



QUALIFICATION IN LABORATORY SAFETY (QLS) Topic Outline

I. MANAGEMENT (18-22%)

- A. Administrative
 - 1. Risk assessment/management
 - a. Planning
 - b. Quality control
 - 2. Medical surveillance
 - a. Employee evaluation
 - 3. Emergency preparedness
- B. Regulatory Agencies
 - 1. Federal (e.g., OSHA, CDC, DOT, FDA, EPA, RCRA)
- C. Training and Education

II. GENERAL SAFETY (18-22%)

- A. Ergonomics
- B. Fire Safety
 - 1. Extinguishers
 - 2. Evacuation procedures
- C. First Aid
 - 1. Burns
 - a. Chemical
- D. Signs and Labels
 - 1. Warning
 - 2. NFPA

III. CHEMICAL SAFETY (18-22%)

- A. Chemical Classifications
 - 1. Corrosive
 - 2. Flammable
- B. CHO/CHP
 - 1. MSDS
- C. Storage
- D. Radiation

IV. BIOHAZARD CONTROL (18-22%)

- A. Infection Control
- B. PPE
- C. Standard Precautions, Universal Precautions

V. PHYSICAL AND ENVIRONMENTAL (18-22%)

- A. Equipment
 - 1. Ventilation
 - a. Hoods
 - b. Vents
 - c. Isolation
 - 2. Biological safety cabinets (e.g., NSF49)
 - 3. Storage cabinets
 - 4. Centrifuges
- B. Spills and Clean-Up
- C. Disposal and Waste Management
- D. Disinfection and Decontamination