CMC

CATHOLIC MEDICAL CENTER

Handling Hazardous Waste (HW) Materials at CMC

Who Must Be Trained

- All employees with any hazardous waste related duties; and
- Employees whose actions could affect non-compliance
  - Anyone who touches hazardous waste
  - Laboratory staff, environmental services staff, facilities maintenance staff, nursing and LNA staff, OR staff, pharmacy staff.
  - Employees responsible for conducting inspections of HW storage areas
  - Employees responsible for handling HW containers (*i.e.*, labeling, moving, shipping containers)

What Must Be Covered?

- HW management procedures relevant to the positions in which personnel are employed.
- Contingency plan implementation
  - Ensure personnel are able to respond effectively to emergencies, including (if applicable):
    - Using/maintaining emergency equipment
    - Using facility communication or alarm systems
    - Responding to fires or explosions
    - Responding to Chemical Spills
    - Responding to groundwater contamination
    - Shutdown of operations

Hazardous Waste- What is it?

Waste - Anything that is **SPENT, DISCARDED or ABANDONED**

Hazardous - Potential Threat to Human Health or to the Environment

A material must first be a waste before it can be classified as a hazardous waste.

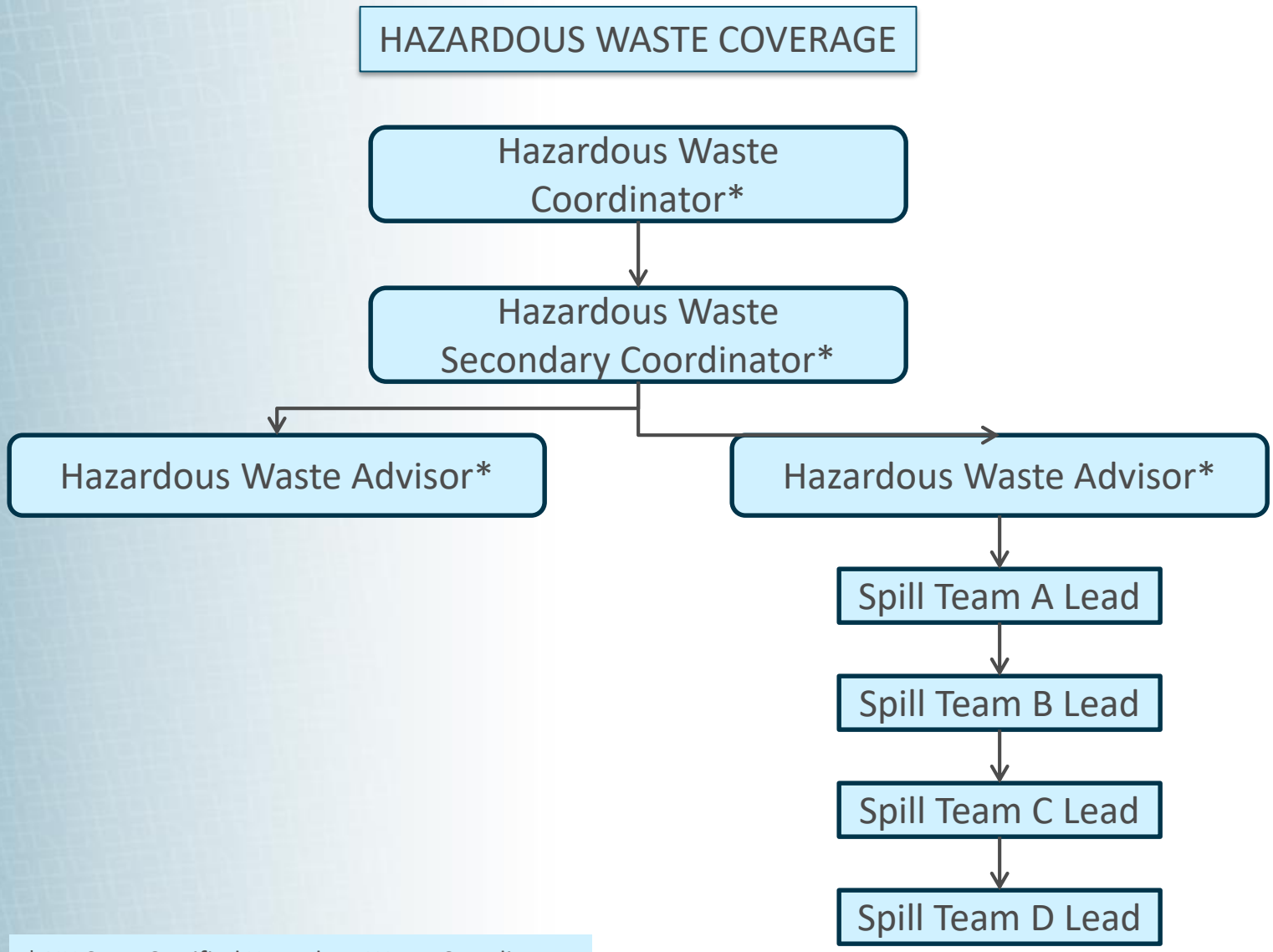
Characteristic Wastes

- **Identification of Hazardous Materials**
  - **Chemical Characteristics**
  - **Ignitability (flammable)** – examples include: xylene, benzene, ethyl ether, acetone, and methanol.
  - **Corrosivity** (pH. 2.0 or pH 12.5) – examples include: sodium hydroxide, hydrochloric acid, sulfuric acid, and formic acid.
  - **Reactivity** (unstable at normal temperatures and pressure or release of explosive vapors) – examples include: azides, hydrogen peroxide (30%), picric acid, and percholoric acid (60%).
  - **EP Toxicity** (toxic due to contaminated heavy metals or specified chlorinated organics) – examples include: compounds containing lead, mercury, chromium, arsenic, silver.
  - **Acutely Hazardous Chemical Wastes** (Section 261.33e) – examples include: arsenate and arsenic containing compounds, cyanide containing compounds, warfarin, parathion, osmium tetroxide, sodium azide.
  - **Commercial Chemical Products and Manufacturing Chemical Intermediates** – examples include: carbon tetrachloride, chlorambucil, chlordan, chloroform, DES, Mitomycin C., pyridine, toluene.
  - **Toxic Waste** – examples include: cyclophosphamide, daunomycin, phenol, and reserpine, PCBs, ethylene oxide.

CMC Hazardous Communications Plan

- Chemical and Hazardous Waste Labeling
  - Name of the chemical or waste
  - Date of collection
  - Proper notices, warnings and codes
  - Department generating the waste
- Chemical Inventory
  - Each department identifies hazardous chemicals within its area
  - Master list of hazardous chemicals maintained by safety officer
- Safety Data Sheets (SDS) – Accessed on the CMC intranet page under the, “Safety” link.

Catholic Medical Center Hazardous Materials Organization Chart



* NH State Certified Hazardous Waste Coordinator

What Am I Responsible for in My Department?

- You must be aware of non-biological hazards
- Hazardous waste collection areas must be monitored for:
  - Properly labeled containers (Name of waste, Codes listed, Date container is fill listed, Notices and Warning labels in place.
  - Check for leaks and spills
  - Ensure there is secondary containment
  - Know what to do in the event of a leak or spill
  - Full containers in satellite areas removed within 3 days of becoming full.
- Establish and Post the Evacuation Route

Emergency Response Plan

Safety Management	Safety Officer	Ken McGovern
Security	Executive Director	John Patti
Hazardous Materials	Hazardous Materials Coordinator	Ken McGovern
Biological & Chemical	Safety Officer	Ken McGovern
Radioactive	Interim Director of Imaging	Rebecca McFadden
Emergency Management	Executive Director	John Patti
Fire Safety	Facilities Director Executive Director	Brian Ramsey John Patti

Emergency Response Plan

- Incident Reporting - Hazardous Materials and Waste Spills and Exposures (EC.04.01.01, EP 8) – All hazardous materials and waste spills, exposures and other related incidents are reported to the Safety Officer. Around-the-clock response is available for all such incidents. Details of this response are provided in the Hazardous Substance Release Plan – HM-0005.
- Emergency Coordinator Responsibilities – Overall Responsibility for implementing the Contingency Plan and related hazardous waste emergency response within CMC. Facility Manager maintains responsibility for compliance with Federal, State and local environmental regulatory requirements pertaining to the day to day management of hazardous wastes.

Who is Responsible for Overall Management of Hazardous Waste at CMC?

- Hazardous Waste Coordinators
  - Primary, secondary and tertiary personnel
  - Must have attended NHDES Hazardous Waste Coordinator Training.
  - Coordinators must be at the facility where the waste was generated.
- CMC Safety Officer
  - Monitors overall safety program
  - Inspects Hazardous Waste collection and storage areas
  - Overall responsibility for Hazardous Waste Management
- Hazardous Waste Handlers
  - Environmental Services Personnel

Emergency Response Plan

- Chemical Spills
  - Incidental Spills – Are less than 1 gallon of liquid, can be safely neutralized and cleaned up by trained staff using spill control kits and PPE.
  - Major Spills – Greater than 1 gallon or cannot be safely cleaned up by staff.
- Incident Responses for major spill (staff)
  - Call 2111 announce the spill, location, substance that was spilled.
  - Attempt to dam the spill to keep it from open floor drains.
  - Evacuate the room or building.

Summary

- All personnel handling hazardous waste at CMC must be trained within 6 months of employment and annually thereafter.
- Hazardous Waste Regulations put forth by the EPA, OSHA and State DES offices
- RCRA (Resource Conservation and Recovery Act of 1976) is the law governing Hazardous and Solid Waste.
- Hazardous Waste Determination – Listed and Characteristic Wastes.