

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
 - i) Who is HAZWOPER for?
 - k) Training Outline
 - I) Regulations & Overview
 - m) Site Characterization
 - n) Drum Handling
 - o) Confined Spaces
 - p) Hazard Recognition
 - g) 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

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- 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) Site Monitoring
 - a) Standards
 - b) Monitoring Devices
 - i. Types of Air Sampling Devices
 - ii. Direct Reading Instruments
 - iii. On-Person or Clip-On Devices
 - iv. Four-Gas Monitors
 - v. Single-Gas Monitors
 - vi. Handheld Air Monitors
 - vii. Flame Ionization Detector
 - viii. Portable Infrared Spectrophotometer
 - ix. Photoionization Detector
 - x. Oxygen Meter

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- xi. Combustible Gas Indicator
- xii. Radiation Detectors
- xiii. Colorimetric Indicator Tubes
- xiv. Indirect Reading Instruments
- xv. Active Sampling Devices
- xvi. Passive Sampling Devices

c) Device Usage

- i. Direct Reading Instruments
- ii. On-Person Devices
- iii. Handheld Devices
- iv. Colorimetric Tubes
- v. Indirect Reading Instruments
- vi. Stationary Sampling Devices
- vii. Personal Sampling Devices
- viii. Passive Sampling Devices

d) Calibration

- i. On-Person & Handheld Monitors
- ii. Active Sampling Pumps
- iii. Sampling Handling
- iv. Laboratories
- v. Sample Collecting
- vi. Direct Reading Instruments
- vii. Active Sampling
- viii. Passive Sampling
- ix. Documenting
- x. Transport

e) Air Monitoring

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

f) Monitoring Variables

- i. Temperature
- ii. Windspeed
- iii. Rainfall
- iv. Moisture

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- v. Vapor Emissions
- vi. Work Activities

g) General Site Monitoring

- i. Types of Samples
- ii. Spill 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

5) 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) Electrocution

- i. Standards
- ii. Shocked vs. Electrocuted
- iii. Electrocution Factors
- iv. Sources of Electrocution
- v. Touch & Step Voltage

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- vi. Contacting Powerlines
- vii. Contacting Other Energized Objects
- viii. Using Damaged Cords

d) Controls

- i. The Hierarchy of Controls
- ii. Elimination
- iii. Substitution
- iv. Hand & Power Tools
- v. Ladders
- vi. Extension Cords
- vii. Engineering Controls
- viii. Flagged Warning Lines
- ix. Other Warning Devices
- x. Grounding
- xi. Isolating & Guarding
- xii. Isolation
- xiii. GFCI Receptacles
- xiv. GFCI Breakers
- xv. Lockout/Tagout Devices
- xvi. Administrative Controls
- xvii. Training
- xviii. AEGCP
- xix. Safe Distances
- xx. Overhead Powerlines
- xxi. Underground Lines
- xxii. Electrical Equipment
- xxiii. Safe Equipment Usage
- xxiv. Qualified Persons
- xxv. LOTO
- xxvi. Personal Protective Equipment

e) Safety Hazards

- i. Carcinogens
- ii. Ionizing Radiation
- iii. Air Quality
- iv. Oxygen Deficiency

f) Walking & Working Surfaces

- i. Standards
- ii. Outdoor Surfaces

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- iii. Sand
- iv. Dirt
- v. Mud
- vi. Gravel
- vii. Grass
- viii. Foliage
 - ix. Snow
 - x. Ice
 - xi. Roofs
- xii. Scaffolding
- xiii. Ladders
- xiv. Indoor Surfaces
- xv. Floor Surfaces
- xvi. Grating
- xvii. Stairs
- xviii. Metal Surfaces
- xix. Preventative Measures
- xx. Slip-Resistant Footwear
- xxi. Housekeeping
- xxii. Lighting
- xxiii. Floor Markings
- xxiv. Heights

g) Heat & Cold

- i. Standards
- ii. Heat Illness
- iii. Symptoms
- iv. Sunburn
- v. Heat Rash
- vi. Dehydration
- vii. Heat Exhaustion
- viii. Heat Syncope
- ix. Heat Cramps
- x. Heat Stroke
- xi. First Aid
- xii. Call 9-1-1
- xiii. Find a Cool Location
- xiv. Loosen or Remove Clothing
- xv. Cool Off



- xvi. Increase Fluid Intake
- xvii. Take Time to Rest
- xviii. Take Temperature
- xix. Prevention
- xx. PPE
- xxi. Cotton
- xxii. Rayon
- xxiii. Linen
- xxiv. Blends
- xxv. Headwear
- xxvi. Shirts
- xxvii. Pants
- xxviii. Socks
- xxix. Shoes
- xxx. Cold Illness
- xxxi. Clear vs. Cloudy Skies
- xxxii. Snow
- xxxiii. Windchill
- xxxiv. Hypothermia
- xxxv. Frostbite
- xxxvi. Trench foot
- xxxvii. Dehydration
- xxxviii. Sunburn
- xxxix. First Aid
 - xl. Call 9-1-1
 - xli. Find a Dry, Warm Location
 - xlii. Remove & Replace Wet Clothing
 - xliii. Warm Up
 - xliv. Take Time to Rest
 - xlv. Prevention
 - xlvi. PPE
- xlvii. Fleece
- xlviii. Wool
- xlix. Cotton
 - I. Headwear
 - li. Shirts & Jackets
 - lii. Pants
- liii. Socks

- liv. Footwear
- lv. Gloves
- h) Struck By
 - i. Flying Objects
 - ii. Falling Objects
 - iii. Swinging Objects
 - iv. Rolling Objects
- i) Safe Operations
 - i. Training
 - ii. Pre-Shift Inspections
 - iii. For Pedestrians
 - iv. Hand & Power Tools
 - v. Misfire
 - vi. Guards
 - vii. Toe Boards
 - viii. Dropping & Throwing
- j) Heavy Equipment
 - i. Cranes
 - ii. Barriers
 - iii. Lifting
 - iv. Off-Centered Loads
 - v. Tag Lines
 - vi. Material Storage
 - vii. Masonry
 - viii. PPE
 - ix. Hard Hat
 - x. Type & Classification
 - xi. Fit
 - xii. Maintenance & Storage
 - xiii. Eye Protection
- k) Caught-In, -Between
 - i. Caught-In
 - ii. Clothing
 - iii. Repairs
 - iv. Machine Guarding
 - v. Caught-Between
 - vi. Materials Handling
 - vii. Safe Operations

- viii. Planning
 - ix. Barricades
 - x. Proper Materials Handling
 - xi. Proper Materials Handling by Hand
- xii. Trenches & Excavation
- xiii. Case Studies
- I) Biological Hazards
 - i. Standards
- m) Transmission
 - i. Blood-to-Blood Contact
 - ii. Blood-to-Mucous-Membrane Contact
 - iii. Ingestion of Contaminated Material
 - iv. Other Transmission Methods
- n) Blood-Borne Diseases
 - i. Hepatitis
 - ii. HBV
 - iii. HCV
 - iv. HIV & AIDS
 - v. Other Diseases
 - vi. Malaria
 - vii. Syphilis
 - viii. Brucellosis
- o) Exposure Control Plan: Precautions
 - i. ECP Revision & Updates
 - ii. Exposure Determinations
 - iii. Methods of Compliance
 - iv. Work Practice Controls
 - v. Handwashing
 - vi. Needle & Sharps Handling
 - vii. Contaminated Sharps Disposal
 - viii. Housekeeping
 - ix. Workplace Restrictions
 - x. Engineering Controls
 - xi. Personal Protective Equipment
 - xii. Donning & Doffing PPE
 - xiii. Protective Body Clothing
 - xiv. Masks & Face Shields
 - xv. Eye Protection

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- xvi. Gloves
- xvii. First Aid PPE
- xviii. Other PPE
- p) Hazard Communication
 - i. Warning Labels
 - ii. Signs
 - iii. Training
 - iv. HBV Vaccinations
- q) Exposure Control Plan: Post-Exposure
 - i. Exposure Incident
 - ii. Post-Exposure Procedures
 - iii. Post-Incident Washing
 - iv. First Aid
 - v. Reporting to Your Employer
- r) Post-Exposure Evaluation & Follow Up
 - i. Incident Documentation
 - ii. Blood Testing
 - iii. Post-Exposure Treatment
- s) Recordkeeping
 - i. Medical Records
 - ii. Sharps Injury Logs
 - iii. ECP Evaluation: Post-Exposure
 - iv. Reporting Records
- t) Chemical Identification
 - i. Safety Data Sheets (SDS's)
 - ii. Labels
 - iii. Six Elements
 - iv. Manufacturer Information
 - v. Product Identifier
 - vi. Signal Words
 - vii. Hazard Statement
 - viii. Precautionary Statements
 - ix. Pictograms
 - x. National Fire Protection Agency
 - xi. HMIS
 - xii. DOT Classification
 - xiii. Other Identification Methods
 - xiv. Haste Waste Identification Process

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- xv. Hazardous Waste Site Characteristics
- xvi. Ignitibility
- xvii. Corrosivity
- xviii. Reactivity
 - xix. Toxicity
 - xx. Training

u) Other Considerations

- i. Hearing
- ii. Ergonomics
- iii. Environmental Hazards
- iv. Other Hazards

6) 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) Methods of Exposure

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

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- 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

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- 1. Non-lonizing 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

7) Hazard Communication

- a) Standards
- b) Safety Data Sheets
 - i. SDS Content
 - ii. Section 1: Identification
 - iii. Section 2: Hazard Information
 - iv. Section 3: Composition
 - v. Section 4: First Aid
 - vi. Section 5: Firefighting

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TRAINING OUTLINE

- vii. Section 6: Accidental Release
- viii. Section 7: Handling & Storage
- ix. Section 8: Exposure Controls/PPE
- x. Section 9: Physical & Chemical Properties
- xi. Section 10: Stability & Reactivity
- xii. Section 11: Toxicological Information
- xiii. Section 12: Ecological Information
- xiv. Section 13: Disposal Considerations
- xv. Section 14: Transportation
- xvi. Section 15: Regulatory Information
- xvii. Section 16: Other Information

c) 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 & Crossbones
- xvi. Environment

d) Department of Transportation

- i. Class 1: Explosives
 - 1. Mass Explosive Hazard
 - 2. Projection Hazard
 - 3. Mass Fire Hazard
 - 4. Minor Explosive Hazard
 - 5. Blasting Agents
 - 6. Extremely Insensitive Explosives
- ii. Class 2: Gases
 - 1. Flammable Gas

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TRAINING OUTLINE

- 2. Non-Flammable Gas
- 3. Division 2.2: Oxygen
- 4. Toxic Gas
- 5. Flammable Liquids
- 6. Combustible Liquids
- 7. Flammable Solids
- 8. Spontaneously Combustible Material
- 9. Dangerous When Wet
- 10.0xidizers
- 11. Organic Peroxide
- 12. Poisonous Substances
- 13.Infectious Substances
- 14. Radioactive Materials
- 15. Corrosive Substances
- 16. Miscellaneous Dangerous Goods
- iii. National Fire Protection Agency
 - 1. Onsite Labeling

e) Operations

- i. Communication Program
- ii. HazCom Standard
- iii. Roles & Responsibilities
- iv. Written Plan
- v. Chemicals Present
- vi. Storage
- vii. Labeling
- viii. Safety Data Sheets
- ix. Training
- x. Evaluate & Reassess
- xi. Emergency Response
- xii. Signage
- xiii. PPE
- xiv. Gloves
- xv. Eve Protection
- xvi. Footwear
- xvii. Respirators
- xviii. Air Purifying Respirators
- xix. Air-Supplying Respirators
- xx. Cleaning & Storage

- xxi. Training
- xxii. Medical Evaluation
- xxiii. Fit Test
- xxiv. User Seal Check
- xxv. Case Studies
- 8) 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



TRAINING OUTLINE

10.Front-End Loader 11.Roller Conveyor

e) Forklifts

- i. Types of Forklifts
- ii. Standards
- iii. Inspections
 - 1. Interior
 - 2. Exterior
- iv. Safe Operations
- v. Know Your Forklift
- vi. Operator's Manual
- vii. Mounting, Dismounting
- viii. Safe Driving
- ix. Load Handling
- x. Transporting Personnel
- xi. Know Your Worksite
- xii. Pedestrians
- xiii. Surroundings
- xiv. Ramps & Trailers
- xv. Common Hazards
 - 1. Struck by Forklift
 - 2. Struck by Falling Load
 - 3. Tip Over
 - 4. Elevating Personnel
 - 5. Run Off Dock
 - 6. Maintenance Related

f) Overhead Cranes

- i. Types of Overhead Cranes
- ii. Standards
- iii. Inspections
- iv. Rigging Considerations
 - 1. Typical Rigging Hardware
 - 2. Synthetic Slings
 - 3. Wire Rope Slings
 - 4. Chain Slings
 - 5. Lifting Hardware
 - 6. Basic Rigging Practices
 - 7. Load Weight

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TRAINING OUTLINE

- 8. Load's Center of Gravity
- 9. Sling Angles
- 10.Basic Hitches
- v. Safe Operations
 - 1. Know Your Crane
 - 2. Planning
 - 3. Inspections & Manual
 - 4. Personal Protective Equipment
 - 5. Operations: Cab & Control Pendant
 - 6. Load Handling
 - 7. Hoist Brakes
 - 8. Know Your Worksite
 - 9. Pedestrians
 - 10.Traffic & Barricades
 - 11. Hoisting Loads
 - 12.Communication
 - 13. Critical Lifts
 - 14.Critical Lift Plan
 - 15.Pre-Lift Meeting
 - 16.Conclusion

g) 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

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- xviii. Elbows
 - xix. Back
 - xx. Pushing & Pulling

h) 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

i) Opening Drums

- i. Distance
- ii. Ongoing Monitoring
- iii. Correct Tools
- iv. Reseal the Drum
- v. Laboratory Packs

j) Sampling & Characterization

- i. Manual Sampling
- ii. Sampling Characterization
- iii. Contaminants of Concern

k) 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

I) Shipping

- i. Traffic Control
- ii. Driver Safety
- iii. Loading Drums
- iv. Decontamination
- v. Identification
- vi. Packaging

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TRAINING OUTLINE

- 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

m) 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

9) Illumination, Sanitation, & New Technology

- a) Standards
- b) Illumination
 - i. What is Light?
 - ii. How Does it Affect You?
 - iii. Worker Visibility

TRAINING OUTLINE

- 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

10) Excavation

- a) Standards
- b) Competent Person
- c) Soil Classification
 - i. Soil Identification
 - ii. Soil Composition
 - iii. Solids
 - iv. Liquids
 - v. Gases
 - vi. Soil Cohesiveness
 - vii. Unconfined Compressive Strength
 - viii. Cemented Soil
 - ix. Soil Classification
 - x. Stable Rock

TRAINING OUTLINE

- xi. Type A Soils
- xii. Type B Soils
- xiii. Type C Soils
- xiv. Testing the Soil
- xv. Visual Tests
- xvi. Manual Test
- xvii. Plasticity
- xviii. Dry Strength
- xix. Thumb Penetration
- xx. Drying Test
- xxi. Other Strength Tests
- xxii. Penetrometer

d) Protective Systems

- i. Protective Systems
- ii. Trench Shoring
- iii. Timber Shoring
- iv. Aluminum Hydraulic Shoring
- v. Whaler Systems
- vi. Advantages of Hydraulic Shoring
- vii. Pre-Installation Inspection
- viii. Shoring Installation
- ix. Shielding
- x. Shield Inspection
- xi. Machinery Inspection
- xii. Shield Installation
- xiii. Additional Safety Practices
- xiv. Sloping & Benching
- xv. Surcharge Loads

e) Safe Operations

- i. Soil Mechanics
- ii. Soil Weight
- iii. What Weakens a Trench?
- iv. Vertical Pressure
- v. Lateral Pressure
- vi. Soft Zone
- vii. Soft Pockets
- viii. Sloughing
- ix. Shearing

- x. Rotational Failure
- xi. Tension Cracks
- xii. Sliding
- xiii. Toppling
- xiv. Subsidence & Bulging
- xv. Heaving or Squeezing
- xvi. Boiling
- xvii. Corner Sloughing
- xviii. Trench Failure
 - 1. Stage One
 - 2. Stage Two
 - 3. Stage Three
 - 4. Stage Four
- xix. Other Considerations
- xx. Inspections
- xxi. Underground Utilities
- xxii. Road Work
- xxiii. Access & Egress
- xxiv. Structural Ramps
- xxv. Stability of Adjacent Structures
- xxvi. Falling Loads
- xxvii. Pedestrians
- xxviii. Weight Considerations
- xxix. Weather
- xxx. Water Accumulation
- xxxi. Water Removal
- xxxii. Well Points
- xxxiii. Direct Pumping
- xxxiv. Hazardous Atmospheres
- xxxv. Control Methods
- xxxvi. Emergency Rescue Equipment
- f) Common Hazards
 - i. Case Studies
 - ii. Other Accident Causes
 - iii. Conclusion
- 11) 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) Equipment
 - i. Personal Protective Equipment
 - ii. Ventilators
 - iii. Respirators
 - iv. Inspection
 - v. Cleaning & Storage
 - vi. Training
 - vii. Medical Evaluation
 - viii. Fit Test
 - ix. User Seal Check
 - x. Safe Ingress & Egress
 - xi. Body Harness
 - xii. Inspection
 - xiii. Lanyards
 - xiv. Tripods
 - xv. Frame
 - xvi. Retrieval Systems
 - xvii. Self-Retracting Lifeline
 - xviii. Setup
 - xix. Ladders
 - xx. Lighting
 - xxi. Fire Extinguisher
 - xxii. Other
- h) 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

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- 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
- i) 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

TRAINING OUTLINE

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

12) Fall Protection

- a) Standards
- b) General Knowledge
- c) Fall Protection Categories
 - i. Fall Prevention
 - ii. Fall Restraint
 - iii. Fall Arrest
 - iv. Positioning System
 - v. Passive & Active Systems
 - vi. Max. Arresting Forces & Safety Factors
 - vii. Safety Factor
- d) Equipment
 - i. Personal Fall Protection Systems
 - ii. Body Wear
 - iii. Full-Body Harness
 - iv. Shoulder, Chest, & Leg Straps
 - v. Sub-Pelvic Strap
 - vi. Dorsal D-Ring
 - vii. Other Components
 - viii. Harness Inspection
 - ix. Other Hardware
 - x. Tags & Labels
 - xi. Body Belts
 - xii. Body Belt Inspection
 - xiii. Other Body Wear
 - xiv. Anchorages

- xv. Inspecting Anchorages
- xvi. Lifelines
- xvii. Inspecting Lifelines
- xviii. Prohibited Anchorages
- xix. Connective Devices
- xx. Snap Hooks
- xxi. Snap Hook Safety Latch
- xxii. Lanyards
- xxiii. Shock-Absorbing Lanyards
- xxiv. Internal Stretch Lanyards
- xxv. Pack Type Lanyards
- xxvi. Non-Shock-Absorbing Lanyards
- xxvii. Inspecting Lanyards
- xxviii. Self-Retracting Lifeline
- xxix. Inspecting SRLs
- e) Fall Prevention Systems
 - i. Guardrails
 - ii. Toe Boards
 - iii. Rebar Caps
 - iv. Warning Lines
 - v. Safety Nets
- f) Safe Operations
 - i. Know Your Equipment
 - ii. Training
 - iii. Select the Correct PFPS
 - iv. Inspections
 - v. Donning Body Wear
 - vi. Using Connective Devices
 - vii. PFPS Storage
 - viii. Familiarity With Worksite
 - ix. Guardrails
 - x. Toe Boards
 - xi. Holes & Openings
 - xii. Warning Lines
 - xiii. Safety Monitoring Systems
 - xiv. Controlled Access Zones
 - xv. Free Fall
 - xvi. Fall Clearance Distance

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- xvii. Swing Fall
- g) Other Considerations
 - i. Scaffolds
 - ii. Aerial Lifts
 - iii. Ladders
 - iv. Confined Spaces
 - v. Excavations
 - vi. Steel Erection
 - vii. Rescue Plan
- h) Case Studies
- i) 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

TRAINING OUTLINE

- 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. LOTO Devices
 - ii. Verification
 - iii. Conclusion

14) Hazardous Locations

- a) Standards
- b) Lower Flammable Limit
- c) Upper Flammable Limit
- d) Contributing Factors of Classification
- e) Vapor Density
- f) Flash Point
- g) Combustible Dust
- h) Combustible Liquids
- i) Classifications
- i) Divisions
- k) Hazard Groups
 - i. Group A: Acetylene
 - ii. Group B
 - iii. Group C

TRAINING OUTLINE

- iv. Group D
- v. Group E
- vi. Group F
- vii. Group G
- I) Zone System
- m) Groups
- n) Documentation
- o) Conclusion

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
 - xvi. Selecting PPE
 - xvii. Do You Have the Right PPE?
 - xviii. Permeation
 - xix. Degradation
 - xx. Penetration
 - xxi. Durability
 - xxii. Breakthrough Time
 - xxiii. PPE Maintenance
- d) PPE Classifications
 - i. Respirators
 - 1. Air-Purifying Respirator

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- 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
- 13. Emergency Respirator Pack
- 14. Escape Mouth-Bit or Half Mask
- 15. Full Face Mask with Filter in a Sealed Bag
- 16.Smoked Escape Hood
- 17.0xygen Self-Rescuer
- 18.Sar/ESCBA with Escape Cylinder
- 19.SCBA
- 20.Training
- 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
 - 7. Single-Use Earplugs
 - 8. Pre-Formed or Molded Earplugs
 - 9. Earmuffs
- iii. Body Protection
 - 1. Overalls & Coveralls
 - 2. Hooded Chemical-Resistant Suits
 - 3. Fully-Encapsulated Suits
- iv. Hand Protection
 - 1. Cut Levels
 - 2. Puncture Resistance
 - 3. Abrasion & Tear Resistance
 - 4. Impact Protection

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- 5. Sizing Gloves
- 6. Other Properties
- 7. Grip
- 8. Dexterity
- 9. Comfort
- 10.Temperature
- 11. Glove types
- 12. Chemical-Resistant Gloves
- 13.Butyl & Viton
- 14. Neoprene
- 15.PVC
- 16.PVA
- 17.Nitrile
- 18. Proper Care of Protective gloves
- 19.0ther 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) Donning PPE
 - i. Donning Level A
 - ii. Donning Level B
 - iii. Donning Level C
- g) Safe Operations
 - i. Work Mission Duration
 - ii. Air Supply Consumption
 - iii. Work Rate
 - iv. Fitness
 - v. Body Size
 - vi. Breathing Patterns
 - vii. Reverse Skip Breathing
 - viii. Tactical Breathing
 - ix. Reilly Breathing Technique

- x. Temperature
- xi. Cooling Supplies
- xii. Ice Vests
- xiii. Hard Hat Inserts
- xiv. Additional PPE
- xv. Communication
- xvi. Special Conditions
- xvii. Upgrading/Downgrading PPE
- h) 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
- i) Decontamination
 - i. Factors of Contamination
 - ii. Exposure Time
 - iii. Concentration
 - iv. Temperature
 - v. Reactivity
 - vi. Physical State of Waste
 - vii. Size of Molecule & Pore Size
- i) Contamination Prevention
 - i. Work Practice Controls
 - ii. Remote Sampling
 - iii. Equipment Protection
 - iv. Encasement
 - v. Disposables
- k) Decontamination Plan
 - i. Decontamination

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TRAINING OUTLINE

- 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
- I) 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

16) 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
- Exclusion Zone Stations

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- 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) Levels of Decontamination Lines
- g) Level A Decontamination
- r) Level B Decontamination Lines
- s) Level C Decontamination Lines
- t) Decontaminating Equipment
- u) Effectiveness Testing
- v) Visual Observation
- w) Natural Light
- x) Ultraviolet Light
- y) Wipe Sampling
- z) Cleaning Solution Analysis
- aa) Offsite Permeation Testing
- bb)Training
- cc) Communication Plan
- dd) Emergency Decontamination
- ee) Conclusion

TRAINING OUTLINE

17) 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

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- 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. Stress Tests
- xix. Information for Your Physician
- xx. 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

TRAINING OUTLINE

- 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

18) Fire Prevention

- a) Standards
- b) General
 - i. Signage
 - ii. Hazard Communication
 - iii. Storage
 - iv. Chemicals
 - v. Compressed Gases
 - vi. Flammable Liquids
 - vii. Labeling Systems
 - viii. Fire Diamond
 - ix. GHS
 - x. DOT
 - xi. Other Hazards
- c) Equipment
 - i. Personal Protective Equipment

TRAINING OUTLINE

- ii. Fire Protective Systems
- iii. Automatic Sprinkler Systems
- iv. Standpipes
- v. Fire Pumps
- vi. Portable Fire Extinguishers
- vii. Fire alarms & Detection Systems
- viii. Smoke-Control Systems
- ix. Fire Department Connections
- x. Fire Hydrants
- xi. Fire access Roads
- xii. Interior Finishing & Other Materials
- d) Emergency Planning & Preparedness
 - i. Means of Egress
 - ii. Fire Prevention Plan
 - iii. Fire Watch
- e) Hazards/Case Studies
 - i. Case Studies
 - ii. 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

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- 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. Security Measures
 - xv. Establish an Identification System
 - xvi. Entry & Exit Guards
 - xvii. Erect Fences or Physical Barriers
- 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
- 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. Dry-Chemical System
- xxxviii. Wet-Chemical System
- xxxix. Gaseous Agent System
 - xl. Fire Department Connections
 - xli. Fire Hydrants
 - xlii. Fire Access Roads



TRAINING OUTLINE

- xliii. Cleanup
- xliv. Response Follow-Up
- xlv. Documentation
- xlvi. Providing Records to Government Officials
- xlvii. Conclusion

20) Conclusion

- a) Regulation & Overview
- b) Site Characterization
- c) Control Zones
- d) Hazard Recognition
- e) MAD
- f) Ergonomics
- g) Blood-Borne Pathogens
- h) SDSs
- i) Pictograms
- j) Heavy Machinery
- k) Toxicology
- I) Site Monitoring
- m) Illumination, Sanitation, New Technology
- n) Walking & Working Surfaces
- o) Fire Prevention
- p) Hazard Communication
- q) Material Handling
- r) Load Weight
- s) Excavation
- t) Lockout/Tagout
- u) Hazardous Locations
- v) Confined Spaces
- w) Fall Protection
- x) PPE
- y) Heat & Cold Stress
- z) Decontamination
- aa) Medical Surveillance
- bb) Emergency Response Plan
- cc) Practical Review
- dd) Congratulations!