

Hazardous Material Emergency Spill Response Protocol WAC 296-824

1.0 Policy

PLU's highest priority is to protect employee and student health and safety. On that basis, PLU employees or students will not attempt to clean up an "uncontrolled release" according to the definition in WAC 296-824-100 (See 2.0 below). Uncontrolled spills shall be cleaned up only by people with Emergency Response Training (WAC 296-824-30005) and appropriate safety equipment. Some employees may be trained to respond defensively, such as applying spill adsorbent, or to evacuate buildings.

Spill response is an emergency response that will be guided by the PLU Emergency Management Plan for All Hazards & Incident Command System.

2.0 Uncontrolled or Complex Spills

An uncontrolled release is one where significant safety and health risks could be created. The American Chemical Society uses the term "complex" spill.

2.1 Examples of Conditions That Could Create a Significant Safety & Health Risk

- Large-quantity releases
- Small-releases that could be highly toxic or create a health risk
- Potentially contaminated individuals arriving at hospitals
- Airborne exposures that could exceed a permissible exposure limit (PEL) or published exposure limit AND employees are not adequately trained or equipped to control the release.

2.2 Examples of Uncontrolled or Complex Spills

- One-liter of chloroform spilled on the floor
- One-gallon of acetone in the presence of boxes, chemicals, and an ignition source.
- ¼ liter of fuming nitric acid spilled on organic material
- One liter of tetrahydrofuran spilled on the floor
- A container of solvent is knocked over by a forklift driver who is untrained and doesn't have the appropriate equipment to clean up the spill.

3.0 Incidental or Simple Spills

PLU employees are permitted to clean up "incidental releases" as defined in WAC 296-824-100. An incidental release is one that can be safely controlled at the time of the release and doesn't have the potential to become an "uncontrolled release". The American Chemical Society uses the term "simple" spill. ***If there is an exposure or other health hazard to the employee responding to the spill, it is NOT an incidental or simple spill.***

4.0 Spill Basics

Laboratory, Studio, or Shop employees are responsible for minor or incidental spills of hazardous materials utilized. Clean-up of incidental or simple spills is part of managing lab, studio, or shop chemicals properly. All labs, studios, shops, and other campus facilities where hazardous materials are used or stored must maintain spill kits for the type of materials in the space.

5.0 Procedure for Responding To a Spill

5.1 Occupant

*If you can answer “Yes” to **all** of the following questions, you may clean up the spill.*

Ask six questions:

1. Do you know what spilled?
2. Do you know the hazards of the spilled material? See MSDS/SDS.
3. Is the spill contained within the immediate area?
4. Is the danger to people or property controlled? Consider:
 - Injuries or health illness potential
 - Fire or explosion potential
 - Flammable vapors and ignition sources
 - Toxic vapors or dusts
 - Material is a strong oxidizer
 - Material is air, water, or otherwise highly reactive
5. Do you have the right spill clean-up materials in kit?
6. Can you protect yourself and others from the hazards? For example, the spill does not pose a respiratory hazard, requiring the use of a respirator.

**Are you unsure
whether the
answer is “yes”?
Then the answer
is “no”.**

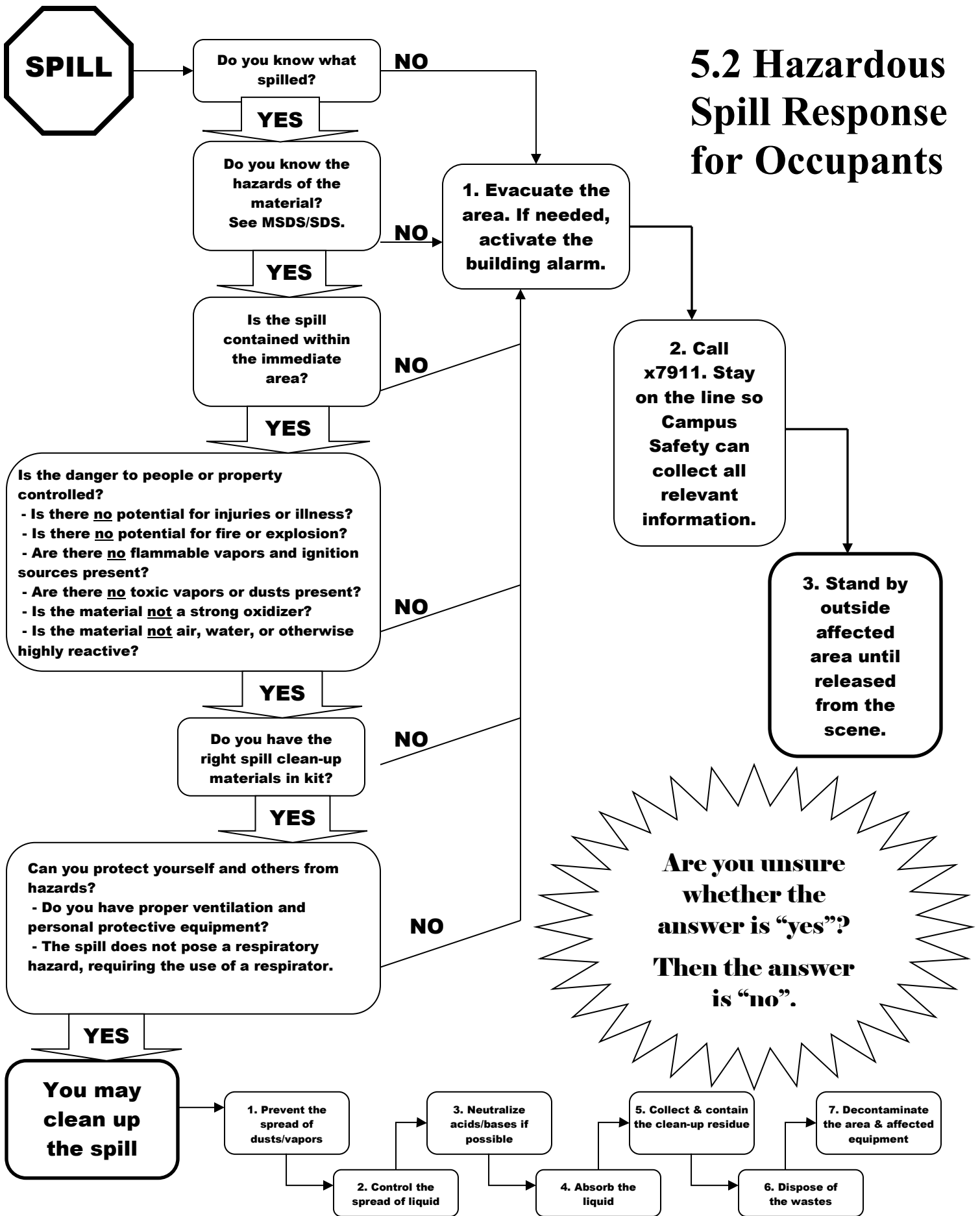
*If you answer “NO” to **any** of these questions, do NOT clean up the spill.*

Evacuate the area. If needed, activate the building alarm.

Call x7911. Stay on the line so that Campus Safety can collect information to facilitate an appropriate response.

You may be asked to join the incident command center. Please stand by outside the affected area until released from the scene.

5.2 Hazardous Spill Response for Occupants

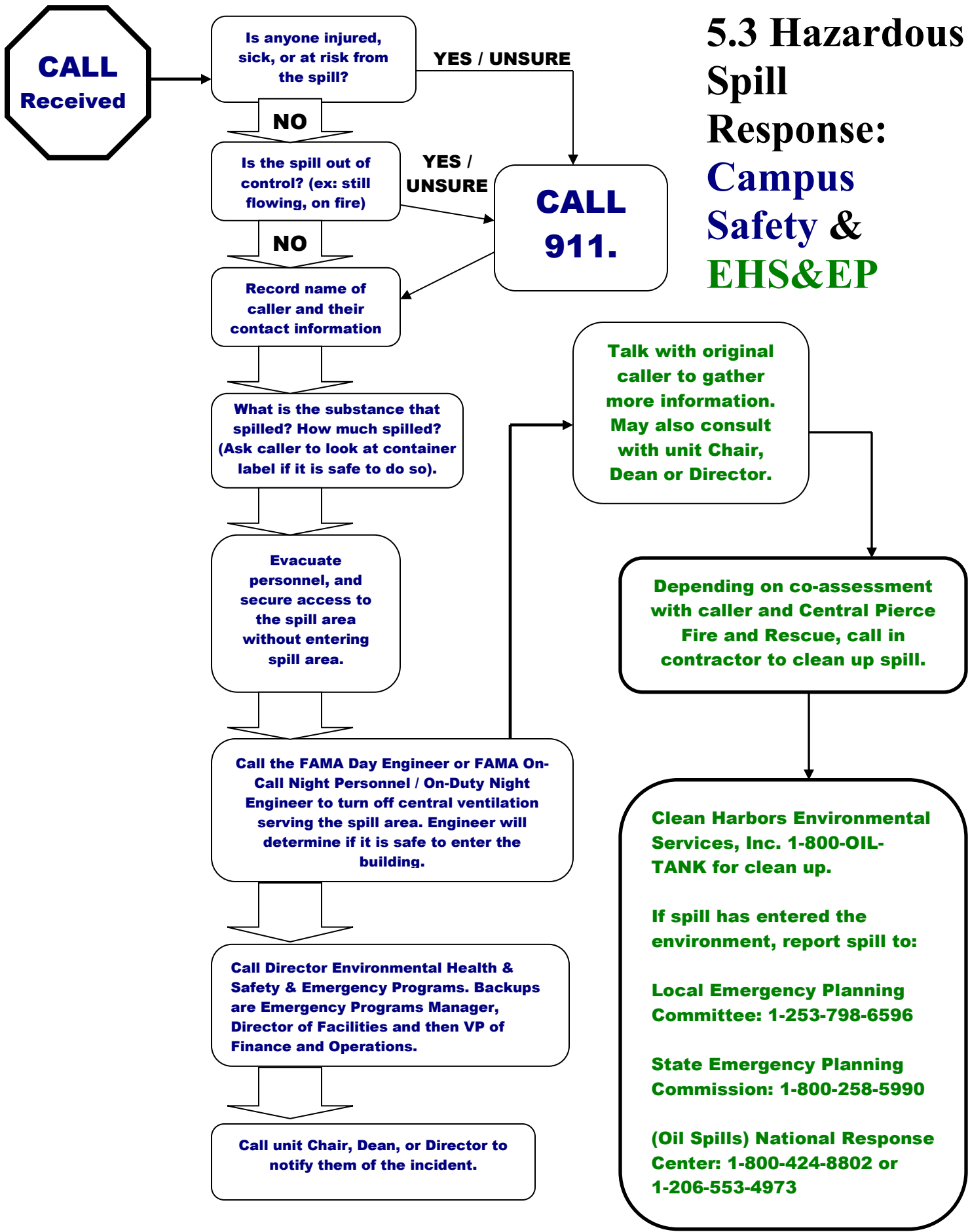


Campus Safety

Obtain the following information from the caller.

1. Is anyone injured, sick, or at risk of being injured from the spill?
Yes / I Don't Know – Call 911 **No** – Continue collecting information
2. Is the spill out of control? For example, is it still spilling from its container or on fire?
Yes / I Don't Know – Call 911 **No** - Continue collecting information
3. Who called in the report and what is the contact number for that person?
4. What is the substance that spilled? How much spilled?
Ask caller to look at container label, if safe to do so.
5. Evacuate personnel, if the caller has not already done so, and secure access to the spill area without entering spill area.
6. Call the PLU Engineer to turn off ventilation serving the spill area:
 - a. FAMA office during the day at x7380.
 - b. At night refer to current FAMA On-Call Personnel Schedule. If no answer, call FAMA On-duty Engineer via the radio on the Maintenance Channel, if not responsive call Engineer Cell at 253-219-7048.
 - * Based on information provided, FAMA on-call personnel and/or on-duty Engineer will determine if it is safe to enter the building.
7. Call Director Environmental Health, Safety and Emergency Programs. Backups are:
AVP - Facilities and then Vice President of Finance & Administration.
8. Call unit Chair, Dean, or Director to notify them of the incident.

5.3 Hazardous Spill Response: Campus Safety & EHS&EP



5.4 Environmental, Health, Safety & Emergency Programs

Talk with original caller to gather more information. May also consult with unit Chair, Dean, or Director.

Depending on co-assessment with caller and Central Pierce Fire and Rescue, call in contractor to clean up spill.

If spill has entered the environment, contact government agencies to report.

5.5 Contractor Spill Response Hotline

Clean Harbors: 1-800645-8265

NRC Environmental Services: 1-800-337-7455 or 1-800-33-SPILL.

5.6 Spill Reporting

EHS&EP will report spills that enter the environment.

Call the following for EPCRA (list at https://www.epa.gov/sites/production/files/2015-03/documents/list_of_lists.pdf) or Extremely Hazardous Substances spills. If not sure, call anyway. PLU can't get in trouble for over-reporting, but can for not reporting.

State Emergency Response Commission (SERC) 800-258-5990

Local Emergency Planning Committee (LEPC) 798-6596

Call for Oil Spill:

National Response Center (NRC) 800-424-8802 or 206-553-4973

6.0 Incidental or Simple Spill Clean Up

The following steps should be taken during simple spill clean-up.

1. Prevent the spread of dusts and vapors.
2. Control the spread of liquid.
3. Neutralize acids and bases, if possible.
4. Absorb the liquid.
5. Collect and contain the clean-up residue.
6. Label container, store appropriately and call EHS&EP (x7233) for dispose of the wastes.
7. Decontaminate the area and affected equipment.

7.0 Post-Exposure Evaluation

After completing the spill response and clean up, EHS&EP will evaluate the causes of the spill and effectiveness of the response actions to identify opportunities for improvement and revise policies, procedures, and training accordingly.

8.0 Training (WAC 296-824 Table 1 & 3)

8.1 First Responders at the Awareness Level

New employees and researchers working in a particular lab, studio, or shop must be trained as First Responders at the Awareness Level (WAC 296-824-30005) when:

- They are likely to witness or discover a hazardous substance release
- Are trained to initiate an emergency response by notifying the proper authorities of the release
- Take no further action beyond notifying the authorities

Training will include the following:

- PLU spill response policy and procedure
- Understanding what a hazardous material is and associated risks
- Recognizing presence of hazardous material during an emergency
- Identifying a hazardous material, when possible
- Understanding the potential consequences of a hazardous material in an emergency
- Using the U.S. Dept. of Transportation Emergency Response guidebook
- Recognizing the need for additional resources and the need to notify the incident's communication center accordingly.

8.2 First Responders at the Operations Level – 8 hour training

Note: PLU will not support a respiratory protection program for emergency response purposes, so response at this level will include situations that do not pose a respiratory risk. Respirators are not permitted unless pre-approved by EHS&EP to comply with WAC 296-842.

Employees who perform the following activities must be trained at this level

- Respond to actual or potential releases in order to protect nearby persons, property, and/or the environment from the effects of the release
- Are trained to respond defensively, without trying to stop the release
- May try to:
 - Confine the release from a safe distance
 - Keep it from spreading
 - Protect others from hazardous exposures

Training will include the following:

- All training items listed for Awareness Level
- Know basic hazard and risk assessment techniques
- Can select and use personal protective equipment appropriate for first responder operations level.

- Understand basic hazardous materials terms
- Can perform basic control, containment, and/or confinement operations within the capabilities of the resources and PPE available
- Understand relevant standard operating and termination procedures

8.3 Additional Training for Both Responder Levels

In addition, employees will receive training on the following.

- Evaluating whether a spill is “uncontrolled” (complex) or “incidental” (simple)
- Where spill kits are located
- How to clean up an incidental (simple) spill safely
- Procedure for responding to an uncontrolled spill
- Use of personal protective equipment for cleaning up spills
- Disposal of spill clean-up materials

It is the director, manager, supervisor or lead’s responsibility to ensure that employees are trained according to this program.