

<b>COURSE TITLE:</b>	<b>Hazardous Materials Safety Officer (Traditional and Online Editions)</b>		Course No. & Version:	<b>HAZ039 2023</b>
<b>TOPIC AREA:</b>	<b>Hazardous Materials</b>	<b>LEVEL:</b>	<b>Technician</b>	
<b>SOURCE:</b>	<b>Internal</b>	Course No.	<b>N/A</b>	
<b>PRIMARY DOMAIN:</b>	<input type="checkbox"/> Didactic <input type="checkbox"/> Psychomotor <input checked="" type="checkbox"/> Combination			
<b>DELIVERY METHOD:</b>	<b>40 % Lecture</b> % Hands-on        % Distanced <b>60 % Other: In Classroom or Online Activities</b>			
<b>DURATION:</b>	<b>Hrs 16</b>	<b>SCHEDULING:</b>	<b>2 – 8-hour days (or 4 weeks Online)</b>	
<b>PROGRAM GOAL:</b>	<p>Upon completion of this program, the Hazardous Materials Technician will be able to support the Incident Safety Officer by performing the functions of a Hazardous Materials Safety Officer. The course participant will analyze hazards and risks to personnel, develop a site safety and control plan, support plan implementation, monitor the scene for deviation, take corrective measures, and ensure that the incident is properly terminated. Activities conducted during this program will address incidents involving both fixed and transportation-related emergencies.</p>			
<b>TARGET AUDIENCE:</b>	<p>Hazardous Materials Technicians or allied professionals as defined by NFPA 470 Chapter. For organizations that function at the Operations level during hazardous materials emergencies, this program would support those individuals who may be tasked with the Safety Officer role.</p>			
<b>COURSE DESCRIPTION:</b>	<p>This two-day traditional classroom or four-week online program provides the Hazardous Materials Technician with the knowledge and skills to effectively serve as a Hazardous Materials Safety Officer. The program uses a series of presentations and scenarios involving facility and transportation-based incidents. The participants are provided with opportunities to apply their existing knowledge to their role as the HazMat Safety Officer during the analysis, planning, implementation, evaluation, and termination phases of the incident.</p>			
<b>MAX STUDENTS:</b>	<b>24</b>	<b>MAX INST. RATIO:</b>	<b>1:12</b>	
<b>STANDARDS ADDRESSED:</b>	OSHA 29 CFR 1910.120(q) NFPA 470 "Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders" Chapter 18 "Competencies for Hazardous/WMD Safety Officers"			
<b>APPROVALS</b>				
Organization	No. / Date	Conditions		
<b>FSFC</b>	2020-2022	Course Number RN11306		
<b>NOTES</b>				

## HAZARDOUS MATERIALS SAFETY OFFICER

### Program Goal

Upon completion of this program, the Hazardous Materials Technician will be able to support the Incident Safety Officer by performing the functions of a Hazardous Materials Safety Officer. The course participant will analyze hazards and risks to personnel, develop a site safety and control plan, support plan implementation, monitor the scene for deviation, take corrective measures, and ensure that the incident is properly terminated. Activities conducted during this program will address incidents involving both fixed and transportation-related emergencies.

### Program Description

This two-day traditional classroom or four-week online program provides the Hazardous Materials Technician with the knowledge and skills to effectively serve as a Hazardous Materials Safety Officer. Through a series of presentations and reinforcing scenario-based activities, the participants are provided with information concerning their expected roles during the analysis, planning, implementation, evaluation, and termination phases of the event.

### Prerequisite

Participants shall be trained to the level of Hazardous Materials Technician or an allied professional (e.g. Industrial Hygienist, Certified Safety Professional).

### Target Audience Considerations

This program is intended for Hazardous Materials Technicians or allied professionals as defined by NFPA 472 who, in the performance of their duties, could be assigned the role of Hazardous Materials Safety Officer during a hazardous materials incident.

### Educational Objectives

**Analysis:** Given scenarios involving hazardous materials/WMD incidents, the hazardous materials safety officer shall observe a scene, review, and evaluate hazard and response information as it pertains to the safety of all persons within the hazardous materials branch/group.

**Planning:** Given scenarios involving hazardous materials/WMD incidents, the hazardous materials safety officer shall assist the hazardous materials branch director or group supervisor in developing a site safety and control plan to respond within the capabilities of available response personnel, personal protective equipment, and control equipment.

**Plan Implementation:** Given a scenario involving hazardous materials/WMD incidents, the hazardous materials safety officer shall perform the duties of the position in a manner consistent with the emergency response plan and/or standard operating procedures.

**Evaluating Operations:** Given scenarios involving hazardous materials/WMD incidents and given deviations from the site safety and control plan for activities in both the hot and warm zones and dangerous conditions, the hazardous materials safety officer shall evaluate the progress of the planned response to ensure that the response objectives are being met safely.

**Terminating the Incident:** Given scenarios involving hazardous materials/WMD incidents, the hazardous materials safety officer shall complete and submit the reports, documentation, and follow-up required of the hazardous materials safety officer and shall:

## TWO-DAY TRADITIONAL DELIVERY SCHEDULE

### Day 1

0830–0900	Registration Welcome and Introductions
0900–0930	Applicable Laws and Standards
0930–1200	Hazard/Risk Assessment Activity 1 - Evaluating Material Hazards Incident Analysis Container & Environment Impacts
1200–1300	Lunch
1300–1400	Activity 2—Developing an Incident Risk Analysis
1400–1730	Safety Planning Process & the IAP Pre-Incident Plans Activity 3—Impacts of Pre-Incident Plan Components of the Site Safety & Control Plan Activity 4—Plan Development

### Day 2

0830–1000	Implementation & Evaluation Activity 5—Case Studies
1000–1200	Activity 6—Scenario 1 Activity 6—Scenario 2
1200–1300	Lunch
1300–1530	Activity 6—Scenario 3 Activity 6—Scenario 4 Activity 6—Scenario 5
1530–1600	Incident Termination
1600–1700	Activity 7—Incident Termination
1700–1730	Exam Program Closure

## FOUR-WEEK ONLINE SCHEDULE

### PRECOURSE

Module 0 – Program Introduction  
Welcome  
**Activity 0.1 – Large Group Forum** Student/Instructor Introductions  
Course Syllabus and Schedule  
LMS Overview

### WEEK 1

**Live Webinar** – Welcome and webinar test  
Introductory Case Study  
Module 1 – Role of the Hazardous Materials Safety Officer  
Definition and Roles  
Importance of Preplanning  
Safety Officer Job Aid  
Responsibilities  
**Activity 1.1 – Small Group Forum** Evaluation of the Standard of Care  
Individual written assignment  
**Assignment 1.2** Pre-Incident Planning and Case Study  
Individual written assignment

### WEEK 2

**Live Webinar** – Role of the HMSO, Introduction to Module 2  
Module 2 – Analyzing the Incident  
Safety Officer Job Aid  
Product  
**Activity 2.1 – Small Group Forum** Five Chemical Comparative Analysis  
**Live Webinar** – Evaluation of Product Hazard Analysis  
Container  
**Assignment 2.2 – Container Safety Hazard Analysis**  
**Activity 2.3 – Container Hazard Scenario**  
Environment & Cause  
**Activity 2.4 – Scene Hazard Analysis**

**WEEK 3**

- Live Webinar**– Hazard Analysis & Risk Assessment
- Introduction to Modules 3 & 4
- Module 3 –
  - Planning the Response
  - Safety Officer Job Aid
  - Credentials and Competencies
  - Managing Risks
  - Managing the ICS 215A and 208HM
  - Activity 3.1 & 3.2 Hazard Analysis and Risk Assessment**
  - Personal Protective Equipment
  - Activity 3.3 & 3.4 Evaluating PPE and Risks of Control Measures**
  - Decontamination
  - Medical Aspects of Response
- Module 4 – Implementation & Monitoring
  - Safety Officer Job Aid
  - Pre-Entry Check List
  - Pre-Entry Briefing

**WEEK 4**

- Live Webinar**– Developing an ICS 208 HM
- Module 4 – Implementation & Monitoring (con't)
  - Safety Officer Job Aid
  - Pre-Entry Check List
  - Pre-Entry Briefing
  - Activity 4.1 Pre-Entry Considerations**
  - Monitoring Operations
  - Activity 4.2 Suspend, Alter or Terminate**
  - Live Webinar - Activity 4.3 Implementing and Monitoring**
- Module 5 – Terminating the Hazardous Materials Incident
  - Procedures for Terminating the Incident
  - Activity 5.1 – Developing an Incident Termination Plan**

**WEEK 5**

- Live Webinar**– **Activity 5.2 Monitoring Operations and Termination**
- Program Summary
- Program Closure
- Exit Evaluations