

FIRE 77 Course Outline as of Fall 1998

CATALOG INFORMATION

Dept and Nbr: FIRE 77

Title: HAZMAT FOR PUBSAF

Full Title: Hazardous Materials for Public Safety

Last Reviewed: 9/25/2017

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	1	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: FIRE399.61

Catalog Description:
A comprehensive study of Hazardous Materials, and emergency response to Haz Mat incidents. Includes basic Haz Mat chemistry, regulation, toxicology, tactics and strategy of mitigation, decontamination, and scene management. Students will receive a certificate in Incident Commander, and First Responder Operations Decon from CSTI. This course is POST Certified.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:
Description: A comprehensive study of Hazardous Materials and emergency response to Hazmat incidents. Students will receive certificates in Incident Commander, and First Responder Operations Decon from CSTI. This course is POST Certified. (Grade Only)
Prerequisites/Corequisites:
Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:
IGETC:	Transfer Area	Effective:	Inactive:
CSU Transfer:	Transferable	Effective: Fall 1998	Inactive:
UC Transfer:		Effective:	Inactive:

CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

1. List DOT Hazard Classifications.
2. Interpret the placard and labeling systems.
3. Identify basic physical & chemical properties of Hazard Classes.
4. Define the need for scene isolation, stabilization and scene control.
5. Identify various methods of chemical ID and incident mitigation relative to the danger of the chemicals.
6. Identify methods or evacuation procedures.
7. Identify health dangers of the chemical classes.
8. Demonstrate principles of decontamination.
9. Identify federal & state laws and regulations.
10. List the recording and reporting systems associated with Hazmat.

Topics and Scope:

1. Introduction.
 - A. Define Hazmat as it pertains to an emergency response.
 - B. List agencies that are responsible for containment, and cleanup.
2. Review of basic chemistry and physics.
 - A. List properties of commonly found hazardous materials that are transported by air, land, and sea.
3. Special considerations.
 - A. Identify flammable and combustible liquids.
 - B. Identify compressed gases.
 - C. Identify flammable solids.
 - D. Identify oxidizing agents.
 - E. Identify significant poisons.
 - F. Identify radioactive materials.
4. Scene management

A. Define and identify ICS for hazmat incidents.

Assignment:

1. Analyze typical HazMat incidents.
2. Explain in writing key aspects & physical properties of each hazard classifications.
3. Analyze, compare and apply laws & regulations applicable to emergency response.
4. Complete a Technical Report.
5. Describe in writing HazMat response policy & plan from an emergency response agency.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework

Writing
10 - 30%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes

Problem solving
20 - 40%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances

Skill Demonstrations
5 - 20%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice

Exams
25 - 45%

Other: Includes any assessment tools that do not logically fit into the above categories.

None

Other Category
0 - 0%

Representative Textbooks and Materials:

Hazardous Materials Incident Commander, Publ. CSTI.

DOT - Emergency Response Guide; Dept. of Transportation, 2000 Edit.