

**Chemeketa Community College**

4000 Lancaster Drive NE

PO Box 14007

Salem, Oregon 97309

**Course Outline**

**Course Identification**                      FRP150                      **Credits**                      3                      **Date**                      11/04

**Course Title:**                      Introduction to Fire Protection

**Total Instructional Hours, for Course, per Term:**

<u>33</u>	Lecture Hours	=	<u>3</u>	Credits(s)
<u>0</u>	Laboratory Hours	=	<u>0</u>	Credits(s)

**Prerequisite Course(s):**

None

**Required Text(s):**

None

**Course Description:**

Introduces the philosophy and history of fire protection. Covers the history of loss of life and property in fire; responsibilities of fire departments in a community; organization and function of fire protection agencies and allied organizations; sources of professional literature; survey of professional career opportunities and requirements; and development of a resume.

**Performance Based Learner Outcomes:**

Upon successful completion of the course, students should be able to:

1. List major events in human's association with fire.
2. Describe the historical evolution of fire protection.
3. Explain the organizational structure and purposes of fire departments.
4. Differentiate between line and staff functions.
5. Describe the function of standard operating procedures (SOP's) and rules and regulations.
6. Identify the purpose of the various divisions as they relate to fire department operations.
7. Explain the fire tetrahedron.
8. With relation to fire:
  - a. Describe the phases of burning.
  - b. Explain how fire spreads.
  - c. List the products of combustion.
  - d. Identify the classes of fire.
9. Identify various types of apparatus and equipment and the function of each.
10. Identify the purpose and explain functioning of detection and protection systems.
11. Describe the role of national agencies and organizations with regard to emergency response/prevention.
12. Explain how various regional and state organizations impact the fire service.
13. Describe the fire service entrance and promotional process.
14. Prepare a resume that meets fire protection hiring qualifications.

**Course Content Outline:**

- I. History Use and Control of Fire
  - A. Human's association with fire
  - B. History and evolution of fire protection
- II. Fire Department Organization and Operation
  - A. Organizational structure and purpose of fire departments
  - B. Staff and line positions
  - C. SOP's and rules regulations
- III. Fire Behavior
  - A. Fire tetrahedron
  - B. Burning phases, fire spread, reflex time, products of combustion, classes of fire
- VI. Apparatus, Equipment, and Detection/Protection Systems
  - A. Type and function of apparatus
  - B. Purpose and function of detection/protection systems
- V. National, Regional and State Agencies and Organizations
  - A. Role of national agencies and organizations
  - B. Regional and state agencies and organizations
- VI. Fire Service Career
  - A. Entrance and promotional process
  - B. Resume preparation