



## **Fire Watch/Incipient Course Outline**

**Prerequisites:** This course shall have no formal pre-requisite.

**Course Length:** 4 hours – Course length shall vary depending on the number of delegates. Total course time includes breaks.

**Class Size:** The maximum number of delegates that may be trained and tested per instructor shall be thirty-five (35) in the classroom session and thirty-five (35) in the practical session.

### **Course Objective**

- ) Provide delegates the necessary skills to safely perform incipient firefighting duties.
- ) General housekeeping rules to prevent fires.
- ) Discuss the classifications of fire.
- ) Discuss the classifications of fire extinguishers.
- ) Teach basic methods of fire extinguishment.
- ) Review incipient firefighting hazards.
- ) Teach general industry hot work & fire watch regulations and procedures.
- ) Delegates should be able to demonstrate the necessary skills during practical examination and demonstrate knowledge during written examination.

### **Course Design**

- ) Power Point© / Lecture / Audio Video / Visual Aids
- ) Demonstrations
- ) Practical Exercises

### **Successful Course Completion**

- ) Requires a minimum score of 75% or better.
- ) Grades shall be calculated by dividing the number of questions answered correctly by the total number of exam questions.
- ) Delegates will have no more than thirty (30) minutes to complete the exam.
- ) Successful completion of practical session is mandatory.

### **Course Content Summary**

- ) Classroom
- ) Practicals

**Breaks:** 10 minutes (approximately every hour)

**Lunch:** 1 Hour (if applicable)



## M&A Safety Services

512 Viaulet Road  
Youngsville, Louisiana 70592  
Main: 337-451-4685  
Fax: 337-451-5847  
[www.masafetyservices.com](http://www.masafetyservices.com)

### Course Outline

#### Fire Related Statistics

- ) GOM Fires

#### Phases of Fire

- ) Incipient
- ) Free Burning
- ) Smoldering

#### Incipient Fire

- ) Fire Tetrahedron
  - o Fuel
  - o Oxygen
  - o Heat
  - o 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 (CO<sub>2</sub>) – Function, extinguishing properties
- ) Dry Chemical – Function, extinguishing properties
- ) Cartridge Operated Dry Chemical
- ) Dry Chemical Wheeled Units



## M&A Safety Services

512 Viaulet Road  
Youngsville, Louisiana 70592  
Main: 337-451-4685  
Fax: 337-451-5847  
[www.masafetyservices.com](http://www.masafetyservices.com)

- ) Halon
- ) Foam – Function, extinguishing properties
- ) Extinguisher Limitations
  - o UL Ratings
    - Class A, B, C Ratings
- ) Fire Blankets

### Fire Extinguisher Inspection

- ) Monthly/Annual Inspections

### Extinguishing Fire

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

### Fire Safety

- ) Common Hazards
  - o Flames
  - o Heat
  - o Smoke
  - o Toxic Vapors
  - o Suffocation
  - o Explosions
- ) Safety Equipment
  - o Gas Detectors
  - o Respirators
  - o Self-Contained Breathing Apparatus
  - o Protective Clothing
    - FRC’s, Bunker Gear



## M&A Safety Services

512 Viaulet Road  
Youngsville, Louisiana 70592  
Main: 337-451-4685  
Fax: 337-451-5847  
[www.masafetyservices.com](http://www.masafetyservices.com)

- ) Emergency Response Plan
- ) Emergency Evacuation

### Hot Work/Fire Watch

- ) BSEE Regulations – 30 CFR Part 250.109 – 250.113
- ) Hot Work Permits
- ) Welding Plan
  - o Requirements
  - o Supervision
  - o Welding Equipment Requirements
  - o Before Welding Begins
  - o Welding Restrictions
  - o Well Bay Example
- ) Fire Watch Requirements
- ) Fire Watch Duties
- ) Gas Detectors
  - o Function
  - o Lower Explosive Limits
  - o Upper Explosive Limits

### Practical Session

Practical shall verify the following:

- ) Select and wear appropriate PPE during practical training
- ) Inspect and identify damaged extinguishers
- ) Select appropriate extinguisher and firefighting equipment
- ) Effectively communicate with others in the area using proper alerting techniques
- ) Demonstrate use of firefighting equipment
- ) Demonstrate firefighting techniques as discussed in theory
- ) Demonstrate fire extinguishing procedures
- ) Remove used extinguishers from service properly

### Training Center Provided Material

- ) PPE
- ) Fire Extinguisher

### Delegate Requirements

- ) None

### Reference Material / Documents

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



**M&A Safety Services**

512 Viaulet Road  
Youngsville, Louisiana 70592  
Main: 337-451-4685  
Fax: 337-451-5847  
[www.masafetyservices.com](http://www.masafetyservices.com)

OSHA 29 CFR 1926.150 Fire Protection  
BSEE 30 CFR 250.109 – 250.113 (Welding & Burning)