Course Description

Study of information needed by responders to HAZMAT incidents as required by OSHA and recommended by NFPA. Assesses the three levels of training, First Responder Awareness Level, First Responder Operational Level, and Hazardous Material Technician.

Course Overview

This course is designed to accomplish an understanding and an ability to explain information at three levels of training:

1. First responder awareness level
2. First responder operation level
3. Hazardous materials technician

The objective of this course is to have knowledge and understanding equivalent to each of the three titles shown above. It does not provide the required “hands-on training” for these titles. It also covers material that is common to hazardous waste site remediation operations.

It is recommended that after completing this course that you enroll in a HAZWOPER course. People facing these situations everyday instruct this course. If this is your profession, you will need this class to receive certification to act as a First Responder. You will receive instruction in real-life First Responder situations, along with the use of required equipment.

Prerequisites

None

Course Textbook


Course Learning Objectives

Upon completion of this course, students should be able to:

1. Differentiate the role and functions of SARA Title III, LEPC's, and emergency responders.
2. Describe the nine hazard classes, and hazards associated with each class, as defined by DOT.
3. Define and classify recognition, location, occupancy and identification systems or programs for hazardous materials storage and transportation.
4. Summarize the use of NFPA 704 system.
5. Explain the importance of understanding chemical and physical properties of hazardous materials and the health hazards associated with chemical releases.
6. Interpret the key components and use of the Emergency Response Guidebook.
7. Inventory and cite the various PPE, air monitoring, detection and decontamination equipment utilized in emergency responses.
8. Describe the various incident management systems.
9. Explain the various methods for isolation and evacuation decision-making.
10. Summarize the various methods of damming, diking, diverting, and other defensive operations.
11. Discuss the possible consequences and contingencies involved in potential terrorist activity associated with an emergency response.
12. Distinguish the special requirements for SWAT operations.

Credits

Upon completion of this course, the students will earn three (3) hours of college credit.

Course Structure

1. **Unit Learning Objectives:** Each unit contains Unit Learning Objectives that specify the measurable skills and knowledge students should gain upon completion of the unit.
2. **Written Lectures:** Each unit contains a Written Lecture, which discusses lesson material.
3. **Key Terms:** Key terms are intended to guide students in their course of study. Students should pay particular attention to key terms as they represent important concepts within the unit material and reading.
4. **Reading Assignments:** Each unit contains reading assignments from one or more chapters from the textbook.
5. **Learning Activities (Non-Graded):** These non-graded Learning Activities are provided to aid students in their course of study.
6. **Discussion Boards:** Discussion Boards are a part of all CSU term courses. Information and specifications regarding these assignments are provided in the Academic Policies listed in the Course Menu bar.
7. **Unit Assessments:** This course contains six Unit Assessments, one to be completed at the end of Units I-III and V-VII. Assessments are composed of multiple choice and written response questions.
8. **Unit Assignments:** Students are required to submit for grading an Article Critique in Unit IV. Specific information and instructions regarding these assignments are provided below.
9. **Research Paper:** Students are required to submit for grading a Research Paper in Unit VIII. Specific information and instructions regarding this assignment are provided below.
10. **Ask the Professor:** This communication forum provides you with an opportunity to ask your professor general or course content related questions.
11. **Student Break Room:** This communication forum allows for casual conversation with your classmates.

Unit Assignments

Unit IV Article Critique

This assignment allows you the opportunity to review the material contained in the first three units of the course and apply that knowledge in the preparation of an Article Critique. The selected article should be based on a topic relating to the regulations or actual response by a safety, environmental, or fire service professional to an incident that involves hazardous materials.

The Article Critique should include the following components:

1. A brief introduction of the article
2. A statement on the implications of the article for the Emergency Responder to an incident involving hazardous materials
3. Analysis of the key points in the article
4. Summary of the article's conclusions and your own opinions

The completed assignment must be a minimum of two pages to a maximum of four pages, double-spaced, and follow APA Style guidelines.

The article selected for this assignment should relate to the material presented in the first three units of the course. The article itself must be more than one page in length and should come from the journals and articles available in our CSU Library Databases. The Ebsco Database (Business Source Complete) is a very good source of journals for articles related to these topics. Students can access this information, as well as other CSU Online Library resources, by clicking on the My Library button located in the Course Menu.
Unit VIII Research Paper

For the Research Paper assignment, you are to choose one of the following subject areas and prepare a well-organized and well-researched paper regarding the HAZMAT aspects of the selected topic. Subject areas to consider are the following:

1. Chemical, Biological, and Nuclear Agents and Incidents
2. Role of Specific Air Monitoring and Detection Devices in Terrorist Related Hazardous Materials Incidents
3. Interagency Disaster Management: Preparedness and Response to a Terrorist Incident
4. Contact the HAZMAT team for your current town, city, or county/parish. Talk with them and find out their activities and plans for improving their capabilities in the increasingly complex world we live of terrorism, crime, and traditional HAZMAT duties. How do they train and how do they change their approach to incidents as a result of that training? What do they feel are their greatest weaknesses? Their greatest strengths?

Once you have chosen one of the subject areas listed above, investigate the selected topic for the most up-to-date information regarding the subject as it relates to HAZMAT.

Your paper must contain at least three (3) Internet sources, in addition to one (1) professional journal article or resource (i.e., textbook, not the course textbook) related to the profession. The Ebsco Database (Business Source Complete) is a very good source of journals for articles related to these topics. Students can access this information, as well as other CSU Online Library resources, by clicking on the My Library button located in the Course Menu.

Students are required to submit the Research Paper typed in MS Word using the APA Style format, double-spaced, with 1-inch margins (top, bottom, and sides). The project must be submitted in 12pt. Times New Roman font, and with proper APA heading guidelines followed. Evaluations will use the 60/40 Rule based on 100 points, where 60% of the paper grade is discerned by overall content, with 40% of the grade according to the following: points will be deducted (maximum 25) for the following APA formatting deficiencies:

- Lack of valid in-text citations
- Reference list that does not meet APA requirements (ALL sources identified through in-text citation must also appear on the reference list)
- Lack of a valid title page
- Not using appropriate font size (12pt.), margins, double-spacing, or proper APA headings
- Lack of page header with page number
- Quality of writing
- Bad grammar, spelling, and punctuation
- Lack of originality. Points will be deducted based on the percentage of the paper that is comprised of non-original work. For example, if 20% of the paper consists of paragraphs that have been simply copied and pasted into the paper, 20 points will be deducted.
- Lack of introduction (10 points)
- Lack of conclusion (10 points)

APA Guidelines

CSU requires that students use the APA style for papers and projects. Therefore, the APA rules for formatting, quoting, paraphrasing, citing, and listing of sources are to be followed. A document titled “APA Guidelines Summary” is available for you to download from the APA Guide Link, found in the Learning Resources area of the myCSU Student Portal. It may also be accessed from the Student Resources link on the Course Menu. This document provides links to several internet sites that provide comprehensive information on APA formatting, including examples and sample papers.

CSU Grading Rubric for Papers/Projects

The course papers will be graded based on the CSU Grading Rubric for all types of papers. In addition, all papers will be submitted for electronic evaluation to rule out plagiarism. Course projects will contain project specific grading criteria defined in the project directions. To view the rubric, click the Academic Policies link on the Course Menu, or by accessing the CSU Grading Rubric link, found in the Learning Resources area of the myCSU Student Portal.
Communication Forums

These are non-graded discussion forums that allow you to communicate with your professor and other students. Participation in these discussion forums is encouraged, but not required. You can access these forums with the buttons in the Course Menu. Instructions for subscribing/unsubscribing to these forums are provided below.

Click here for instructions on how to subscribe/unsubscribe and post to the Communication Forums.

Ask the Professor

This communication forum provides you with an opportunity to ask your professor general or course content questions. Questions may focus on Blackboard locations of online course components, textbook or course content elaboration, additional guidance on assessment requirements, or general advice from other students.

Questions that are specific in nature, such as inquiries regarding assessment/assignment grades or personal accommodation requests, are NOT to be posted on this forum. If you have questions, comments, or concerns of a non-public nature, please feel free to email your professor. Responses to your post will be addressed or emailed by the professor within 48 hours.

Before posting, please ensure that you have read all relevant course documentation, including the syllabus, assessment/assignment instructions, faculty feedback, and other important information.

Student Break Room

This communication forum allows for casual conversation with your classmates. Communication on this forum should always maintain a standard of appropriateness and respect for your fellow classmates. This forum should NOT be used to share assessment answers.

Grading

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<tr>
<td>Discussion Board (8 @ 2%)</td>
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<tr>
<td>Unit Assessments (6 @ 6%)</td>
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<td>Article Critique</td>
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<td>Research Paper</td>
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<tr>
<td><strong>Total</strong></td>
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Course Schedule/Checklist (PLEASE PRINT)

The following pages contain a printable Course Schedule to assist you through this course. By following this schedule, you will be assured that you will complete the course within the time allotted.
By following this schedule, you will be assured that you will complete the course within the time allotted. Please keep this schedule for reference as you progress through your course.

<table>
<thead>
<tr>
<th>Unit I</th>
<th>Hazardous Materials Laws, Regulations, and Standards</th>
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| **Review:** | ☐ Unit Study Guide  
 ☐ **Learning Activities (Non-Graded):** See Study Guide |
| **Read:** | ☐ Chapter 1: Hazardous Materials: Laws, Regulations, and Standards |
| **Discuss:** | ☐ **Discussion Board Response:** Submit your response to the Discussion Board question by Saturday, Midnight (Central Time) |
| **Submit:** | ☐ **Assessment** by Tuesday, Midnight (Central Time) |

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<th>Unit II</th>
<th>Recognition, Identification, and Information Resources</th>
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| **Review:** | ☐ Unit Study Guide  
 ☐ **Learning Activities (Non-Graded):** See Study Guide |
| **Read:** | ☐ Chapter 2: Recognition and Identification  
 ☐ Chapter 3: Information Resources |
| **Discuss:** | ☐ **Discussion Board Response:** Submit your response to the Discussion Board question by Saturday, Midnight (Central Time)  
 ☐ **Discussion Board Comment:** Comment on another student’s Discussion Board response by Tuesday, Midnight (Central Time) |
| **Submit:** | ☐ **Assessment** by Tuesday, Midnight (Central Time) |

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<tr>
<th>Unit III</th>
<th>Protection</th>
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| **Review:** | ☐ Unit Study Guide  
 ☐ **Learning Activities (Non-Graded):** See Study Guide |
| **Read:** | ☐ Chapter 4: Protection |
| **Discuss:** | ☐ **Discussion Board Response:** Submit your response to the Discussion Board question by Saturday, Midnight (Central Time)  
 ☐ **Discussion Board Comment:** Comment on another student’s Discussion Board response by Tuesday, Midnight (Central Time) |
| **Submit:** | ☐ **Assessment** by Tuesday, Midnight (Central Time) |

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<th>Notes/Goals:</th>
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</table>
## Unit IV: Article Critique

- **Review:**
  - Unit Study Guide
  - Learning Activities (Non-Graded): See Study Guide

- **Read:** None

- **Discuss:**
  - Discussion Board Response: Submit your response to the Discussion Board question by Saturday, Midnight (Central Time)
  - Discussion Board Comment: Comment on another student’s Discussion Board response by Tuesday, Midnight (Central Time)

- **Submit:** Article Critique by Tuesday, Midnight (Central Time)

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## Unit V: Protective Actions

- **Review:**
  - Unit Study Guide
  - Learning Activities (Non-Graded): See Study Guide

- **Read:** Chapter 5: Protective Actions

- **Discuss:**
  - Discussion Board Response: Submit your response to the Discussion Board question by Saturday, Midnight (Central Time)
  - Discussion Board Comment: Comment on another student’s Discussion Board response by Tuesday, Midnight (Central Time)

- **Submit:** Assessment by Tuesday, Midnight (Central Time)

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## Unit VI: Product Control and Air Monitoring

- **Review:**
  - Unit Study Guide
  - Learning Activities (Non-Graded): See Study Guide

- **Read:** Chapter 6: Product Control and Air Monitoring

- **Discuss:**
  - Discussion Board Response: Submit your response to the Discussion Board question by Saturday, Midnight (Central Time)
  - Discussion Board Comment: Comment on another student’s Discussion Board response by Tuesday, Midnight (Central Time)

- **Submit:** Assessment by Tuesday, Midnight (Central Time)
# Unit VII: Terrorism Awareness, HAZMAT, and Law Enforcement

**Review:**
- Unit Study Guide
- **Learning Activities (Non-Graded):** See Study Guide

**Read:**
- Chapter 7: Terrorism Awareness
- Chapter 8: HAZMAT and Law Enforcement

**Discuss:**
- **Discussion Board Response:** Submit your response to the Discussion Board question by Saturday, Midnight (Central Time)
- **Discussion Board Comment:** Comment on another student’s Discussion Board response by Tuesday, Midnight (Central Time)

**Submit:**
- **Assessment** by Tuesday, Midnight (Central Time)

**Notes/Goals:**

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# Unit VIII: Research Paper

**Review:**
- Unit Study Guide
- **Learning Activities (Non-Graded):** See Study Guide

**Read:**
- None

**Discuss:**
- **Discussion Board Response:** Submit your response to the Discussion Board question by Saturday, Midnight (Central Time)
- **Discussion Board Comment:** Comment on another student’s Discussion Board response by Tuesday, Midnight (Central Time)

**Submit:**
- **Research Paper** by Tuesday, Midnight (Central Time)

**Notes/Goals:**