

### Course Outline

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

**TERM EFFECTIVE:** Spring 2013                      **Inactive Course**

**SHORT TITLE:** HAZ MAT TECH 1C

**LONG TITLE:** Haz Mat Technician 1C - Incident Considerations

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
1	1	Lecture:	40	40
		Lab:	0	0
		Other:	0	0
		Total:	40	40

#### **COURSE DESCRIPTION:**

This course is designed for hazardous materials emergency responders. It provides an introduction to the Haz Mat Incident Command System, concepts associated with haz mat response activities, and an in depth study of incident specific considerations influencing haz mat emergencies. Students are introduced to site planning, contingency planning, protective action options, and meteorological considerations.

**PREREQUISITE:** Hazardous Materials 1A (JFT 18A), Hazardous Materials 1B (JFT 18B) **ADVISORY:** Eligible for English 250 and English 420.

**PREREQUISITES:**

**COREQUISITES:**

**CREDIT STATUS:** D - Credit - Degree Applicable

**GRADING MODES**

L - Standard Letter Grade

**REPEATABILITY:** N - Course may not be repeated

**SCHEDULE TYPES:**

02 - Lecture and/or discussion

#### **STUDENT LEARNING OUTCOMES:**

1. Utilize various hazardous materials reference sources to get information about chemical hazards, safety precautions and mitigation techniques.

2. Recognize protective action concepts, with an emphasis on evacuation and shelter-in-place.
3. Identify the types and levels of chemical protective clothing, describe the protection provided by each, and describe how to elect the proper clothing for specific hazardous materials.
4. Recognize basic ICS concepts as they apply to hazardous materials incidents, the structure of the ICS organization and standard ICS forms and terminology.
5. Identify the duties and responsibilities of the positions within the Haz Mat ICS organization.
6. Identify the three control zones to be established at a hazardous materials incident.
7. Develop a Site Safety Plan and identify the key points that should be made in a safety briefing prior to entry.
8. Identify various non-bulk and intermediate bulk packaging, the types of material they contain, basic design and construction features, and some of the marking requirements.
9. Describe types, construction features, markings, fittings, materials transported, and techniques for handling incidents involving intermodal tank containers, highway tankers, rail cars, maritime vessels and aircraft.
10. Describe how to mitigate pipeline incidents.
11. Identify some of the hazardous chemicals used in illegal drug manufacturing operations, warning signs indicating the presence of a drug lab, and appropriate safety and tactical considerations to take at the scene of a clandestine drug lab.
12. Identify storage tanks found at fixed facilities, the types of materials they may contain, the types of damage they could incur, and how to manage an incident at a fixed facility.
13. Recognize some of the laws and regulations pertaining to hazardous materials, potential areas of liability in handling haz mat incidents, and guidelines to minimize liability.
14. Identify some of the key components of a hazardous materials area plan.
15. Identify the components of an effective incident termination.

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

Inactive Course: 09/24/2012

1 WK 40 HRS Emphasis of this course is on how to manage a hazardous materials incident and the consideration applicable to various types of incidents. It takes response personnel through the entire process including researching hazardous materials data, initiating protective actions, choosing chemical protective clothing, implementing the Incident Command System, and terminating the incident. It

provides an overview of specific types of incidents, containers, chemical transport vehicles and mechanisms, and applicable laws and regulations. Regular assignments will be made for out-of-class study and research. Student will be required to do selected readings, writing and test preparation homework.

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.

**REPRESENTATIVE TEXTBOOKS:**

Required: Hazardous Materials 1C - Incident Considerations  
Manual

Hazardous Materials 1C - Incident Considerations  
Workbook

Reading level determined to be: 12th + grade level

**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: I

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: 18C

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: Y

Occupational Course: C

Maximum Hours:

Minimum Hours:

Course Control Number: CCC000208935

Sports/Physical Education Course: N

Taxonomy of Program: 213300