

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer Course X A.A. Degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: Fire 176 Fire Command 1B

UNIT VALUE: 2

MINIMUM NUMBER OF SEMESTER HOURS: 2

BASIC SKILLS REQUIREMENTS:

Appropriate language skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

A descriptive analysis in tactics and strategies and scene management principles for incidents involving hazardous materials. Emphasizes identification and hazard mitigation, decontamination, protective clothing, environmental concerns, and legal issues.

SPECIFIC COURSE OBJECTIVES:

Upon completion of the course, students will be able to:

1. Identify hazardous materials by placard, product name and/or number, container shade or labeling.
2. Identify safety procedures involving the firefighter and hazardous materials.
3. Interpret laws and regulations involved in manufacture, shipment, storage and usage of hazardous materials.
4. Select the correct containment methods to isolate and control materials.
5. Identify correct procedures for isolation and evacuation.
6. Solve problems through simulation to safely select proper objectives, notify appropriate agencies, and coordinate resources of firefighting personnel.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Scope of Command 1B Hazardous Materials in the Fire Service
 - A. Incident histories
 - B. Fire service involvement
 - C. "Classic mistakes"
- II. Department of Transportation Placarding and Hazard classes
 - A. Placarding system
 - B. NFPA 704 I Identification system
 - C. Table 1 and Table 2 commodity
- III. Shipping Papers
 - A. Title 49 Code of Federal Regulations
 - B. Bills of lading
 - C. Way bill or consist
 - D. Air bills
 - E. Dangerous cargo manifest
 - F. Alternative ways to identify products
- IV. Identification of product by container shape
 - A. Gases
 - B. Bulk
 - C. Liquids
- V. Safety
 - A. Initial company actions
 - B. Setting priorities
 - C. Preventing emergencies from becoming disasters
- VI. Department of Transportation Guidebook
 - A. Procedural manual to identify specific hazards and actions to accomplish
- VII. Legislation and Liability
- VIII. Coordinating Resources
- IX. Hazardous Materials Checklist Regarding Containment and Control of Leaks, Spills, and Fires
- X. Diking, Stealing, Containment
- XI. Pre-Planning
- XII. Poisons
- XIII. Decontamination
- XIV. Objective Setting and Decision Making
- XV. Evacuation

XVI. Incident Command System (ICS) and Command Post

XVII. Simulation Exercise

- A. Simulated emergencies requiring students to set objectives determining tactics, coordinate, and control resources
- B. All hazard classes utilized
- C. Peer and instructor critiques

REQUIRED READING:

Department of Transportation. Chart 8. State of California: Publications Office, 1989.

Department of Transportation. Hazardous Materials, Placards and Labeling. State of California, 1982.

SUGGESTED READING:

Title 24, California Administrative Code. State of CA: Publications Office, 1989.

Title 49, U.S. Code of Federal Regulations. U.S. Government: Printing Office, 1989.

REQUIRED WRITING:

Case study including interpretation of a hazardous material incident and selection and control objectives as identified through course presentation; eight-ten pages for a representative work.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

Reading assignments are from the texts covering 300-500 pages. Four to six hours per week required.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply:

Television Course (Video one-way, e.g. ITV, video cassette, etc.)

- _____ Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- _____ Two-Way Video Conferencing (Two-way interactive video and audio)
- _____ One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- _____ Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

- 30% Quizzes
- 20% Assignment, term paper
- 50% Final exam

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes _____ No X Number of times course may be taken for credit: None

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

CONTACT PERSON: Brett Vanwey *1703

SIGNATURES ON FILE