Course Title: Hazardous Materials Incident Management System

Course Duration: 16 hours

Program: Hazardous Materials Program

Level of Training: Planning/Management (OSHA Incident Command)

Course Prerequisites:
- Hazardous Materials Operations
- ICS-100
- ICS-200

Course Description:

The goal of this 16-hour course is to prepare local responders to operate as a local member of a regional team within the NIMS at a CBRNE (Chemical, Biological, Radiological, Nuclear, or Explosive) WMD Event requiring statewide response that has resulted in the exposure to a hazardous material. During this course, the students will demonstrate the individual skills necessary to direct and coordinate all aspects of a hazardous materials incident; Implement the incident management system; Simulate an activation of the emergency response plan, state and federal regional response plans; Show a knowledge and understanding of the importance of decontamination procedures; Demonstrate an understanding of hazards associated with employees working in chemical protective clothing; Analyze a hazardous materials incident, set objectives, identify potential action plans, evaluate the planned response, documentation, and complete the final termination requirements.
Course Content:

Module: 1
Title: Incident Management Core Competencies

Terminal Learning Objective:
At the conclusion of this module, the student will recognize his/her roles as an Incident Commander at a hazardous materials incident.

Module: 2
Title: Overview of the Hazardous Materials Incident Management System

Terminal Learning Objective:
At the conclusion of this module, the student will identify basic structure and function of IMS, Unified Command, and NIMS.

Module: 3
Title: Analyzing the Incident

Terminal Learning Objective:
At the conclusion of this module, the student will collect and interpret hazard and response information and explain how it relates to the management of the scene.

Module: 4
Title: Planning the Response

Terminal Learning Objective:
At the conclusion of this module, the student will identify factors to consider in planning the hazardous materials response.

Module: 5
Title: Implementing the Incident Management System

Terminal Learning Objective:
At the conclusion of this module, the student will describe the implementation of the Incident Management System.
Module: 6
Title: Evaluating the Response

Terminal Learning Objective:
At the conclusion of this module, the student will evaluate the overall progress of the hazardous materials response from an incident management perspective.

Module: 7
Title: Terminating the Incident

Terminal Learning Objective:
At the conclusion of this module, the student will explain how to effectively terminate the incident.

Module: 8
Title: CBRNE and Terrorism Considerations

Terminal Learning Objective:
At the conclusion of this module, the student will explain how to deal with situations involving known or suspected terrorist activity.

Evaluation Strategy:
A written test and final practical incident are conducted at the completion of the course. In addition, several simulated evolutions and table-top scenarios are used throughout the course.
References:


FEMA 501-1, *NIMS Basic: Introduction and Overview*

FEMA 501-5, *NIMS Basic: Communications and Information Management*

Illinois Fire Service Institute Hazardous Materials Operations Text


## Course Schedule

### Day One

<table>
<thead>
<tr>
<th>Event</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module 1: Incident Management Core Competencies</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Module 2: Overview of the Hazardous Materials Incident Management System</td>
<td>1 hour</td>
</tr>
<tr>
<td>Activity 1: Lego Communications</td>
<td>1 hour</td>
</tr>
<tr>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>Incident 1: Railcar Release of Ammonia</td>
<td>1 hour and 30 min</td>
</tr>
<tr>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>Module 3: Analyzing the Incident</td>
<td>1 hour and 30 min</td>
</tr>
<tr>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>Incident 2: Pipe Leaking Hydrofluoric Acid</td>
<td>1 hour and 30 min</td>
</tr>
<tr>
<td>Module 4: Planning the Response</td>
<td>1 hour</td>
</tr>
</tbody>
</table>
## Day Two

<table>
<thead>
<tr>
<th>Event</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incident 3: One Ton Chlorine Cylinder</td>
<td>1 hour and 30 min</td>
</tr>
<tr>
<td>Module 5: Implementing the Incident Management System</td>
<td>30 minutes</td>
</tr>
<tr>
<td><strong>Break</strong></td>
<td></td>
</tr>
<tr>
<td>Module 6: Evaluating Progress</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Module 7: Terminating the Incident</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Incident 4: Phosgene Release</td>
<td>1 hour and 30 min</td>
</tr>
<tr>
<td><strong>Lunch</strong></td>
<td></td>
</tr>
<tr>
<td>Module 8: CBRNE and Terrorism Considerations</td>
<td>30 minutes</td>
</tr>
<tr>
<td><strong>Final Incident</strong></td>
<td></td>
</tr>
<tr>
<td>Final Exam and CEQ's</td>
<td>1 hour</td>
</tr>
</tbody>
</table>