TRAINING OUTLINE

COURSE TITLE: _____ **DATE:** _____ **INSTRUCTOR:** _____

LOCATION: _____ **TIME:** _____ **COMPANY:** _____

Safety training was conducted on the above date by the instructor indicated. The following line items identify the topics covered during the training session.

SUMMARY OF TRAINING

1) Introduction
    a) History Behind HAZWOPER
    b) RCRA
    c) CERCLA
    d) HSWA
    e) SARA
    f) HAZWOPER
    g) Standards
    h) Why Training
    i) Additional Training
    j) Who is HAZWOPER for?
    k) Training Outline
    l) Regulations & Overview
    m) Site Characterization
    n) Drum Handling
    o) Confined Spaces
    p) Hazard Recognition
    q) Excavation
    r) Toxicology
    s) Personal Protective Equipment
    t) Air Sampling
    u) Decontamination
    v) Medical Surveillance
    w) Emergency Response
    x) Hazard Definitions
    y) Going Forward
2) Regulations & Overview
    a) OSHA & NIOSH
        i. History of OSHA
        ii. Mission of OSHA

iii. NIOSH
iv. NIOSH's Mission

b) **OSHA Standards: An Overview**
i. What are OSHA Standards?
ii. HAZWOPER Standard
iii. When HAZWOPER Doesn't Apply
iv. Conflicting or Overlapping Standards

c) **Employer Responsibilities**
i. Hazard-Free Workplace
ii. Training
iii. Provide PPE
iv. Record Keeping
v. Reporting

d) **Worker Rights**
i. Safe & Healthful Workplace
ii. Know About Hazardous Chemicals
iii. Know About Injuries & Illnesses
iv. Complain or Request Corrections
v. Training
vi. Access to Exposure & Medical Records
vii. File a Complaint with OSHA
viii. Participate in an OSHA Inspection
ix. Freedom from Retaliation

e) **Worker Responsibilities**
i. Read the OSHA Poster
ii. Compliance
iii. Report Hazards
iv. Report Injuries or Illnesses
v. Cooperate with OSHA

3) Site Characterization
a) Standards
b) **Hierarchy of Controls**
i. Elimination or Substitution
ii. Administrative Controls
1. Training
iii. Engineering Controls
iv. PPE
c) Standard Operating Procedures

d) Standing Orders
e) **Site Safety & Health Plan**
    i. Safety & Health Risk
    ii. Training
    iii. Medical Surveillance
    iv. Air Monitoring
    v. Site Control
    vi. Decontamination
    vii. Emergency Response Plan
    viii. Confined Spaces
    ix. Spill Containment
    x. Site Safety & Health Supervisor
f) **Site Characterization**
    i. Hazard Identification
    ii. Project Team Leader
    iii. **Preliminary Evaluation**
        1. Offsite Characterization
        2. Interviews & Records
        3. Site Access
        4. Perimeter Reconnaissance
        5. Aerial Photos
        6. Preliminary Site Map
        7. PPE Selection
    iv. **Onsite Characterization**
        1. Onsite Survey
        2. Site Entry Team
        3. Sampling
        4. Environmental Factors
        5. Wind Barriers
        6. Pathways of Dispersion
g) **Risk Assessment**
    i. Hazard Identification
    ii. What is Risk?
    iii. Monitoring
    iv. Ongoing Monitoring
    v. Hazard Recognition
h) **Documentation & Communication Plan**
    i. Employee Notification

ii. Documentation
iii. Field Logbook
iv. Hazardous Substance Information Form
v. **Communication Plan**
    1. Communication Systems
    2. Internal
    3. Alarms & Signals
    4. External

i) **Site Control**
    i. Site Work Zones
    ii. Exclusion Zone (EZ)
    iii. Hot Line
    iv. Establishing the Hot Line
    v. Personnel in the Exclusion Zone
    vi. Contamination Reduction Zone (CRZ)
    vii. CRZ Layout
    viii. Support Zone (SZ)
    ix. SZ Layout
    x. Command Post
    xi. Refuges
    xii. Evacuation Routes
    xiii. Medical Stations
    xiv. Field Lab Testing
    xv. Administrative Activities
    xvi. Conclusion

4) **Hazard Recognition**
    a) Standards
    b) **Fire and Explosions**
        i. Flammability
        ii. Fire Triangle
        iii. Flammable Solids
        iv. Water-Reactive
        v. Pyrophoric
        vi. Oxidizers
        vii. Organic Peroxides
        viii. Unstable Reactive
    c) **Safety Hazards**
        i. Carcinogens

ii. Ionizing Radiation
iii. Air Quality
iv. Oxygen Deficiency
v. Struck By
vi. Caught In and Between
vii. Electrical
viii. Lightning
ix. Slips, Trips, Falls
x. Ladders
xi. Stairways
xii. Dockboards
xiii. Scaffolding
xiv. Uneven Terrain
xv. Heights
xvi. Heat and Cold
xvii. Hearing
xviii. Ergonomics
xix. Environmental Hazards
xx. Other Hazards

d) **Biological Hazards**
   i. HPV B & C
   ii. HIV/AIDS
   iii. Other Biological Diseases

e) **Identification**

f) **Safety Data Sheets (SDSs)**
   i. Section 1: Identification
   ii. Section 2: Hazard Information
   iii. Section 3: Composition
   iv. Section 4: First Aid
   v. Section 5: Firefighting
   vi. Section 6: Accidental Release
   vii. Section 7: Handling and Storage
   viii. Section 8: Exposure Controls/PPE
   ix. Section 9: Physical and Chemical Properties
   x. Section 10: Stability and Reactivity
   xi. Section 11: Toxicological Information
   xii. Section 12: Ecological Information
   xiii. Section 13: Disposal Considerations

xiv. Section 14: Transportation
xv. Section 15: Regulatory Information
xvi. Section 16: Other Information

g) **Labels**
i. Six Elements
ii. Manufacturer Information
iii. Product Identifier
iv. Signal Words
v. Hazard Statement
vi. Precautionary Statements
vii. Pictograms
viii. Health Hazard
ix. Flame
x. Exclamation Mark
xi. Gas Cylinder
xii. Corrosion
xiii. Exploding Bomb
xiv. Flame over a circle
xv. Skull and Crossbones
xvi. Environment
xvii. National Fire Protection Agency
xviii. HMIS
xix. Onsite Labeling
xx. DOT Classification

h) **Other Identification Methods**
i. Hazardous Waste Identification Process
ii. Hazardous Waste Site Characteristics
iii. Ignitibility
iv. Corrosivity
v. Reactivity
vi. Toxicity
vii. Training

5) Training
a) Pre-Entry Training
b) Training Elements
c) General Site Worker
d) Occasionally Onsite
e) Monitored Areas

f) Management & Supervisors
g) Equivalent Training
h) Trainers

6) Confined Spaces
a) Characteristics of a Confined Space
b) Standards
c) Two Options for Entry
d) Non-Permit Required Confined Space
e) Permit-Required Confined Space
f) Hazardous Atmosphere

7) Testing
a) Oxygen
b) When to Test
c) How to Test
d) Oxygen Content
e) Gas, Vapors, Dust
f) Toxic Contaminants
g) Sampling
h) Sample Draw
i) Diffusion
j) Monitors
k) Testing Equipment
l) Measuring Limits
m) Operational Limits

8) Toxicology
a) Standards
b) Chemical Interactions with the Body
i. Chemical Interaction with the Body
ii. Individual Characteristics
iii. Age
iv. Gender
v. Pre-Existing Conditions
vi. Genetics
vii. Toxic Chemicals
viii. Highly Toxic Chemicals
ix. Gosselin, Smith, and Hodge Table
x. Dose & Duration
c) Routes of Exposure

i. Inhalation
ii. How Inhalation Works
iii. Cutaneous (Skin & Eye)
iv. Chemical Absorption Through the Skin
v. Direct Effects
vi. Systemic Effects
vii. Eyes
viii. Acids
ix. Alkali (Bases)
x. Ingestion
xi. Injection

d) **States of Matter**
   i. Solids
      1. Dust
      2. Metal Fumes
      3. Flammable Solids
      4. Plastics
      5. Polyurethane
   ii. Liquids
      1. Combustible Liquids
      2. Flammable Liquids
      3. Volatile Liquids
      4. Aerosolized Liquids
      5. Corrosive Liquids
   iii. Gases
      1. Corrosive Gases
      2. Asphyxiant Gases

e) **Types of Toxicants**
   i. Conditions & Symptoms: Acute & Chronic
   ii. Acute Symptoms
   iii. Chronic Symptoms
   iv. Asphyxiants
      1. Hypoxia
      2. Carbon Monoxide
      3. Hydrogen Sulfide
      4. Hydrogen Cyanide
   v. Neurotoxins
   vi. Organic Solvents

vii. Heavy Metals
viii. Mercury
ix. Carcinogens
x. Ionizing Radiation
xi. Carcinogenic Chemicals
xii. Carcinogenic Metals
xiii. Allergens
xiv. Irritants & Sensitizers
xv. Sensitizers
xvi. Teratogens
xvii. Mutagens
xviii. Radiation
1. Non-Ionizing Radiation
2. Ionizing Radiation

f) **Target Organ Toxicity**
i. Hepatotoxins (Liver)
ii. Nephrotoxins (Kidney)
iii. Neurotoxins (Nervous System)
iv. Hematopoietic Toxins (Blood)
v. Reprotoxic (Reproductive System)
vi. Pulmonary Toxins (Lungs)
vii. Asbestosis
viii. Chronic Bronchitis
ix. Radiation
1. Alpha Radiation
2. Beta Radiation
3. Gamma Radiation
4. X-Rays
5. Radiation Sickness

g) **Exposure Standards**
i. IDLH
ii. Threshold Limit Values (TLVs)
iii. Lethal Dose (LD50)
iv. Limit Measurements
v. Chemical Combinations
vi. Additive
vii. Synergistic
viii. Potentiation

ix. Antagonistic

9) Site Monitoring

a) Standards

b) Monitoring Devices

i. Types of Air Sampling Devices

1. Direct Reading Instruments
2. On-Person or Clip-On Devices
3. Four-Gas Monitors
4. Single-Gas Monitors
5. Handheld Air Monitors
6. Flame Ionization Detector
7. Portable Infrared Spectrophotometer
8. Photoionization Detector
9. Oxygen Meter
10. Combustible Gas Indicator
11. Radiation Detectors
12. Colorimetric Indicator Tubes
13. Indirect Reading Instruments
14. Active Sampling Devices
15. Passive Sampling Devices

ii. Device Usage

1. Direct Reading Instruments
2. On-Person Devices
3. Handheld Devices
4. Colorimetric Tubes
5. Indirect Reading Instruments
6. Stationary Sampling Devices
7. Personal Sampling Devices
8. Passive Sampling Devices

iii. Calibration

1. On-Person & Handheld Monitors
2. Active Sampling Pumps

c) Sample Handling

i. Laboratories

ii. Sample Collecting

iii. Direct Reading Instruments

iv. Active Sampling

v. Passive Sampling

vi. Documenting
vii. Transport

d) Air Monitoring
i. Initial Entry
ii. General Onsite Monitoring
iii. Perimeter Monitoring
iv. Periodic Monitoring
v. Personal Monitoring
vi. Additional Monitoring Locations

e) Monitoring Variables
i. Temperature
ii. Windspeed
iii. Rainfall
iv. Moisture
v. Vapor Emissions
vi. Work Activities

f) General Site Monitoring
i. Types of Samples
ii. Spills Samples
iii. Soil Monitoring
iv. Water Sampling
v. Sampling Equipment
vi. Sampling Equipment for Soils
vii. Hand Shovel
viii. Core Samplers & Soil Probes
ix. Soil Auger
x. Sample Pans
xi. Sampling Equipment for Liquids
xii. COLIWASA
xiii. Pipettes & Droppers
xiv. Bailers
xv. Sample Dippers
xvi. Weighted Bottle Sampler
xvii. Sampling Containers
xviii. Conclusion

10) Illumination, Sanitation, & New Technology
a) Standards
b) Illumination

i. What is Light?
ii. How Does it Affect You?
iii. Worker Visibility
iv. Illumination Intensities
v. Light Meter
vi. LED Light Meter
vii. Glare
viii. Lighting Types
ix. Personal or Portable
x. Area Lighting
xi. Task
xii. Emergency Lighting
xiii. Daylight
xiv. Light Quality
xv. Direction
xvi. Electric Switches
xvii. Maintenance

c) Sanitation
i. Potable & Non-Potable Water
ii. Toilets
iii. Food Handling
iv. Temporary Sleeping Quarters
v. Washing Facilities
vi. Showers & Change Rooms
vii. Waste Disposal
viii. Housekeeping

d) New Technology Programs

11) Material Handling

a) Standards
b) General
c) Inspection & Planning
i. Symbols & Labels
ii. Deterioration & Pressure
iii. Monitor Area
iv. Planning
1. Hazard Awareness

d) Equipment
i. Drums & Other Containers

1. Polyethylene or PVC-Lined Drums
2. Single-Walled Drums
3. Laboratory Packs
4. Plastic Drums
5. Steel Drums
6. Salvage Drums
7. Fiber Drums
8. 7A Type A Drums
9. TIH Overpack Drums
10. Seamless Drums
11. Lever Lock Closure Drums
12. UN Rating

ii. Other Equipment

1. Hand Trucks & Push Carts
2. Drum Dollies
3. Drum Cradles
4. Drum Jacks
5. Drum Stacker
6. Vertical Drum Lifters
7. Hydraulic Drum Dumpers
8. Forklifts
9. Thumbs & Grapples
10. Front-End Loader
11. Roller Conveyor

e) Safe Work Practices

i. Spill Containment
ii. Communication
iii. Vehicle Safety
iv. PPE
v. Overpacks
vi. Pallets
vii. Containment Berms
viii. Ergonomics
ix. Awkward Postures
x. Shoulder Rolls
xi. Back Stretches
xii. Quadricep Stretches
xiii. Hamstring Stretches

xiv. Lifting
xv. Feet
xvi. Legs
xvii. Hands
xviii. Elbows
xix. Back
xx. Pushing & Pulling

f) Handling Drums
i. Unidentified Drums
ii. Radioactive Waste
iii. Explosive or Shock-Sensitive
iv. Bulging Drums
v. Laboratory Packs
vi. Deteriorated or Leaking Drums
vii. Buried Drums
viii. Environmental Practices

g) Opening Drums
i. Distance
ii. Ongoing Monitoring
iii. Correct Tools
iv. Reseal the Drum
v. Laboratory Packs

h) Sampling & Characterization
i. Manual Sampling
ii. Sampling Characterization
iii. Contaminants of Concern

i) Staging & Bulking
i. Drum Staging Areas
ii. Initial Staging Area
iii. Opening Area
iv. Sampling Area
v. Second Staging Area
vi. Bulking Area
vii. Bulking
viii. Tank Trailers

j) Shipping
i. Traffic Control
ii. Driver Safety

iii. Loading Drums
iv. Decontamination
v. Identification
vi. Packaging
vii. Group I
viii. Group II
ix. Group III
x. Types of Packaging
xi. Single Packaging
xii. Composite Packaging
xiii. Inner & Outer Packaging
xiv. Combination Packaging
xv. Limited Quantities
xvi. Exemption Packaging
xvii. Packaging Responsibilities
xviii. Labeling & Placards
xix. Marking
xx. Shipping Papers
xxi. During Transport
xxii. Incident Reporting
xxiii. Telephone Incident Report

k) Special Case Problems
i. Tanks & Vaults
ii. Vacuum Trucks
iii. Compressed Gas Cylinders
iv. Valves
v. Opening Cylinders
vi. Cylinder Safety Devices
vii. Pressure Relief Valves
viii. Rupture Discs
ix. Fusible Plugs
x. Ponds & Lagoons
xi. Aerobic Ponds
xii. Anaerobic Ponds
xiii. Facultative Ponds
xiv. Conclusion

12) Excavation
a) Standards

b) Competent Person
c) Soil Classification
    i. Solids
    ii. Gases
    iii. Liquids
    iv. Soil Cohesiveness
    v. Stable Rock
    vi. Type A
    vii. Type B
    viii. Type C
    ix. Soil Testing
    x. Test Methods
    xi. Ribbon Test
    xii. Dry Strength Test
    xiii. Thump Penetration Test
    xiv. Penetrometer
    xv. Soil Mechanics
    xvi. Soft Zone
    xvii. Sloughing
    xviii. Soft Pockets
    xix. Shearing
    xx. Rotational Failure
    xxi. Vertical Pressure
    xxii. Lateral Pressure
    xxiii. Tension Cracks
    xxiv. Sliding
    xxv. Toppling
    xxvi. Subsidence & Bulging
    xxvii. Heaving or Squeezing
    xxviii. Boiling
    xxix. Trench Failure
    xxx. Trench Failure: Stage One
    xxxi. Trench Failure: Stage Two
    xxxii. Trench Failure: Stage Three
    xxxiii. Trench Failure: Stage Four
    xxxiv. Trench Precautions
    xxxv. Water Removal
    xxxvi. Wellpoints

xxxvii. Direct Pumping
xxxviii. Soil Weight

d) Protective Systems
   i. Protective Systems
   ii. Trench Shoring
   iii. Timber Shoring
   iv. Aluminum Hydraulic Shoring
   v. Whaler Systems
   vi. Pre-Installation Inspection
   vii. Shoring Installation
   viii. Vertical Aluminum Installation
   ix. Shore Removal
   x. Shields
   xi. Shield Inspection
   xii. Rigging Gear
   xiii. Machine Inspection
   xiv. Lift Capacity
   xv. Lift Capacity of a Backhoe
   xvi. Sample Lift Capacity Charts
   xvii. Lift Capacity of an Excavator
   xviii. Shield Installation
   xix. Sloping & Benching
   xx. Trench Access, Egress

e) Atmospheric Conditions
   i. Hazardous Atmospheres
   ii. Control Methods

f) Common Hazards
   i. Common Hazards
   ii. Cave-In
   iii. Electrocution
   iv. Struck-by
   v. No Access
   vi. Traffic Control
   vii. Distractions
   viii. Conclusion

13) Lockout/Tagout
   a) Standards
   b) General

i. Energy-Isolating Devices
ii. LOTO Exceptions
iii. Unplugging Equipment
iv. Hot Tap Operations
v. Minor Tool Changes

c) Equipment
i. Durability
ii. Substantial
iii. Identifiable
iv. Standardized
v. Types of LOTO Devices
vi. Circuit Breaker Lockout
vii. Valve Lockout
viii. Plug Lockout
ix. Pneumatic Hose Lockout
x. Wall Switch Lockout
xi. Group Lock Boxes
xii. Hasp Lockouts

d) Safe Operations
i. Energy Types
ii. Electrical
iii. Mechanical
iv. Hydraulic
v. Pneumatic
vi. Chemical
vii. Thermal
viii. Energy Control Program
1. Employee Training
2. Authorized Employees
3. Affected Employees
4. Other Employees
5. Refresher Training
6. Periodic Inspections
7. Energy Control Procedures
8. Lockout/Tagout Process
9. Shutdown
10. Notification of Employees
11. Isolation

12. Device Application
13. Verification of Isolation
14. Two of More Workers
15. Shift Change
16. Machine Restart

e) Hazards
   i. Electrocution
   ii. Burns
   iii. Crushing
   iv. Amputation
   v. Distractions
   vi. Conclusion

14) Confined Spaces
   a) Characteristics of a Confined Space
   b) Standards
   c) Two Options for Entry
   d) Non-Permit Required Confined Space
   e) Permit-Required Confined Space
   f) Hazardous Atmosphere
   g) Testing
      i. Oxygen
      ii. When to Test
      iii. How to Test
      iv. Oxygen
      v. Gas, Vapors, Dust
      vi. Toxic Contaminants
      vii. Sampling
      viii. Sample Draw
      ix. Diffusion
      x. Monitors
      xi. Testing Equipment
      xii. Measuring Limits
      xiii. Operational Limits
      xiv. Technical Considerations
      xv. RF Protection
      xvi. Response Time
      xvii. Sensitivity
      xviii. Reading Drifts

xix. Accuracy & Precision
xx. Selectivity or Specificity

h) Safe Operations
   i. Know Your Duties
      1. Assigned Duties
      2. Entrant
      3. Attendant
      4. Entry Supervisor
      5. Others
      6. Employer
   ii. Know Your Worksite
      1. Signage
      2. Protecting the Entrance
      3. Permit Program
      4. Permits
      5. Other Permits
   iii. Hazards
      1. Oxygen Deficiency
      2. Consumption
      3. Displacement
      4. Reaction
      5. Oxygen Enrichment
      6. Toxic Atmosphere
      7. Asphyxiants
      8. Irritants
      9. Flammable or Explosive Atmospheres
      10. Distractions
      11. Fatigue
      12. Heat & Cold
      13. Emotional & Physical Health
   iv. Rescue
      1. Evaluate
      2. Initial Evaluation
      3. Response Time
      4. Communication
      5. Assessment, Preparation, & Rescue
      6. Performance Evaluation
      7. Training

8. Rescue by Non-Entry
9. Rescue by Trained Employees
10. Rescue by Others
11. Rescue Roles

15) Personal Protective Equipment

a) Standards
b) Controls
c) PPE Program
   i. PPE Training
   ii. Hazard Assessment
   iii. Electrical
   iv. Impact & Compression
   v. Fires & Burns
   vi. Chemicals
   vii. Harmful Dusts
   viii. Light Radiation
   ix. Falling Objects
   x. Lacerations & Punctures
   xi. Biological Hazards
   xii. Periodic Hazard Inspections
   xiii. Selecting PPE
   xiv. PPE Maintenance
   xv. Program Evaluation
d) PPE Classifications
   i. Respirators
      1. Air-Purifying Respirator
      2. Mechanical Filter Respirators
      3. Chemical Cartridge Respirators
      4. Powered Air-Purifying Respirators
      5. Mechanical Filter Respirators
      6. Air-Line Respirators
      7. Self-Contained Breathing Apparatus (SCBA)
      8. Inspection
      9. Cleaning & Storage
      10. Training
      11. Medical Evaluation
      12. Fit Testing
   ii. Head Protection

1. Hard Hats
2. Hard Hat Maintenance
3. Eye & Face Protection
4. Glasses, Goggles, & Face Shields
5. Eye Glasses & Contact Lenses
6. Hearing Protection

iii. Body Protection
1. Overalls & Coveralls
2. Hooded Chemical-Resistant Suits
3. Fully-Encapsulated Suits

iv. Hand Protection
1. Chemical-Resistant Gloves
2. Butyl & Viton
3. Neoprene
4. PVC
5. PVA
6. Nitrile
7. Proper Care of Protective gloves
8. Other Gloves

v. Foot Protection
1. PPE Cleaning & Storage

e) PPE Levels
i. Levels of PPE
ii. Level A
iii. Level B
iv. Level C
v. Level D
vi. Donning PPE

f) Hazards
i. Routes of Exposure
ii. Inhalation
iii. Cutaneous
iv. Ingestion
v. Injection
vi. Permeation
vii. Degradation
viii. Breakthrough Time
ix. Heat & Cold Stress

x. Air Supply Consumption
xi. Additional PPE
xii. Communication
xiii. Psychological Hazards
xiv. Work Mission Duration
xv. Air Supply Consumption
xvi. Work Rate
xvii. Fitness
xviii. Body Size
xix. Breathing Patterns
xx. Reverse Skip Breathing
xxi. Tactical Breathing
xxii. Reilly Breathing Technique
xxiii. Temperature
xxiv. Cooling Supplies
xxv. Ice Vests
xxvi. Hard Hat Inserts
xxvii. Special Conditions
xxviii. Upgrading/Downgrading PPE

g) Donning PPE
i. Donning Level A
ii. Donning Level B
iii. Donning Level C

16) Decontamination

a) Factors of Contamination
i. Exposure Time
ii. Concentration
iii. Temperature
iv. Reactivity
v. Physical State of Waste
vi. Size of Molecule & Pore Size

b) Contamination Prevention
i. Work Practice Controls
ii. Remote Sampling
iii. Equipment Protection
iv. Encasement
v. Disposables

c) Decontamination Plan

i. Decontamination
ii. Decontamination Plan
iii. Decontamination Equipment
iv. Decontaminating Personnel & PPE
v. Heavy Equipment Decontamination
vi. Decontamination Stations
vii. Disposal of Clothing & Equipment
viii. Disposal
ix. Disposal Considerations
x. Unknown Substances
xi. Laundering
xii. Showers & Changing Rooms

d) Decontamination Methods
i. Physical Removal
ii. Loose Contaminants
iii. Adhering Contaminants
iv. Volatile Liquids
v. Chemical Removal
vi. Dissolving
vii. Using Water as a Solvent
viii. Dilute Acids and Bases as Solvents
ix. Solidification
x. Absorption and Adsorption
xi. Surfactants
xii. Inactivation
xiii. Sterilization

17) Decontamination Procedures
a) Aviation Industry
b) Airline SOPs
c) Checklists
d) Decontamination Procedures
e) Standard Operating Procedures
f) Considerations Before Donning
g) Stress Evaluation
h) Donning
i) PPE Check
j) Decontamination Lines
k) Decontamination Line Layout

l) Exclusion Zone Stations
    i. Station 1: Segregated Equipment Drop
    ii. Station 2: Boot Cover and Glove Wash
    iii. Station 3: Boot Cover & Glove Rinse
    iv. Station 4: Tape Removal
    v. Station 5: Boot Cover Removal
    vi. Station 6: Outer Glove Removal
m) Contamination Reduction Zone Stations
    i. Station 7: Suit and Boot Wash
    ii. Station 8: Suit and Boot Rinse
    iii. Station 9: Tank Change and Redress
    iv. Station 10: Safety Boot Removal
    v. Station 11: Suit and Hart Hat Removal
    vi. Station 12: SCBA Backpack Removal
    vii. Station 13: Inner Glove Wash
    viii. Station 14: Inner Glove Rinse
    ix. Station 15: Facepiece Removal
    x. Station 16: Inner Glove Removal
    xi. Station 17: Inner Clothing Removal
n) Support Zone Stations
    i. Station 18: Field Wash
    ii. Station 19: Redress
o) Minimum Decontamination Layout
p) Decontaminating Equipment
q) Effectiveness Testing
r) Visual Observation
s) Natural Light
t) Ultraviolet Light
u) Wipe Sampling
v) Cleaning Solution Analysis
w) Offsite Permeation Testing
x) Training
y) Communication Plan
z) Emergency Decontamination

18) Medical Surveillance
a) Standards
b) Developing a Program
    i. Hazard Recognition

ii. Other Hazards
iii. Establishing Protocols
iv. Addressing Specific Needs
v. Maintaining Daily Details
vi. Planning Meetings
vii. Checklists
viii. Establishing Work Environment
ix. Participation
x. Management Participation
xi. Achievement
xii. Medical Leadership
xiii. Safety Advisor
xiv. Training
xv. Comprehension
xvi. Language Interpreters
xvii. Discussions & Questions
xviii. Visual Training Techniques
xix. Equipment Use
xx. Following Signs
xxi. First Aid Training
xxii. Follow-Up Training
xxiii. Role Identification
xxiv. Predetermined Responses
xxv. Non-job Illnesses
xxvi. Communication with Medical Professionals
xxvii. Cooperation with Local Hospital and Medical Specialists
xxviii. Maps & Directions
xxix. GPS Tracking
xxx. Recommendations

c) Pre-Employment Medical Exam
i. Pre-Employment Screening
ii. Medical & Occupational History
iii. Past Medical Records
iv. Job-Related Records
v. Communication
vi. Communication Hacks
vii. Physical Exam
viii. Setting a Baseline

ix. Establish Physical Capacity
x. Ability to Work with PPE
xi. Psychological Complications
xii. Pulmonary Functions Tests
xiii. Audiometric Tests
xiv. Vision Tests
xv. Echocardiogram (EKG)
xvi. Chest X-Ray
xvii. Follow-Up Irregularities
xviii. Don't Sweat Tests
xix. Physician's Written Opinion

d) Periodic Medical Exams
i. Frequency
ii. Full vs. Partial Exams
iii. Termination Exam
iv. Temperature Exposure
v. Hydration
vi. Psychological Tests or Consultations
vii. Psychological Complications
viii. Therapy & Consultation
ix. Psychological Trauma

e) Medical Records
i. Work-Related Incidents
ii. Accident Reports
iii. Medical Complaints
iv. Recordable Injuries
v. Non-Recordable First Aid
vi. Forms
vii. Injury Discrimination
viii. Providing Records to Government Officials
ix. Organization
x. Annual Summary
xi. Keeping Records for Multiple Agencies
xii. Advance Directives
xiii. Living Will
xiv. Durable Power for Attorney Healthcare
xv. Mental Health Directive
xvi. Latency Period

xvii. Privacy & Safety Debate
xviii. Privacy Rule
xix. Security Rule
xx. PHI
xxi. What You Can Do
xxii. Insurance
xxiii. OSHA Regulations
xxiv. Standards
xxv. State Plans

f) Program Review
   i. Evaluations
   ii. Evaluate and Reassess
   iii. Accident Investigations
   iv. Investigation Process
   v. Study Tendencies
   vi. Implementing Updates
   vii. Conclusion

19) Emergency Procedures
   a) Case Study
   b) Standards
   c) Pre-Emergency Planning
      i. Pre-Emergency Planning
      ii. Site Health Safety
      iii. Emergency Response Plan
      iv. ERP Content Requirements
   d) Personnel
      i. Personal Roles
      ii. Training
      iii. Chain of Command
      iv. Senior Official
      v. Incident Commander
      vi. Hazardous Materials Specialist
      vii. Hazardous Materials Technician
      viii. First Responder: Operations Level
      ix. First Responder: Awareness Level
      x. Chain-of-Command Training
      xi. Offsite Responders
      xii. Federal Response Organizations

- xiii. Onsite Civilians
- xiv. Communications

e) Worksite Safety
- i. Emergency Recognition & Prevention
- ii. Site Security & Control
- iii. Site Mapping
- iv. Work Zones
- v. Exclusion Zones
- vi. Contamination Reduction Zone
- vii. Support Zone
- viii. Safe Distances
- ix. Refuges
- x. Evacuation Routes
- xi. Personal Locator Systems
- xii. Passive Personal Locator System
- xiii. Active Personal Locator System
- xiv. Additional Security Measures

f) Emergency Procedures Part 1
- i. Initiating Emergency Response
- ii. Assessing the Emergency
- iii. Emergency Evacuation
- iv. Public Evacuation
- v. Emergency Transportation
- vi. Victim Recovery Procedures
- vii. Emergency Decontamination
- viii. Emergency First Aid
- ix. Drum & Container Handling
- x. Pressurized Drums or Containers
- xi. Opening Drums or Containers

g) Emergency Procedures Part 2
- i. Spill Response
- ii. Spill Control
- iii. Spill Elimination
- iv. Overpack Drum
- v. Absorption Materials
- vi. Bonding Agents
- vii. Neutralizing Materials
- viii. Vapor Control

TRAINING OUTLINE

ix. Diking & Damming
x. Fire Control
xi. Portable Fire Extinguishers
xii. Selecting a Fire Extinguisher
xiii. Class A
xiv. Class B
xv. Class C
xvi. Class D
xvii. Extinguisher Agents
xviii. UL Ratings
xix. Extinguisher Access
xx. Fire Extinguisher Maintenance
xxi. Monthly Inspection
xxii. Yearly Inspection
xxiii. Hydrostatic Test
xxiv. Six-Year Inspection
xxv. Replacing Extinguishers
xxvi. Operating an Extinguisher
xxvii. Assess the Situation
xxviii. Extinguisher Use
xxix. Pull
xxx. Aim
xxxi. Squeeze
xxxii. Sweep
xxxiii. Post Use
xxxiv. Fire Suppression Systems
xxxv. Automatic Sprinkler Systems
xxxvi. Fire Pumps
xxxvii. Fixed Extinguishing Rooms
xxxviii. Dry-Chemical System
xxxix. Wet-Chemical System
xl. Gaseous Agent System
xli. Fire Department Connections
xlii. Fire Hydrants
xliii. Fire Access Roads
xliv. Cleanup
xlv. Response Follow-Up
xlvi. Documentation

xlvii. Providing Records to Government Officials
xlviii. Conclusion

20) Conclusion
a) Practical Review
b) Congratulations