

# NEW/MODIFIED/ACTIVATED/INACTIVATED COURSE

Division: School of Technology & Human Services

Date 3/19/99

Course Designator: EHMT 150

Title: Hazardous Waste Management Applications

Same as (other course(s) designator(s), ,

Effective Catalog Year: 1999-2000

Faculty Originator: Robert Evangelista

New Course [ ]

Course Classification Code: ~~I2~~ I3

Course Modification\* [  ]

SAM Classification Code: ~~C~~ B

Inactivate Course [ ]

Activate Course [ ]

Requires Board Approval:

Units of Credit From: To:

Lecture Hours From: To:

Laboratory Hours From: To:

Degree Status From: To:

Prerequisite [ ] (attach change)

Co-requisite [ ] (attach change)

Course Designator: [ ]

From:

To:

Board Approval Not Required:

Course Description [  ]

Grading Basis [ ]

Recommended Preparation [ ]

Other:

Title: [  ]

From: Hazardous Waste Management Applications

To: Waste Management Applications

Rationale for Modification or Activation or Inactivation:

The word "hazardous" has a negative connotation that has been shown, by other community colleges, to influence parents to deter their children from becoming students in the environmental field. Community colleges are changing course titles to more benign names.

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**\*NOTE: Attach new or modified course outline for all course modifications.**

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Division Dean

3/19/99

Date

Vice President for Academic Affairs

Date

Academic Senate Vice President

Date

Instructional Office Use Only:

Approved by:

C & I Sub A

Date: \_\_\_\_\_

C&I Committee

Date: \_\_\_\_\_

Governing Board

Date: \_\_\_\_\_

Catalog Number

Date: \_\_\_\_\_

# SOUTHWESTERN COLLEGE COURSE OUTLINE

Division: School of Technology  
& Human Services

Origination Date: 11/90

Modification Date: 9/98; 3/99

Effective Date: Fall 1999

Course Designator  
and Number

Title

Units

Lec

Lab

Course Designator and Number	Title	Units	Lec	Lab
EHMT 150	<del>Hazardous Waste Management Applications</del> Waste Management Applications	4	3	3

Same as other course(s) designator(s), ,

Grading Basis: Grading Scale; Credit/No Credit option available

Prerequisite:

Co-requisite:

Recommended Preparation: EHMT 100 & Chemistry 100

Course Description & Scope: (50 words or less)

An overview of hazardous waste, air pollution and wastewater regulations for industrial facilities, and abandoned waste sites ~~wastewater effluents, and air emissions~~. Emphasis on generator compliance, site investigation and remediation, permitting, and waste identification ~~and liability is provided~~. The laboratory ~~portion~~ provides hands-on application of ~~proper methods of preparing a~~ hazardous waste manifest preparation, storage containers ~~labeling~~ management, sampling, ~~and analysis~~, and waste compatibility determination. [CSU]

Measurable Course Objectives and Minimum Standards, as Determined by Standards set by the instructor, at 70% Proficiency for a Grade of "C":

1. Student will, through a written exam, identify current statutes and regulations concerning air, water, and soil, and employee and public health/safety.
2. Student will, through a written exam, read and interpret current laws and regulations and the liabilities and penalties for noncompliance.
3. Student will, through a written exam, determine who has regulatory jurisdiction (federal, state, or local agencies).
4. Student will, through a written exam, describe how to make proper contact with regulatory authorities.
5. Student will describe how to make proper contact with information support services.

6. Student will, through a written exam, distinguish between regulations and organizational policies.
7. Student will, through a written exam and/or a laboratory exercise, plan methods and strategies to remain in compliance with regulations.
8. Student will, through a laboratory exercise, demonstrate updating files and maintaining records of material safety data sheets, manifests, and permits.
9. Student will, through a laboratory exercise, demonstrate proper procedures to obtain permits.
10. Student will, through a laboratory exercise, demonstrate methods for identification/classification of hazardous materials/wastes.
11. Student will, through a laboratory exercise, demonstrate proper procedures for inventories and audits of hazardous materials and wastes.
12. Student will, through a laboratory exercise, identify and communicate possible problems and solutions in a hypothetical situation.
13. Student will, through a laboratory exercise, describe the procedures used to handle hazardous materials/wastes in compliance with regulations.
14. Student will, through a laboratory exercise, complete forms necessary for handling hazardous materials/wastes in compliance with regulations.
15. Student will, through a written exam or a laboratory exercise, recommend proper procedures for transportation, storage, handling, and disposal of hazardous materials/wastes.

Core Content to be Covered in all Sections:

1. Approximately 8 % of course  
Regulatory overview
  - A. Hazardous material vs. Hazardous waste  
Hazardous waste characteristics and classification
  - B. Regulatory agencies and jurisdiction
    - Federal, state, regional local
  - C. Key Statutes
  - D. Key Regulations
  - E. Laboratory
    - Determining if a waste is hazardous Jurisdictional conflicts
2. Approximately 8 % of course  
Generator requirements I
  - A. Cradle-to-grave liability
  - B. Storage requirements
  - C. The manifest
  - D. Laboratory
    - Preparation of hazardous waste manifest

3. Approximately 8 % of course  
Generator requirements II
  - A. Hazardous waste minimization
  - B. Fees
  - C. Biannual reporting
  - D. Extremely hazardous waste permits
  - E. Enforcement
  - F. Laboratory
    - Preparation of bi-annual report
    - Preparation of extremely hazardous waste permit
  
4. Approximately 8 % of course  
Generator requirements III
  - A. Clean Water Act
  - B. Porter Cologne
  - C. Waste discharge requirements
  - D. Laboratory
    - Applying for an NDPES permit
    - Waste discharge requirement determination
  
5. Approximately 8 % of course  
Generator requirements IV
  - A. Clean Air Act
  - B. The bubble system
  - C. Local AQMD regulations
  - D. Laboratory
    - Applying for air permits
    - Reporting air quality under AB 2588
  
6. Approximately 8 % of course  
Transportation, treatment, and disposal
  - A. Transport requirements
  - B. Recycling
  - C. Land ban
  - D. Laboratory
    - Oral reports on treatment, recycling, and disposal technology
  
7. Approximately 8 % of course  
Super fund
  - A. CERCLA/SARA overview
  - B. State super fund
  - C. Liability
    - Government and private party
  - D. Release reporting
  - E. Laboratory
    - Release reporting workshop
  
8. Approximately 8 % of course  
Site mitigation
  - A. The "decision tree"
  - B. Preliminary assessments
  - C. Consent orders
  - D. Fees
  - E. Site characterization
  - F. Laboratory
    - Sampling equipment identification
    - Sampling techniques

9. Approximately 8 % of course  
 Sampling and analysis
- A. QA/QC
  - B. Sampling plans
  - C. Analytical methods
  - D. Chain of Custody
  - E. Laboratory
    - Analytical techniques

10. Approximately 8 % of course  
 RI/FS process
- A. Remedial studies
  - B. Feasibility studies
  - C. Risk assessments
  - D. Cleanup standards
  - E. Community relations
  - F. Laboratory
    - Preparing a risk assessment

11. Approximately 8 % of course  
 Special topics
- A. Permitting
  - B. Infectious waste
  - C. Household hazardous waste
  - D. Laboratory
    - Selection of remedial action
    - Mock public hearing

12. Approximately 8 % of course  
 Real estate transactions
- A. Buyer or sell
  - B. Landlord and tenant
  - C. Real estate brokers
  - D. Lenders
  - E. Condemnation
  - F. Due diligence concept
  - G. Laboratory
    - Preparing a Phase I Environmental Audit

13. Approximately \_\_\_\_\_ % of course: Supplemental

NOTE: For Specific Details, see Instructor's Syllabus.

Method of evaluation to determine if objectives have been met by students:  
 (Check all that apply)

Exams:

Essay	<input checked="" type="checkbox"/>	Class Activity	<input type="checkbox"/>	Written Assignments	<input checked="" type="checkbox"/>
Problem Solving Exercise	<input type="checkbox"/>	Skill Demonstration	<input type="checkbox"/>	Lab Activity	<input checked="" type="checkbox"/>
Objective Test	<input checked="" type="checkbox"/>	Oral Assignments	<input checked="" type="checkbox"/>	Quizzes	<input type="checkbox"/>

Other

Instructional Methodology: (Check all that apply)

Lecture	<input checked="" type="checkbox"/>	Demonstration	<input checked="" type="checkbox"/>	Discussion	<input checked="" type="checkbox"/>
Audiovisual	<input checked="" type="checkbox"/>	Individual Assistance	<input checked="" type="checkbox"/>	Group Activity	<input checked="" type="checkbox"/>

Computer Assisted Instruction

Requires a minimum of three (3) hours of work per unit, including class time

Required and Major Optional Reading(s), Including Textbook(s) and Software: (Author-last name, first name. Title. Location: Publisher, Year)

Dufor, J.T. (Editor). Hazardous Waste Management Handbook. California Chamber of Commerce, ~~1998~~ latest edition.