LABORATORY SAFETY

Regulations governing Laboratory Safety at the University of Utah:

1. 29 CFR 1910.1450 Occupational Exposure to Hazardous Chemicals in Laboratories
2. 20 CFR 1910 Subpart Z Toxic and Hazardous Substances
4. 29 CFR 1910.1030 Blood Borne Pathogens
5. 29 CFR 1910.147 Control of Hazardous Energy
6. 29 CFR 1910 Subpart I Personal Protective Equipment
7. 29 CFR 1910.95 Occupational Noise Exposure
9. 29 CFR 1910 Subpart E Means of Egress
10. 29 CFR 1910.97 Non-Ionizing Radiation
11. 29 CFR 1910 Subpart H Hazardous Materials
12. 29 CFR 1910 Subpart K Medical and First Aid
14. 29 CFR 1910 Subpart O Machinery and Machine Guarding
15. 29 CFR 1910 Subpart S Electrical
16. 29 CFR 1910 Subpart D Walking Working Surfaces
17. 29 CFR 1910 Subpart J General Environmental Controls
18. 29 CFR 1910.101 Compressed Gases
19. 40 CFR Part 792 Good Laboratory Practices
21. 21 USC Chapter 13 Controlled Substances Act
22. 42 CFR 73.3 Select Agents
23. 9 CFR 121.3, 121.4 Select Agents
24. 7 CFR 331.3 Select Agents

Consensus standards covering Laboratory Safety:

25. NFPA 45 Standard on Fire Protection for Laboratories Using Chemicals
26. ANSI Z9.5-2012 Laboratory Ventilation
27. ANSI 358.1-2009 Standard for Emergency Eyewashes and Shower Equipment
29. Guide for the Care and Use of Laboratory Animals, The National Academy of Science
30. ACGIH Threshold Limit Values and Biological Exposure Indices, ACGIH

Guidance Documents Illustrating Best Practices for Laboratory Safety

31. Prudent Practices in the Laboratory, The National Academy of Science
32. Design Requirements Manual for Biomedical Laboratories and Animal Research Facilities, *NIH Office of Research Facilities*
33. NIOSH Pocket Guide to Chemical Hazards, *Dept. of Health and Human Services*

**Major EHS Responsibilities**
- Program/Policy/Rule/Guideline Development and Oversight
- Laboratory Audits/Inspections
- Risk Assessment
- Protocol Review
- Hazardous Materials Inventories
- Documentation and Recordkeeping
- Meetings/Consultations/Training
- Fume Hood Testing
- Emergency Shower/Eyewash Testing
- Incident Response

**Relevant Professional Certifications**
- National Registry of Professional Chemists – Certified Chemical Hygiene Officer
- American Board of Industrial Hygiene – Certified Industrial Hygienist
- Board of Certified Safety Professionals – Certified Safety Professional

**Comments:** Top level lab safety requires a commitment from principal investigators and lab management personnel to provide training on laboratory specific hazards.