

NEW COURSE PROPOSAL INFORMATION

(Must be submitted for evaluation prior to C & I approval)

Division: **Health & Public Services**

Course Designator: **EHMT 231**

Course Title: **Hazardous Materials Incident Response Operations**

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

Effective Catalog Year: **1999-2000**

I. Curriculum Mix:

A. How does this course fit into the total curricular framework of the college or other departments?

This course fits into the proposed Environmental Management emphasis of the Environmental Technology program.

B. What effect, if any, might this course have on the enrollment in other courses/programs across the college curriculum?

This course will attract three groups of students: 1) high school students identified by LINKS and similar programs; 2) hazardous material and hazardous waste workers who need OSHA 29 CFR 1910.120 certification; and 3) potential employees who need the above certification to become employable.

II. Class Maximum:

A meeting composed of **Robert Evangelista and Charlotte Erdahl**

and held on **9/17/98** established the following maximum class enrollment: 30

III. Fiscal Impact

A. Staffing:

1. Certificated **2.7** lhr

2. Classified

B. Facility Requirements

1. Room(s):

a. Lecture Laboratory Other

b. Presently Available: Yes No

2. Capital Outlay/Equipment

a. Now available in department

b. Estimated cost to acquire: _____

3. Supplies

a. Now available in department

b. Estimated cost to acquire: _____

4. Library/LRC

a. Adequate Library support

b. Adequate LRC support

c. Estimated cost to acquire: _____

We own 2 books on this subject.

Jim Gunn
Dean/Library/LRC

11/16/98
Date

5. Technology Resources (if necessary)

a. Now available

b. Estimated cost to acquire _____

Subcommittee E

Date

Charlotte Erdahl
Instructional Administrator

9/17/98
Date

Jim Gunn
Vice President for Academic Affairs

11/2/98
Date

NEW/MODIFIED/ACTIVATED/INACTIVATED COURSE

Division: Health & Public Services

Date 9/17/98

Course Designator: EHMT 231

Title: Hazardous Materials Incident Response Operations

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

Effective Catalog Year: 1999-2000

Faculty Originator: Robert Evangelista

New Course

Course Classification Code: I3

Course Modification*

SAM Classification Code: C

Inactivate Course

Activate Course

Requires Board Approval:

Units of Credit	From:	To:	Prerequisite <input type="checkbox"/> (attach change)
Lecture Hours	From:	To:	Corequisite <input type="checkbox"/> (attach change)
Laboratory Hours	From:	To:	
Degree Status	From:	To:	Course Designator: <input type="checkbox"/>
			From:
			To:

Board Approval Not Required:

Course Description <input type="checkbox"/>	Title: <input type="checkbox"/>
Grading Basis <input type="checkbox"/>	From:
Recommended Preparation <input type="checkbox"/>	To:
Other:	

Rationale for Modification or Activation or Inactivation:

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


Division Dean

9.17.98
Date

Vice President for Academic Affairs

12/17/98
Date

Academic Senate Vice President

12/17/98
Date

Instructional Office Use Only:

Approved by:

C & I Sub A

Date 11/24/98

C & I Committee

Date 12/17/98

Governing Board

Date 3/10/99

Catalog Number

Date _____

GENERAL INFORMATION

- A. Need for course
The course is needed for the bio-region that Southwestern College's Environmental Technology program serves (Northern Baja, South Bay, and Metro San Diego). The needs are to make high school students over the age of eighteen and unskilled workers instantly employable in the environmental field. The course is also needed to allow military personnel and private employees to accept a new job assignment in areas where they would be exposed to hazardous waste and hazardous materials.
- B. Specific student population for whom this course is designed
This course is designed for three specific student populations: 1) high school students identified by LINKS and similar programs; 2) hazardous material and hazardous waste workers who need OSHA 29 CFR 1910.120 certification; and 3) potential employees who need the above certification to become employable.
- C. Parallel courses offered elsewhere in: **(MUST BE COMPLETED)**
- | | | |
|--|---|--|
| (a) Community Colleges | | |
| Course Title | College | |
| ENVT 230, Safety & Emergency Response | Cuyamaca College | |
| (b) Four-Year Institutions | | |
| Course Title | College/University | |
| EHMT 10, Safety & Emergency Response | California State University, Bakersfield | |
| HAZWOPER Training | San Diego State Univ. Conversion Center | |
| Hazardous Mtrls. Incident Response Oper. | Univer. Of California at San Diego, Extension | |
- For vocational courses only:
Recommended by Advisory Committee: Yes No
- D. Scheduling Characteristics:
Fall Spring Variable
- E. Check One: Degree applicable Non Degree applicable
- F. Course Challengeable by Exam: Yes No
If no, rationale: **Performance is also measured in laboratory exercises**
- G. Graduation Requirements
Recommended for:
- | | |
|--|--------------------------|
| 1. Plan A--General Education Requirements for the Associate Degree Under | <input type="checkbox"/> |
| 2. Plan B--General Education Breadth Requirements, California State University Under | <input type="checkbox"/> |
| 3. IGETC UC/CSU General Education Breadth Requirements, University of California Under | <input type="checkbox"/> |
- H. Transferability
- | | |
|---|-------------------------------------|
| 1. Recommended for California State University (course number must be three digits) | <input checked="" type="checkbox"/> |
| 2. Recommended for University of California (course number must be three digits) | <input checked="" type="checkbox"/> |
| 3. Non Transferable (course number must be two digits) | <input type="checkbox"/> |
| 4. 295 Course Transferable <input type="checkbox"/> Non Transferable <input type="checkbox"/> | |
- I. FSA (Faculty Service Area Number) 029

SOUTHWESTERN COLLEGE

COURSE OUTLINE

Division: **Health & Public Services**

Origination Date: **9/98**

Modification Date:

Effective Date: **Fall 1999**

Course Designator
and Number

Title

Units

Lec

Lab

**EHMT 231 Hazardous Materials Incident Response
Operations**

2

1.5

1.5

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

Grading Basis: **Grading scale; Credit/No Credit option available**

Prerequisite:

Corequisite:

Recommended Preparation:

Course Description & Scope: (50 words or less)

This course provides basic information needed to meet the requirements of 29 CFR 1910.120, Hazardous Waste Operations, and Emergency Response (HAZWOPER). It is designed for all occupations where workers may be exposed to hazardous waste or materials, or may respond to an accident involving hazardous materials. [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 demonstrate knowledge, through written assignments, in hazardous waste and hazardous material operations, personnel health and safety procedures, and the operation of field monitoring equipment.**
- 2. Student will, through written assessments, identify methods and procedures for recognizing, evaluating, and controlling hazardous substances.**
- 3. Student will, through written assessment, identify concepts, principles, and guidelines to properly protect site or response personnel.**
- 4. Student will, through class activity and written assessment, discuss regulations and action levels to ensure health and safety of the workers.**
- 5. Student will, through activity and written assessment, discuss fundamentals needed to develop organizational structure and standard operating procedures.**

6. Student will, through class activity and written assessment, select and use dermal respiratory equipment.
7. Student will, through class activity and written assessment, demonstrate the use, calibration, and limitations of direct-reading air monitoring instruments.

Core Content to be Covered in all Sections:

1. Approximate 4 % of course
Course orientation/introduction
2. Approximate 4 % of course
Introduction to 29 CFR 1910.120, Hazardous Waste Operation and Emergency Response
3. Approximate 4 % of course
Hazard recognition
4. Approximate 4 % of course
Air Monitoring Instruments I
5. Approximate 4 % of course
Air Monitoring Instruments II
6. Approximate 5 % of course
Toxicology and exposure guidelines
7. Approximate 5 % of course
Respiratory protection: air purifying respirators
8. Approximate 5 % of course
Respiratory protection: supplied air respirators
9. Approximate 5 % of course
Levels of protection and chemical protective clothing
10. Approximate 10 % of course
Site entry and reconnaissance
11. Approximate 5 % of course
Radiation survey instruments
12. Approximate 5 % of course
Decontamination
13. Approximate 20 % of course
Response organization

14. Approximate 20 % of course
Field and/or tabletop exercises and/or case studies; assessment

15. Approximate ___% 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 type="checkbox"/>	Class Activity	<input checked="" type="checkbox"/>	Written Assignments	<input type="checkbox"/>
Problem Solving Exercise	<input checked="" type="checkbox"/>	Skill Demonstration	<input checked="" 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	<input type="checkbox"/>				

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)

Hazardous Materials Incident Response Operations. U.S. Environmental Protection Agency, Office of Emergency & Emergency Response. Office of Emergency and Remedial Response, Environmental Response Team, 9285.9-14B, EPA/540/R-95/067, PB95-963244, or latest edition

CHECKLIST FOR CLASSIFICATION

Course: EHMT 231

Degree Credit

Non Degree Credit

Title: Hazardous Materials Incident Response Operations

		Documentation		Signatures	
GRADE	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Culminates in a formal grade based on uniform standard 55002a6	Course Proposal	<input type="checkbox"/> Yes <input type="checkbox"/> No Culminates in a formal grade based on uniform standard 55002c4	Faculty Reviewer: <u>Robert Engleke</u> Date: <u>9/17/98</u> Approved: <input checked="" type="checkbox"/> Disapproved: <input type="checkbox"/>	
PRE/CO-REQUISITES	<input checked="" type="checkbox"/> Language & computation or other entrance skills, if needed, are sufficient for enrollment in Associate Degree level courses 55002a9 <input type="checkbox"/> Not Required	Pre- or Co-requisites developed by advisory committee, articulation agreement, sequential course or student data available.		Instructional Administrator: <u>Charles A. Ewald</u> Date: <u>9/17/98</u> Approved: <input checked="" type="checkbox"/> Disapproved: <input type="checkbox"/>	
OUTLINE Objectives Scope Content	<input checked="" type="checkbox"/> Common to all students 55002a4 <input checked="" type="checkbox"/> Covered by 55805.5a-a <input type="checkbox"/> Transfer <input type="checkbox"/> Non-baccalaureate occupational major <input type="checkbox"/> If English: 1 level below Engl 115 or less <input type="checkbox"/> If Math: Algebra or above <input type="checkbox"/> Equivalent English or Math 550805.5 <input type="checkbox"/> Introduces students to the key concept and methods of a discipline (55002a12 "College Level")	Course Proposal	<input type="checkbox"/> Common to all students 5502b4 <input type="checkbox"/> Prepares students to succeed in types of courses in 55805.5 <input type="checkbox"/> OR <input type="checkbox"/> One of a sequenced series of course with final objective being the acquisition of such skills <input type="checkbox"/> OR <input type="checkbox"/> A special class that facilitates measurable progress toward an educational goal 55030c <input type="checkbox"/> OR <input type="checkbox"/> Prepares students for non-college oriented occupation <input type="checkbox"/> None of the above	C & I Subcommittee A: Date: <u>10/4/98</u> Approved: <input checked="" type="checkbox"/> Disapproved: <input type="checkbox"/>	
QUALITY OF ASSIGNMENTS	<input checked="" type="checkbox"/> Appropriate college level educational materials 55002a 11 & 12 <input checked="" type="checkbox"/> Critical Thinking: Requires analysis, synthesis, evaluation &/or problem solving 55002a10. <input type="checkbox"/> Scope & intensity of work requires independent study outside of class 55002a7 <input type="checkbox"/> Requires a minimum of 3 Hrs. of work per week, including class time, per unit of credit 55002a6	Measurable objectives and/or method of evaluation contained in the course outline. Syllabus and/or course outlines	<input type="checkbox"/> Measures student performance in terms of stated objective. <input type="checkbox"/> Specifies amount of student work that must be completed per unit of credit earned 55002b6	C & I Committee: Date: <u>12/17/98</u> Approved: <input checked="" type="checkbox"/> Disapproved: <input type="checkbox"/>	
QUANTITY OF ASSIGNMENTS	<input checked="" type="checkbox"/> Appropriate college level educational materials 55002a 11 & 12 <input checked="" type="checkbox"/> Critical Thinking: Requires analysis, synthesis, evaluation &/or problem solving 55002a10. <input type="checkbox"/> Scope & intensity of work requires independent study outside of class 55002a7 <input type="checkbox"/> Requires a minimum of 3 Hrs. of work per week, including class time, per unit of credit 55002a6	Measurable objectives and/or method of evaluation contained in the course outline. Syllabus and/or course outlines	<input type="checkbox"/> Measures student performance in terms of stated objective. <input type="checkbox"/> Specifies amount of student work that must be completed per unit of credit earned 55002b6	Vice President for Academic Affairs: Date: <u>12/17/98</u> Approved: <input checked="" type="checkbox"/> Disapproved: <input type="checkbox"/>	
REPEATABILITY	<input checked="" type="checkbox"/> Repeatable only under: 51000, 55761-3, 56044, 58161, 55002a13	College policy stated in Catalog	<input type="checkbox"/> Repeatable only under: 51000, 55761-3, 56044, 58161, 55002b8	Academic Council President: Date: <u>12/17/98</u> Approved: <input checked="" type="checkbox"/> Disapproved: <input type="checkbox"/>	
		OFFICE USE ONLY:		Approved by Governing Board: _____ Date: <u>2/10/99</u> Mailed to Chancellor's Office _____ Date: _____ Approved by Chancellor's Office _____ Date: _____	

COMMENTS ON BACK