

Course Outline

COURSE: JFT 18B **DIVISION:** 50 **ALSO LISTED AS:**

TERM EFFECTIVE: Spring 2019 **CURRICULUM APPROVAL DATE:** 05/14/2018

SHORT TITLE: HAZ MAT TECHNICIAN 1B

LONG TITLE: Haz Mat Technician 1B - Applied Chemistry-Field ID of Chem

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
1	18	Lecture:	.77	13.86
		Lab:	1.46	26.28
		Other:	0	0
		Total:	2.23	40.14
		Total Learning Hrs:	67.86	

COURSE DESCRIPTION:

Designed for hazardous materials emergency responders. Emphasizes application of topics learned in Hazardous Materials 1A. Includes the use of field monitoring and detection devices, sample collection of equipment, and field identification procedures for verifying identifying and classifying unknown chemicals. **PREREQUISITE:** JFT 18A, 1. State Fire Marshall certified basic firefighting academy diploma or equivalent as determined by the Dean of Academy Instruction. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. 2. Prior to beginning this course students must already be familiar with, and be able to demonstrate all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced officer training that builds upon them. These minimum knowledge and skill levels are regarding: Knowledge of Hazardous Materials, Familiarity with Fire Safety, Knowledge of Personal Protective Equipment, Familiarity with SCBA

PREREQUISITES:

Completion of JFT 18A, as UG, with a grade of C or better.

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES

P - Pass/No Pass

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

- 02 - Lecture and/or discussion
- 03 - Lecture/Laboratory
- 04 - Laboratory/Studio/Activity

STUDENT LEARNING OUTCOMES:

1. Identify and classify HazMat materials utilizing appropriate detection devices and sample collection equipment.

Measure of assessment: Skills Demonstration, In-class activity

Year assessed, or planned year of assessment: 2018

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS

Curriculum Approval Date: 05/14/2018

Lecture Content:

1. Chemistry of Hazardous Material

A. Field Monitoring

B. Detection Devices

C. Sample Collection Equipment

D. Breakdown

E. Technical Referencing

F. Wet Chemistry

G. Toxicology

Lab Content:

1. Field Testing

A. Procedures for Identifying and Classifying Unknown Materials

2. Personal Protection

A. Safety

B. Personal Protective Equipment

3. Technical Foundation

A. Operational Strategies

B. Exposure

METHODS OF INSTRUCTION:

Lecture, discussion and demonstrations will serve as the medium of instruction. Audio-visual aids will be utilized as they facilitate meaningful instruction. Individual guidance will be provided as required.

OUT OF CLASS ASSIGNMENTS:

Writing:

List sample collection equipment used for identifying Hazardous Materials.

Required Outside Hours:

Assignment Description:

Reading:

Review procedures for identifying and classifying unknown materials.

Required Outside Hours:

Assignment Description:

Out of Class:

Practice proper safety precautions for working around chemicals.

METHODS OF EVALUATION:

Skill demonstrations

Skills Exam: Collect, identify, and classify Hazardous Materials

Objective examinations

REPRESENTATIVE TEXTBOOKS:

Recommended Representative Textbooks

Instructor Handouts. Instructor,2018.

Reading Level of Text, Grade: 12 Verified by: Doug Achterman

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 199870

UC TRANSFER:

Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: Y

Noncredit Category: Y

Cooperative Education:

Program Status: 1 Program Applicable

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department: JFT

CSU Crosswalk Course Number: 18B

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: C

Maximum Hours:

Minimum Hours:

Course Control Number: CCC000144947

Sports/Physical Education Course: N

Taxonomy of Program: 213300