

Course Length: 1 hour

Course Objective:

- Train employees on the use of dry chemical/CO2 portable extinguishers, wheeled units, foam and water spray applications. The class will also review how to safely extinguish incipient fires.

Course Design:

- Narrated e-learning modules

Successful Course Completion:

- Requires successful completion of knowledge assessment.

Course Outline:

Fire Related Statistics

- GOM Fires

Phases of Fire

- Incipient
- Free Burning
- Smoldering

Incipient Fire

- Fire Tetrahedron
 - Fuel
 - Oxygen
 - Heat
 - Chemical Reaction
- Common Fuels
- Effect of Oxygen
- Effects of Heat

Fire Prevention

- Common Ignition Sources
- Static Sparks
- General Prevention
- Chemical Storage
- Storage Cabinets
- Cylinder Storage and Transport

Classes of Fire

- Class A – Properties, extinguishing methods, and labeling
- Class B – Properties, extinguishing methods, and labeling
- Class C – Properties, extinguishing methods, and labeling

- Class D – Properties, extinguishing methods, and labeling
- Class K – Properties, extinguishing methods, and labeling

Fire Extinguishers (Main Types)

- Water – Function, extinguishing properties
- Carbon Dioxide (CO₂) – Function, extinguishing properties
- Dry Chemical – Function, extinguishing properties
- Cartridge Operated Dry Chemical
- Dry Chemical Wheeled Units
- Halon
- Foam – Function, extinguishing properties
- Extinguisher Limitations
 - UL Ratings
 - Class A, B, C Ratings
- Fire Blankets

Fire Extinguisher Inspection

- Monthly/Annual Inspections

Extinguishing Fire

- Steps for Extinguishing a Fire
 - Sounding Alarm
 - Sizing up the Fire
 - Gathering Equipment
 - Approaching Fire
 - Attack using “PASS” Method
 - Withdrawing
 - Re-attacking Fire
 - Wind Direction
- Limitations when fighting fire
- Extinguishing Methods
 - Starving
 - Inhibiting
 - Smothering
 - Quenching
- Common Extinguishing Agents

Fire Safety

- Common Hazards
 - Flames
 - Heat
 - Smoke
 - Toxic Vapors

- Suffocation
 - Explosions
- Safety Equipment
 - Gas Detectors
 - Respirators
 - Self-Contained Breathing Apparatus
 - Protective Clothing
 - FRC's, Bunker Gear
- Emergency Response Plan
- Emergency Evacuation

Post Training Evaluation:

- The employer shall ensure that each employee is evaluated to confirm that he/she understands the information provided in the training.

Reference Material / Documents:

National Fire Protection Association Codes and Standards
OSHA 29 CFR 1910.157 Portable Fire Extinguishers

M&A Safety Services training conforms to OSHA CBT Training standards and ANSI Z490.1. Criteria for Accepted Practices in Safety, Health and Environmental Training. M&A Safety Services LLC. follows all ANSI training criteria.

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