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| COURSE TITLE: | **Incident Management for Hazardous Materials Emergencies** | COURSE# EDITION: | **HAZ047 2018** |
| TOPIC AREA: | **Hazardous Materials** | LEVEL: | **Command** |
| SOURCE: | **Internal** | COURSE#: | **HAZ047** |
| PRIMARY DOMAIN: | **X** Didactic ☐ Psychomotor ☐ Combination | | |
| DELIVERY METHOD: | **60 %** Lecture **%** Hands-on % Distanced<br>**40 %** In-Class Activities | | |
| DURATION: | **21** | SCHEDULING: | **Three – 8 hour days** |
| PROGRAM GOAL: | Upon completion of this program, the emergency services field commander shall understand the unique aspects of the emergency involving hazardous materials. They demonstrate the ability to analyze, plan and implement an incident action plan for the safe and successful resolution of the emergency. | | |
| TARGET AUDIENCE: | Incident managers and hazardous materials technician that may be called upon to manage hazardous materials emergencies. Prerequisites include Hazardous Operations Level training or greater and incident management training at the NIMS 300 level or higher. | | |
| COURSE DESCRIPTION: | This three – day program provides the potential incident commander with the knowledge and skills to manage the hazardous materials incident. Program content and extensive use of classroom activities are used to master the following topics: Standard of care • Legislative, regulatory and standards influences • Employer emergency response plans • Incident organization • HazMat branch and safety officer operations • Hazard analysis and risk assessment • IAP development • Termination and documentation | | |
| NFPA 1403 APPLICABILITY: | Not applicable | | |
| MAX STUDENTS: | 24 | MAX INST. RATIO: | 1:12 |
| STANDARDS MET: | OSHA 29 CFR 1910.120(q)(6)<br>NFPA 472 Chapter 8 (2013) | | |

**APPROVALS**

| ORGANIZATION: | NO./DATE: | CONDITIONS: |
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| NOTES: | |

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## Educational Objectives

The students shall describe the influences and components related to the hazardous materials Standard of Care.

- Define the term Standard of Care.
- Identify significant incidents that influenced hazardous materials response laws, regulations and standards.
- Identify what levels of training are required of a HazMat Incident Commander.
- Identify the key considerations of laws, regulations and standards.
- Identify the key requirements of 20 CFR 1910.120 as it influences incident command.

The student will identify the requirements of the Employer's Emergency Response Plan as required by 29 CFR 1910.120(q)(1) and how it impacts the incident commander.

- Identify required elements of the ERP.
- Identify roles and responsibilities of personnel under the ERP.
- Identify potential impacts of failure to follow the requirements of the ERP.

Given hazardous material incident case studies, identify the key incident management factors resulting in the injury or fatality of responders.

Given a review of the National Incident Management System, describe the roles and responsibilities of personnel at the hazardous materials incident.

- Describe the role of the incident commander, command and general staff positions.
- Identify the areas of responsibilities for the Hazmat Group/Branch.
- Identify the roles and responsibilities for the ICS positions within the HazMat Group/Branch.
- Identify the roles and responsibilities of the Assistant Safety Officer: Hazardous Material and his/her relationship with the Incident Safety Officer and HazMat Group Leader.

The student will identify the key considerations for decision making during a hazardous materials emergency.

- Differentiate between a procedural and risk based response.
- Identify the considerations of both the Eight Step and GEDAPER incident management models.
- Identify potential incident objectives and tactical considerations for their accomplishment.

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The student will demonstrate the ability to develop a incident action plan.

- Demonstrate and understanding of the Planning "P" as it applies to a hazardous materials incident.
- Develop an incident action plan for the initial operational period of a hazmat incident.
- Given an incident and technical specialists, analyze the four incident components necessary for the completion of a hazard analysis and risk assessment.
- Develop and incident action plan for operational periods beyond the initial response.
- Identify the requirements for proper incident documentation and termination procedures.

## Course Schedule

| Time | Day 1 | Day 2 | Day 3 |
|---|---|---|---|
| 8:00 – 8:15 | 40 min<br>Registration/Introduction<br>Ice Breaker Activity | 15 min<br>Day 1 Review Verbal Evaluation | 15 min<br>Day 2 Review Verbal Evaluation |
| 8:15 – 8:30 | | 45 min<br>Review of NIMS 300 Level | 60 min<br>NFA Incident Objectives and Action Options |
| 8:30 – 8:45 | | | |
| 8:45 – 9:00 | 30 min<br>Standard of Care<br>Basic Competency Requirements | | |
| 9:00 – 9:15 | | 50 min<br>Operational Periods & The "P" and Key ICS Forms | |
| 9:15 – 9:30 | Activity<br>Ops Level Self-Assessment<br>10 min Break | | 90 min Activity<br>Single Operational Period<br><br>4 Scenarios<br>30 minutes work<br>15 minutes each team reports |
| 9:30 – 9:45 | | | |
| 9:45 – 10:00 | 60 min<br>HazMat Background and Legislative Impacts | 10 min Break | |
| 10:00 – 10:15 | | 45 min Activity<br>ICS 201 and Key Supporting Forms | |
| 10:15 – 10:30 | | | |
| 10:30 – 10:45 | | | |
| 10:45 – 11:00 | 10 min Break<br>60 min Regulations | 45 min<br>HazMat Group/Branch | 10 min Break |
| 11:00 – 11:15 | | | 15 min<br>Content of the iap<br>15 min<br>The Planning "P" |
| 11:15 – 11:30 | | | |
| 11:30 – 11:45 | | 30 min<br>Role of the Hazardous Materials Safety Officer | 30 min Activity<br>The Planning Meeting |
| 11:45 – 12:00 | | | |
| 12:00 – 12:15 | 60 min Lunch Break | 60 min Lunch Break | 60 min Lunch Break |
| 12:15 – 12:30 | | | |
| 12:30 – 12:45 | | | |
| 12:45 – 1:00 | | | |
| 1:00 – 1:15 | 60 Minutes<br>Paragraph (q) of 1910.120<br>1910.120 (q)(1) ERP<br>1910.120(q)(6) Training | 60 min<br>Basics of Hazards analysis and Risk Assessment | 150 min Capstone Activity |
| 1:15 – 1:30 | | | |
| 1:30 – 1:45 | | | |

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| Time | Day 1 | Day 2 | Day 3 |
|---|---|---|---|
| 1:45 – 2:00 | | | |
| 2:00 – 2:15 | 30 min<br>NFPA Standards<br>472, 473, 475 & 1900 series | 50 min Activity<br>Organizing the HazMat Incident | |
| 2:15 – 2:30 | | | |
| 2:30 – 2:45 | 10 min Break<br>65 min Activity<br>Employer Emergency Response Plan | | |
| 2:45 – 3:00 | | 10 min Break | |
| 3:00 – 3:15 | | 45 min<br>Response Options (Procedural vs. Risk Based)<br>Decision Making (GEDAPER, 8 Step)<br>Eight Incident Objectives | |
| 3:15 – 3:30 | | | |
| 3:30 – 3:45 | | | 30 min<br>Class Review |
| 3:45 – 4:00 | 10 min Break<br>50 Min Activity<br>When Things Go Wrong | 45 min Activity<br>“Identifying Options for Achieving Incident Objectives” (Socratic) | |
| 4:00 – 4:15 | | | Final Exam, Review and Course Closure |
| 4:15 – 4:30 | | | |
| 4:30 – 4:45 | | | |
| 4:45 – 5:00 | 15 min<br>Daily Summary | 15 min<br>Daily Summary | |
| 5:00 – 5:15 | | | |
| 5:15 – 5:30 | | | |
| Out of Class | | | |

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