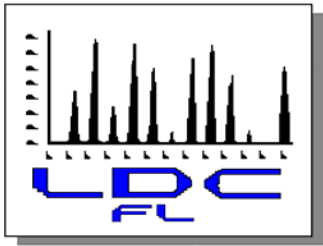
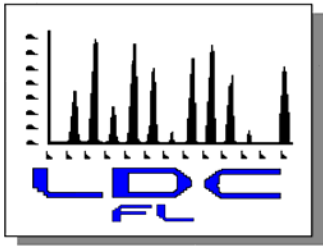


# How to establish a Hygiene and Safety program in the laboratory



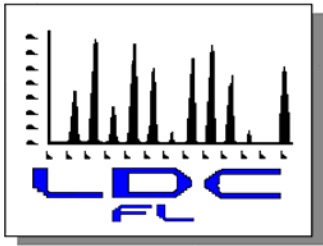
# Why

It is a moral and ethical matter, to see to the well being of all persons that surround us, and specially those people that we work for, work with us and or work for us. For that matter, the US government, through OSHA, has established regulations to prevent un-ethical behavior with respect to working conditions by establishing a minimum of safety and hygiene rules to be followed in all work places and of particular interest to us, in the laboratory.



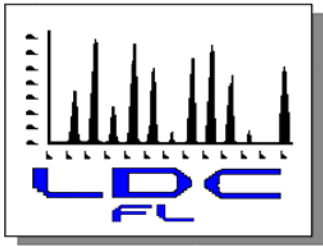
# STEPS

- Read References
- Write Documentation
  - Hygiene Plan
  - Safety Manual
- Train Safety Officers
- Train Personnel
- ENFORCE!!!!



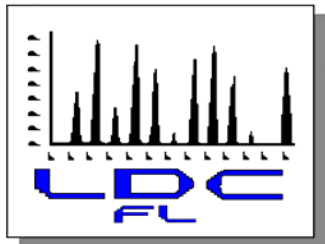
# Documents

- Chemical, Biological, Radiological Hygiene Plan  
This is like the QAM
  
- Laboratory Safety Manual  
This is like a big SOP



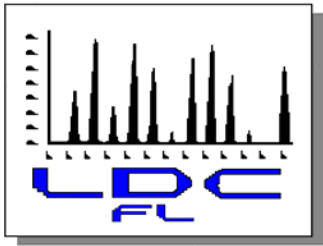
## The Hygiene Plan

- Defines the roles of Personnel and their obligations
- Defines medical conditions, examinations and requirements
- Describes type of equipment needed
- Defines training requirements
- Define policies to be implemented to protect lab personnel, visitors to the lab, etc.



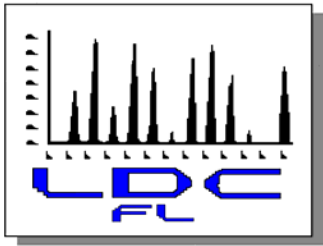
# The Safety Manual

- Contains inventory of all safety equipment available in the laboratory
- Describes the use requirements for equipment/clothing that needs to be used while working in the laboratory
- Describes in detail what to do in case of spills, body accidents (inhalation, dermal contact, ingestion, etc.) for each different type of chemical.
- Describes in detail what to do in case of fire, flood, explosion and also preventive measures that includes hurricane preparedness
- Lists who to call, where to go (including post/placards in and around the lab)
- Describes what to do with Hazardous Wastes, pick up schedules, etc.
- List chemicals used in the lab as well as their appropriate handling (inventory)



## REFERENCES

- Occupational Exposure to Hazardous Chemicals in Laboratories  
OSHA: 29 CFR 1910.1450
- MSDSs
- EPA's Hazardous Waste Regulations  
40 CFR 261.33(e), 262.33(e), 262.34(c), 265.171, 265.172, 265.173(a)
- OSHA Carcinogen List
- Standard Methods: 1090 and 1100



## Contacts:

- Catherine Katsikis  
+1-561-512-9956  
ckatsikis@ldcfl.com
- Julio Paredes  
+1-561-254-6593  
jparedes@ldcfl.com