

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 180 Fire Prevention 1A

UNIT VALUE: 2

MINIMUM NUMBER OF SEMESTER HOURS: 40

BASIC SKILLS REQUIREMENTS:

Appropriate language skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE: Includes general fire inspection practices and responsibilities of fire prevention personnel. Essential equipment of code enforcement and procedures for correcting fire hazards. Fire extinguishers, fixed systems, and determination of operational readiness of these systems.

SPECIFIC COURSE OBJECTIVES:

The student will be able to:

1. Identify the legal responsibilities of fire inspectors, including a basic understanding of the authority to inspect, code enforcement, and fire investigation procedures.
2. Explain hazards common to the use and storage of flammable and combustible liquids, and demonstrate how to correct safety and code violations dealing with these materials.
3. Discuss common examples of such hazardous material classifications as oxidizers, compressed and liquefied gases, corrosives, radioactive materials, and unstable and reactive materials; and will know general guidelines for their safe storage, use, and transfer.
4. Analyze basic principles of portable fire extinguisher and fixed fire extinguishing systems.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Legal Aspects of Fire Prevention
 - A. Fire Inspection Practices
 - B. Agencies and Authorities Having Jurisdiction in Fire and Life Safety Matters
 - C. Responsibilities of and Equipment Needs for Fire Inspectors
 - D. Fire Inspector's Authority and Empowerment
 - E. Methods of Determining Fire Cause

- II. Flammable and Combustible Liquids
 - A. Classification Flammable and Combustible Liquids
 - B. Physical Properties of Flammable/Combustible Liquids
 - C. Physical Properties Inherent to Fire Hazard
 - D. Controlling Ignition Sources and Explosive Atmospheres
 - E. Requirements for Approved Containers for Flammable/Combustible Liquid Storage
 - F. Hazards of Transferring Flammable/Combustible Liquids
 - G. Proper Storage of Flammable/Combustible Liquids
 - H. Techniques of Extinguishing Flammable/Combustible Liquids

- III. Other Hazardous Materials
 - A. Properties of Compressed, Cryogenic and Liquified Gases
 - B. Corrosives
 - C. Toxic Materials
 - D. Reactive Materials
 - E. Unstable Materials
 - F. Common Oxidizers
 - G. Radioactive Materials

- IV. Explosives
 - A. Classifications of Explosives
 - B. Hazards of Explosives and Fireworks
 - C. Sources for Technical Information

- V. Miscellaneous Fire Prevention Problems
 - A. Fire and Explosive Characteristics of Combustible Dusts
 - B. Combustibility of Certain Metals
 - C. Hazards of Various Types of Plastic

- VI. Portable Fire Extinguisher and Fixed Extinguishing Systems
 - A. Types of portable fire extinguishers
 - B. Requirements for number and location of portable extinguishers
 - C. Determining the operational readiness of a portable fire extinguisher
 - D. Principles of fixed fire extinguishing systems
 - E. Methods of determining the operational readiness of fixed fire extinguishing systems

REQUIRED READING:

California State Fire Marshal. Fire Prevention 1A, Student Manual. Sacramento, CA: CFSTES, 1984.

SUGGESTED READING:

Kote, Arthur, Ed. National Fire Protection Association Handbook. 17th edition. Quincy, MA: NFPA, 1991.

REQUIRED WRITING:

A 4-6 page paper will be assigned. The student will research fire prevention topical information and how that topic relates to fire safety. Critical thinking and possible solutions to fire prevention problems will be required 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.

Students will be required to read required and recommended text and prepare for examinations.

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% Term Paper
- 50% Final Exam

Note: A minimum of 70% is required for state board of fire service certification.

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

Yes ___ No X Number of times course may be taken for credit: 1

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