

**VALLEY ROP in partnership with U.S. FOREST SERVICE
COURSE FACTSHEET**

Course: **Introduction to Fire Technology**
 (Fall Semester)
 (Located at Reedley High School)
 (180 clock hours, 10 credits per semester)

Prerequisites:

- Students must be of senior status
- Must have at least a 2.0 GPA
- Must complete documentation relative to traveling students
- Completion of this course will fulfill the prerequisite requirement of the Wildland Fire Science class

Description:

This course introduces students to fire protection, career opportunities in fire protection and related fields, philosophy and history of fire protection, and fire loss analysis. Students will research the organization and function of public and private fire protection services, fire departments as a part of local government, laws and regulations affecting the fire service, and fire service nomenclature. It covers basic fire chemistry and physics.

Course Outcomes:

- Describe educational requirements, duties, and information sources for various occupations in fire protection.
- Identify the basic components of fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread and behavior.
- Identify the effects of fire on the environment and the historical efforts made to protect society.
- Identify the major organizations that contribute to fire protection.
- Define and describe the purpose and scope of fire departments.
- Identify the types of common fire department apparatus, equipment, and personal safety equipment used for firefighting.
- Identify the various codes, standards, ordinances, and regulations that affect fire protection.
- Identify the various types of public and private fire protection equipment and system.
- Define the common elements of a fire prevention bureau.
- Define fire fighting strategy and tactics.
- Describe the basic elements of fire fighter safety and survival.
- Demonstrate competency in the fundamentals of fire service and fire protection through project-based achievements.

Projects:

Community projects have been developed with business and community partners and will be completed by the students during the semester. Projects include job shadowing in various fire protection agencies and conducting fire loss analysis.