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