

OESM 215: HAZARDOUS MATERIALS MANAGEMENT APPLICATIONS

Course Description:

A study of the requirements and application of federal, state, and local laws and regulations relating to hazardous materials, including the Right-to-Know laws, transportation regulations, underground storage tank laws, and air quality standards.

Course Objectives:

Upon completion of the course students are expected to be able to:

- § Identify pertinent regulations related management of hazardous materials
- § Explain scope and applications of relevant hazardous material regulations
- § Design a HazCom employee training program in compliance with the Hazard Communication Standard
- § List elements of a written Hazardous Communication Program as required by the Hazard Communication Standard
- § List major requirements for the Emergency Planning and Community Right-to-Know Act
- § Describe major requirements for the Hawaii Community Right-to-Know Law
- § Explain the release reporting requirements
- § Identify appropriate methods for packaging, labeling, and placarding when transporting hazardous materials
- § State the carrier requirements for hazardous material transportation
- § Define selected terms used in hazardous materials regulations
- § Apply appropriate hazardous material regulations to a given scenario
- § Discuss the underground storage tank standards
- § Identify relevant requirements associated with underground storage tank removal
- § Work as a group to prepare a written report as assigned
- § Conduct a class presentation as assigned

Textbook:

Instructor-prepared materials will be distributed in class.

Student Evaluation:

Exam 1	25	points
Exam 2	25	points
Final Exam (comprehensive)	100	points
Group Project:		
Written Paper	30	points
Oral Presentation	20	points

Grading: A: 180-200 B: 160-179 C: 130-159 D: 100-129 F: <100

Final grades are permanent. Final "I" grades will not be allowed in this class. Final "N" grades will be given only in very rare and exceptional cases.

HCC Grading Policies:

- a. *No Show Policy.* Students must attend both of the first two class sessions of the semester or may be dropped unless they notify the instructor or the Division Chair in advance of their absence.
- b. *Disappear Policy.* Students may receive an "F" grade if they do not officially drop their course by the drop deadline listed in the Academic Calendar of the current HCC catalogue or the schedule of classes.

Emergency Procedures:

- a. Location of first aid kit: In the back of classroom by the sink
- b. Evacuation of building:
 - Use Diamond Head and Ewa stairs and proceed to parking lot #2 (by the cafeteria).
 - Assemble and wait for further instructions from the instructor.
- c. Accident or Injury:
 - 1. Call 911 for an ambulance. Give essential information:
 - Location -- building and room number, road to enter campus
 - Type of emergency and victim's condition
 - Your name and phone number
 - 2. Call 284-1270 (cell - Security)
 - To notify Campus Security that an ambulance has been summoned
 - To have Campus Security escort the ambulance to the location
 - To request other assistance

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Spring 2005**

WEEK	TOPICS
1	<p>Introduction</p> <p>Course Objectives</p> <p>Review: Rules & regulations Applicable to Hazardous Material Management</p>
2	<p>Hazard Communication Standard: Scope/Applicability/Exemptions, Inventory Procedure, Responsibilities, Maintaining the Inventory, Hazard Determination, Labelling Requirements,</p> <p>HazCom Employee Training: MSDS Terminology and Acronyms, Training Objectives, Assessing Training needs, Trade Secret, Record Accessibility</p> <p>Class Exercise: Designing a HazCom Employee Training Program</p>
3	<p>Emergency Planning & Community Right-to-Know Act (EPCRA)</p> <p>Hawaii Right-to-Know Law</p> <p>Class Exercise</p>
4	<p>Releases & Reporting Requirements: Reportable Quantity, Reporting Requirements, Regulatory Agencies, Emergency & Agency Notification Procedures</p> <p>Immediate Reporting Releases, Toxic Chemical Release Form, Fines for Failure to Report</p> <p>Class Exercise</p>
5	<p>Handling Acutely Hazardous Materials: Extremely Hazardous Chemical Lists, Threshold Planning Quantities (TPQ), Risk Management and Prevention Plan, Risk Communication, Community Awareness and Emergency Response Program</p> <p>Class Exercise</p>
6	Exam 1
7	<p>Air Quality: Terminology, Federal Clean Air Act Amendments, Hawaii Regulations on Air Quality</p> <p>Class Exercise</p>
8	<p>Special Topics in Air Quality: Attainment/Non-Attainment Air Pollutants, Asbestos Regulation, Air Quality Problems in Hawaii, Possible Solutions</p> <p>Class Exercise</p>
9	<p>Hazardous Materials Transportation: Hazardous Materials Transportation Act, Historical Background, Major Provisions, Regulatory Agencies, Labeling, Marking, Placarding, Hazardous Material Table</p> <p>Class Exercise</p>

10	Carrier Requirements: Definitions, HazMat Carrier Requirements, Shipping Papers, Loading and Unloading, Segregation and Separation, Exemptions Class Exercise
11	Emergency Response: Reporting Requirements, DOT Form F, Accidental Discharges During Transportation, Technical Assistance and Sources of Help Class Exercise
12	Exam 2
13	Underground Storage Tank Standards: Advantages/Disadvantages of USTs, Historical Background, Terminology, Basic Provisions & Requirements Class Exercise
14	Existing Tanks - Permitting, Monitoring, Upgrading, and Reporting: Definitions, Problems and Potential for Releases, Registration/Upgrading/Monitoring, Limitations of Technology, Financial Responsibility, Reporting Requirements, Corrosion Protection Practices Class Exercise
15	UST Removal and Release Investigation: Legal Requirements for Permanent Closure, Site Assessment, Significance of Contamination, Containment Requirements for New USTs, Independent Testing Organizations Class Exercise
16	Project Presentations
17	Final Exam