

# YOSEMITE REGIONAL OCCUPATIONAL PROGRAM

## INTRODUCTION TO FIRE PROTECTION

CBEDS CODES: 5833

JOB TITLES

DOT NO.

### **Course Description:**

Provide students with an overview of fire protection thus enabling the student to acquire entry-level knowledge along with some job shadowing experience.

COURSE NUMBER: 750

DURATION: One Semester/18 Weeks

CREDIT: 10 Units

RECOMMENDED GRADE LEVEL: 12 (18 Years old) and Adults

MEETS GRADUATION REQUIREMENTS: Practical Arts

MEETS UC AND CSU ENTRANCE REQUIREMENTS: No

REQUIRED FOR GRADUATION: No

ABILITY LEVEL: Unsectioned

CREDENTIAL REQUIREMENTS:

REPLACES:

Recommended Prerequisites: Chemistry

Date Matched Against State Framework,  
Model Curriculum Standards, and State  
Curriculum Guides:

October 2013

Board Approved:

REVIEW CYCLE: 2008-09

REQUIRED TEXTBOOK (Title, publisher, year): Introduction to Fire Protection, 2<sup>nd</sup> Edition, Robert Klinoff,  
Thomson Delmar Learning, 2003

## INSTRUCTIONAL MATERIALS

### Basic Text:

Introduction to Fire Protection, 2<sup>nd</sup> Edition, Robert Klinoff, Thomson Delmar Learning, 2003

### Supplementary Text(s):

Essentials of Fire Fighting 4<sup>th</sup> Edition, (International Fire Service Training Association), 1998  
ISBN: 0-87939-149-9

Red Cross First Aid

Red Cross CPR

### Video:

Essentials of Fire Fighting, 4<sup>th</sup> Edition, Fire Protection Publications

## SUMMARY OF MAJOR UNITS OF INSTRUCTION

<u>Units</u>	<u>Approximate Length of Instruction for Each Unit (Weeks)</u>
1. History of Fire Protection	.5
2. Fire Losses	.5
3. Public Fire Protection Services	1.5
4. Private Fire Protection Services	1.5
5. Fire Protection Functions	3*
6. Fire Protection Systems and Equipment	3*
7. Emergency Incident Management	3*
8. Emergency Operations	3*
9. Fire Protection Career Opportunities	1
10. Career Development	<u>1</u>
<i>*Reinforced during on-the-job training</i>	
Total Weeks	18

**Instructional Content**

Instruction will include:

**Student Outcomes**

At the end of instruction, the student will be able to:

**Hours**CL=Classroom  
CC=Comm. Class.

Instructional Content	Student Outcomes	Anchor/CR	CTE PS	CL	CC
1. Provide students with an overview of the fire protection industry.	<b>GOAL: The student will understand the scope of fire protection history.</b> A. Evolution and development of North America Fire Protection B. Early fire protection efforts world-wide C. Evolution of equipment D. Evolution of fire stations	1	B6.2 B8.1		
2. To provide students with information about fire losses.	<b>GOAL: The student will study fire losses and how they are reported.</b> A. Life and property world-wide B. Life and property in the USA C. Analysis of fire losses D. Reporting methods	2.4 2.5 5.2 7.2 8.2 10.1 10.2 11.0 CR 1 and 11	B8.2 B8.0		
3. To provide the student with a basic understanding of public fire protection services.	<b>GOAL: The student will be able to identify public fire protection vs. private protection.</b> A. Types of organizations 1. Federal 2. State 3. Local B. Purpose and scope of fire agencies C. Fire defense planning D. Risk management E. Advisory and regulatory agencies F. Mutual aid G. Automatic aid H. Contract/JPA agreements	7.0-7.8 9.4 9.5 10.1 10.2 CR 5 and 12	B2.0-B.27 B4.4 B6.1 B6.0		
4. To provide students with a basic understanding of private fire protection services.	<b>GOAL: The student will define what is meant by private services.</b> A. Support organizations B. National and international organizations C. Advisory & regulatory agencies D. Fire suppression organizations E. Proprietary services	7.0-7.8 9.4 9.5 10.1 10.2 CR 5 and 12	B2.0-B.27 B4.4 B6.1 B6.0		
5. To provide students with a basic understanding of fire protection functions.	<b>GOAL: The student will be able to distinguish the various fire protection functions.</b> A. Fire prevention 1. Public education 2. Fire prevention inspection 3. Building design and codes 4. Legal authority 5. Fire cause determination 6. Fire incident reporting	8.0-8.7 7.7 10.2 8.6 6.6 CR 5,7, and 12	B8.8 B7.5		

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5. <i>To provide students with a basic understanding of fire protection functions. (Continued)</i>	B. Fire Suppression 1. Fire department organization 2. Fire department operations 3. Fire department equipment 4. Staffing requirements 5. Tactics and strategies 6. Water supplies and sprinkler systems C. Fire Department Administration 1. Principles of command 2. Management 3. Communications D. Training 1. Purpose 2. Importance 3. Required training 4. Skill maintenance 5. Standard operating procedures 6. Relationship of training to incidents	Anchor/ CR 9.1 9.4 9.1-9.2 9.3 2.3 2.6 6.1 6.2 6.3 CR 1,5,7,6,9	CTE B1.4 B2.0-B2.7 B8.1 B8.4 B3.0-B3.10 B1.0 B1.5 B5.0-B5.5	CL	CC
6. <i>To provide students with a basic understanding of fire protection systems and equipment.</i>	<b>GOAL: The student will be able to define the following:</b> A. Public water companies B. Private water companies C. Water supply systems D. Extinguishing agents E. Extinguishing systems	5.0 10.1 CR 1 and 7	B8.3-B8.4		
7. <i>To provide students with information about emergency incident management.</i>	<b>GOAL: Students will be able to explain the following:</b> A. Management responsibility B. Incident command system	9.1-9.3 9.6 9.7 CR 2, 7 and 8	B3.0-B3.2 B2.0-B2.7		
8. <i>To provide students with a basic understanding of the general duties and responsibilities in emergency situations.</i>	<b>GOAL: Student will be able to explain the components of and differences between emergency operations.</b> A. Structure firefighting B. Wild land firefighting C. Hazardous materials incident 1. First responder awareness D. Weapons of mass destruction E. Emergency medical services 1. Red Cross first aid 2. Red Cross C.P.R.	5.1-5.4 6.0-6.7 CR 5,7,9, and 12	B10.1-B10.8 B9.3 B9.6 B9.7 B9.8 B9.9 B9.10 B4.6 B3.9 B4.3		

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Instructional Content	Student Outcomes	Anchor/ CR	CTE	CL	CC
<b>9. To provide students with a basic understanding of fire protection career opportunities.</b>	<b>GOAL: The student will be able to define the following:</b> A. Public fire protection careers B. Private and proprietary fire protection careers. C. Allied agencies.	3.0-3.9 7.7 CR 3 and 7	B1.0-B1.5		
<b>10. To provide the student with information about career development.</b>	<b>GOAL:</b> A. High school classes B. College classes C. Fire academies D. Seminars E. Written exams F. Oral exams G. Physical agility H. Physiological testing I. Employment Procedures 1. Background investigation 2. Health evaluation	3.1 3.3 3.4 3.9 2.1 2.3 2.4 11.2 11.4 11.5 CR 3	B1.0-B1.5		