazard Class or Division, Identification Number, and Packing Group)
Item 9a If the waste identified in item 9b consist of both hazardous and nonhazardous materials, then identify the hazardous materials by entering an “X” in this item next the corresponding hazardous material identified in item 9b.
Item 9b Enter the U.S. DOT Proper Shipping Name, Hazard Class or Division, Identification Number (UN/NA) and Packing Group for each waste as identified in 49 CFR 172. Include technical name(s) and reportable quantity references, if applicable.
<table>
<thead>
<tr>
<th>Item 10</th>
<th>Containers (Number and Type)</th>
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<tbody>
<tr>
<td>Item 11</td>
<td>Total Quantity</td>
</tr>
<tr>
<td>Item 12</td>
<td>Units of measure (Weight/Volume)</td>
</tr>
<tr>
<td>Item 13</td>
<td>Waste Codes</td>
</tr>
<tr>
<td>Item 14</td>
<td>Special Handling Instructions and Additional Information</td>
</tr>
<tr>
<td>Item 15</td>
<td>Generator/Offer Certifications</td>
</tr>
<tr>
<td>Item 16</td>
<td>International Shipments</td>
</tr>
<tr>
<td>Item 17</td>
<td>Transporters’ Acknowledgements of Receipt</td>
</tr>
<tr>
<td>Item 18</td>
<td>Discrepancy</td>
</tr>
<tr>
<td>Item 18a</td>
<td>Discrepancy Indication Space</td>
</tr>
<tr>
<td>Item 18b</td>
<td>Alternate Facility (or Generator) for Receipt of Full Load Rejections</td>
</tr>
<tr>
<td>Item 18c</td>
<td>Alternate Facility (or Generator) Signature</td>
</tr>
<tr>
<td>Item 19</td>
<td>Hazardous Waste Report Management Method Codes</td>
</tr>
<tr>
<td>Item 20</td>
<td>Designated Facility Owner or Operator Certification of Receipt (Except as Noted in item 18a)</td>
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</tbody>
</table>
Generators must mail a copy of their “Generator Copy” part of the manifest to the state within 30 days of the pick up. Generators need to keep all original manifests on file for 3 years.

DTSC Generator Manifests
P.O. Box 400
Sacramento, CA 95812-0400
HAZARDOUS WASTE
STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY, OR
THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

GENERATOR INFORMATION:
NAME
ADDRESS
CITY STATE ZIP

EPA IDENTIFICATION NO. / MANIFEST TRACKING NO.
EPA WASTE NO. CA WASTE NO. START DATE

CONTENTS, COMPOSITION:

PHYSICAL STATE:
☐ SOLID ☐ LIQUID ☐ FLAMMABLE ☐ TOXIC
☐ CORROSIVE ☐ REACTIVITY ☐ OTHER

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!
Any packaging containing a hazardous waste must have a hazardous waste label attached to it.

A hazardous waste label identifies the hazardous waste generator and the contents of the container.

The Accumulation Start Date must be completed when hazardous waste is put into the container.

The generator of hazardous waste is given 90 days from the accumulation start date to dispose of the waste once the container begins accumulating waste.

Labels should not be affixed to containers not containing hazardous waste.
Hazardous Waste Violations & Fines

Common Violations Found During Environmental Agency Inspections:

- Hazardous waste storage containers not stored in proper containment area
- Hazardous waste containers without lids or bungs in place
- Hazardous waste spilled and left on ground
- Hazardous waste thought to be “Non-Hazardous” is being thrown in trash (i.e. oil and absorbent, oil filters, paint filters, aerosols, contaminated rags, etc.)
- Annual analysis not being performed on various waste streams
- Hazardous waste labels not affixed to drums containing hazardous waste
- Accumulation Start Date not filled in properly on hazardous waste label
- Hazardous waste being kept on-site longer than 90 days
- Hazardous waste manifests not completed properly
- Hazardous waste manifests not kept on file for a period of three years
- Employees not properly trained to manage hazardous waste
Hazardous Waste Violations & Fines

Department of Toxic Substances Control (DTSC)
- Up to $25,000 per day per violation

U.S. Department of Transportation (USDOT)
- $275 - $55,000 per violation/day (Damage)
- $110,000 per violation/day (Fatality)
- $110,000 per violation/day and/or 5 years jail (Willful Damage)
- $110,000 per violation/day and/or 10 years jail (Willful Fatality)

Occupational Safety and Health Hazardous Material Training (OSHA)
- $495 per violation/employee/day
Live Training

IF YOU ARE A CURRENT CLIENT AND WOULD LIKE TO SCHEDULE A *FREE “LIVE” PRESENTATION OF THE “INTRODUCTION TO HAZARDOUS WASTE” TRAINING COURSE PLEASE CONTACT YOUR ACCOUNT REPRESENTATIVE TO SCHEDULE.

IF YOU ARE NOT A CURRENT CLIENT OF HCI PLEASE CONTACT OUR CORPORATE OFFICE AT 800.988.4424 AND A QUOTE WILL BE PREPARED FOR THE PRESENTATION.

*Based on location, travel expenses may apply.
# Training Classes Provided By
## HCI Environmental & Engineering Service

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<th>Class Type</th>
<th>Description</th>
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<td>40 Hour HAZWOPER</td>
<td>Annual Hazardous Waste Manifest Training</td>
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<td>24 Hour HAZWOPER</td>
<td>Lead Awareness 8 Hr. Training</td>
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<tr>
<td>8 Hour HAZWOPER Refresher Course</td>
<td>Lead Awareness 4 Hr. Training</td>
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<tr>
<td>Confined Space Training</td>
<td>First Aid/CPR Training</td>
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<td>Respiratory Protection and FIT Testing</td>
<td>Preparation of Site Specific</td>
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<td>Equipment Training:</td>
<td>Injury Illness Prevention Plan (IIPP)</td>
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<td>Forklift</td>
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<tr>
<td>Reachlift</td>
<td>Monthly Training and Update of IIPP</td>
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<td>Boomlift</td>
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<tr>
<td>Scissorlift</td>
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<td>Skip Loader</td>
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*Custom Equipment Training Programs Available Upon Request*
Training Classes Provided By
HCI Environmental & Engineering Service

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Hazardous Waste Transportation & Disposal
- Containerized
- Bulk

Environmental Construction
- Decontamination
- Demolition
- Contaminated Soil Excavation
- Scrap Metal Recycling

24/7 Emergency Chemical Spill Response

Supplies
- UN Approved Drums, Boxes, Totes and Pails
- Personal Protective Equipment
- Spill Response Supplies