

1. Brief History of Health and Safety Law

- 1.1 Early Provisions
- 1.2 The Age of Industrialization
- 1.3 Into the 20th Century
- 1.4 The Depression
- 1.5 World War II
- 1.6 The New Era of Industry
- 1.7 The Health and Safety Crisis of the 1960's
- 1.8 The OSH Act
- 1.9 Implementation of the OSH Act
- 1.10 Hazardous Waste Operations
- 1.11 Sources of Information
- Appendix: Elements of 29 CFR – Labor Law

2. Regulations

- 2.1 Regulations Overview
- 2.2 The Scope of OSHA – Federal and State
- 2.3 Federal Rules Governing Health and Safety for Hazardous waste Operations
- 2.4 The Occupational Safety and Health Administration and the Environmental Protection Agency
- 2.5 Other Significant Occupational Health and Safety Groups
- 2.6 OSHA Requirements for Hazardous Waste Operations
- 2.7 Other Pertinent Regulations
- 2.8 Definitions
- 2.9 Sources of Information
- Appendix A:** Hazard Communication Standard, 29 CFR 1910.1200
- Appendix B:** National Contingency Plan, 40 CFR 300
- Appendix C:** SARA Title III
- Appendix D:** Sample MSDS
- Appendix E:** Engineering Controls

3. Chemistry of Hazardous Substances

- 3.1 Nature of Chemical Substances
- 3.2 Physical States of Matter
- 3.3 Chemical Terms Relating to Fire and Explosion Hazards
- 3.4 Other Chemical Terms
- 3.5 Sources of Information

4. Basic Toxicology

- 4.1 Dose/Response Relationships
- 4.2 Exposure Routes
- 4.3 Exposure Limits

- 4.4 Limitations of Exposure Values
- 4.5 Sensitivity
- 4.6 Chemical Interaction
- 4.7 Acute and Chronic Toxicity
- 4.8 Other Terms Used in Toxicology
- 4.9 Sources of Information

5. Physical and Environmental Hazards

- 5.1 Explosion and Fire
- 5.2 Oxygen Deficiency
- 5.3 Biologic Hazards
- 5.4 Topographic and Physical Hazards
- 5.5 Electrical Hazards
- 5.6 Heat Stress
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- 5.8 Noise
- 5.9 Other Potential Hazards
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6. Radiation Hazards

- 6.1 Types of Radiation
- 6.2 Toxicology of Radiation Exposure
- 6.3 Radiation Dosage and Related Terms
- 6.4 Radiation Controls
- 6.5 Personal Monitoring
- 6.6 Radiation in the Environment
- 6.7 Transportation Controls
- 6.8 Sources of Information

7. Medical Monitoring

- 7.1 Developing a Program
- 7.2 Pre-Placement Screening
- 7.3 Periodic Medical Examinations
- 7.4 Exposure Specific Exams
- 7.5 Termination Examination
- 7.6 Emergency Treatment
- 7.7 Nonemergency Treatment
- 7.8 Medical Records
- 7.9 Program Review
- 7.10 Sources of Information

8. Air Monitoring

- 8.1 Selection Criteria
- 8.2 Combustible Gas Indicators
- 8.3 Oxygen Meters
- 8.4 Photo-ionization Detectors
- 8.5 Flame Ionization Detectors
- 8.6 Colorimetric Indicator Tubes
- 8.7 Radiation Meters
- 8.8 Miscellaneous Instr

9. Planning and Organization

- 9.1 Organizational Structure
- 9.2 Work Plan
- 9.3 Site Health and Safety Plan
- 9.4 Safety Meetings and Inspections
- 9.5 Sources of Information

10. Site Characterization

- 10.1 Off-Site Characterization
- 10.2 On-Site Survey
- 10.3 Information Documentation
- 10.4 Monitoring
- 10.5 Exposure Record Retention
- 10.6 Sources of Information

11. Site Control

- 11.1 Site Map
- 11.2 Site Preparation
- 11.3 Site Work Zones
- 11.4 The Buddy System
- 11.5 Site Security
- 11.6 Communication Systems
- 11.7 Safe Work Practices
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12. Emergency Planning and Spill Control

- 12.1 Planning
- 12.2 Personnel
- 12.3 Training
- 12.4 Emergency Response Actions
- 12.5 Confinement and Containment
- 12.6 Communications
- 12.7 Safe Distances and places of Refuge
- 12.8 Evacuation Routes and Procedures
- 12.9 Decontamination
- 12.10 Medical Treatment and First Aid
- 12.11 Documentation
- 12.12 Sources of Information

13. Example of a Site Health and Safety Plan (HASP)

- 13.1 Development and Content
- 13.2 Contents of a Site HASP
- 13.3 Sources of Information
Site-Specific Health and Safety Plan
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- 14.1 Inspection
- 14.2 Planning
- 14.3 Handling
- 14.4 Opening Containers
- 14.5 Sampling Contents of Containers
- 14.6 Characterization of Contents
- 14.7 Staging Containers
- 14.8 Bulking Containers
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15. Resources

- 15.1 Published Sources of Hazardous Substances Information
- 15.2 Computer Databases of Hazardous Substances Information
- 15.3 Other Sources of Hazardous Substances Information