

# Best Practices for Lab Specific Chemical Hygiene Training Refresher



**“I must not have been listening  
when you explained something  
very important to me.”**

# What is Lab Specific Chemical Hygiene Training?

- Training given by the EHS rep or PI when people join a lab and yearly thereafter.
- Goal is to ensure personnel have a basic understanding of:
  - The specific chemical hazards in the lab.
  - Procedures and equipment available to protect them from the hazards.
- Helps meet regulatory requirements for compliance with the OSHA Lab Standard.

# Giving Effective Training

- Recommendation is for training in the form of a group presentation once per year.
- Resources from EHS:
  - Template slides from EHS.
  - “Guidance for Lab Specific Chemical Hygiene Training” document.
  - Lab Specific Training checklist.
- Don’t treat the training as something you have to do just so people can sign the training roster – use it as an opportunity to educate the lab.

# Cover the Basics

- Who are the “important” people in the lab – EHS rep, hazardous waste stewards, etc.
- What to do if there is a spill – major and minor.
- What to do if there is an accident.
- What to do if the fire alarm goes off.
- Who to call for various issues – EHS vs. x100 vs. Facilities vs. Medical.



## MIT Emergency Numbers

<b>x100 or 617-253-1212</b>	<b>617-253-4481 or 3-1311</b>	<b>617-253-4948 (FIXIT)</b>	<b>617-452-3477 (2-EHSS)</b>
<b>MIT Emergency Number</b>	<b>MIT Medical Urgent Care</b>	<b>Facilities Emergency Number</b>	<b>EHS Office</b>
24/7	24/7 advice line 7am – 11 pm daily for walk-in at Bldg E23	24/7	8AM – 5 PM (after hrs dial x3-4948 and request EHS on-call)

# Include Lab-Specific Hazards

- Approach the training as a *hazard* training, not just a *chemical* training.
- Highlight biological, chemical, radiological, and/or physical hazards – and what to do to protect against those hazards.
- Review any lab-specific SOPs.

# Chemotherapeutic SOP

- SOP (**S**tandard **O**perating **P**rocedure) for chemotherapeutics
  - Outlines safety protocols to follow any time you work with chemotherapeutic agents
  - Current drugs in SOP include ganetespib, PU-H71, FG-4592, bortezomib (velcade), WP1130, doxorubicin, and cisplatin
  - If you are working with other chemotherapeutics, let me know so your drugs can be added to the SOP

# Chemotherapeutic SOP

- Wear appropriate PPE to cover skin and nitrile double-gloves.
- Use biosafety cabinet.
- Immediately wipe up any spills, including powders during drug suspension.
- Use yellow PHS sign where chemotherapeutics are in use (hood, incubator).
- Solid waste goes in burn boxes.



# Review Hot Topics

- Check with your Mary to see if there are specific topics to focus on.
- Examples:
  - Global Harmonization overview – SDS vs. MSDS, new pictograms.
  - Active shooter training.
  - Working alone policy.

# Discuss Common Problems

- What recurrent problems do you see during Level I Inspections?
- What issues were noted during Level II Inspections?
- Ask lab members what they see that should be addressed.
- Is a specific type of incident common in your DLC?

# Which One is Full?



# Make it Interesting

- Don't just show a bunch of Powerpoint text slides – mix it up to keep people's attention.
- Use pictures.
- Get group participation.

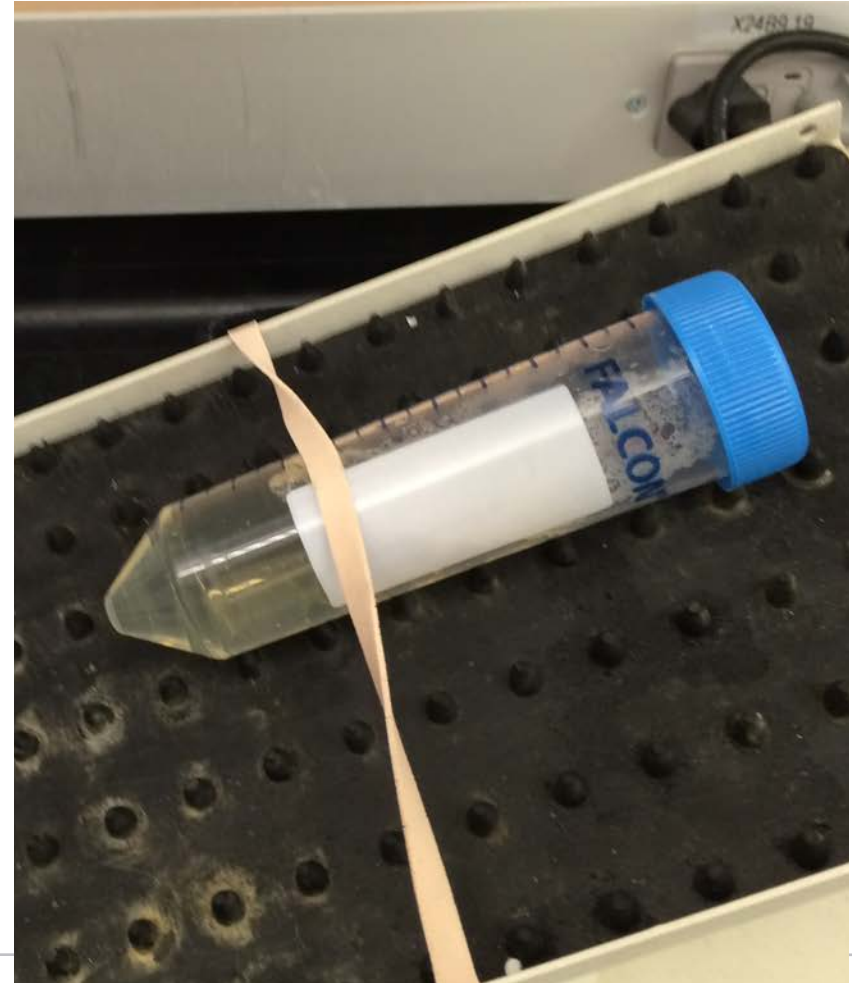
# What's Wrong With This Picture?



# Hallway Safety

- One glove rule.
- Don't take lab materials into public areas.
- Take off lab safety gear when leaving the lab space.
- Use service elevators for lab materials.
- Use cart in Lab Support Room if needed for transporting materials, such as media bottles.

# What's Wrong With This Picture?



# Chemical Labeling

- All chemical containers must be labeled so everyone in the lab knows the contents.
- Put your name/initials on containers you alone use.
- Chemical containers should be capped appropriately to prevent evaporation or leaks.



“Don’t worry. I know exactly where all the dangerous unlabeled bottles are.”



# Distribute Relevant Documents

- After the training, make sure any documents you mention are distributed to the lab.
  - SOPs
  - PPE guidance
  - Phone charts
  - Other relevant items