

Course Outline

COURSE: JFT 15 **DIVISION:** 50 **ALSO LISTED AS:**

TERM EFFECTIVE: Fall 2017 **CURRICULUM APPROVAL DATE:** 02/27/2017

SHORT TITLE: CDF REFRESHER

LONG TITLE: CDF Fire Academy Refresher

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
.5 TO 2	18	Lecture:	.22 TO .44	3.96 TO 7.92
		Lab:	1.16 TO 4	20.88 TO 72
		Other:	0	0
		Total:	1.38 TO 4.44	24.84 TO 79.92

COURSE DESCRIPTION:

This is a refresher course for the Basic CDF Firefighter Academy. Returning firefighters must pass the returning firefighter written examination before working on an emergency incident. The subjects are intended to give the Firefighter 1 a basic knowledge which is needed prior to emergency response. Students are required to meet the minimum standard as noted in the behavioral objective for each subject/topic. Candidates for qualification under this course must meet the basic requirements for employment as a CDF Firefighter 1. **PREREQUISITE:** JFT 8 - Fire Fighter I Academy 1. State Fire Marshall certified basic firefighting academy diploma or equivalent as determined by the Dean of Academy Instruction. **NOTE:** Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. 2. Prior to beginning this course students must already be familiar with, and be able to demonstrate all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced officer training that builds upon them. These minimum knowledge and skill levels are regarding: Knowledge of Fire Service Organization, Familiarity with Fire Behavior, Familiarity with personal protection equipment, Knowledge of fire fighter safety, Familiarity with fire hoses, tools, and equipment, Familiarity with ladders, Knowledge of rescue procedures, Familiarity with wildland fires, Knowledge of vehicle extrication procedures

PREREQUISITES:

Completion of JFT 8, as UG, with a grade of C or better.

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES

L - Standard Letter Grade

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

- 02 - Lecture and/or discussion
- 03 - Lecture/Laboratory
- 04 - Laboratory/Studio/Activity

STUDENT LEARNING OUTCOMES:

1. Demonstrate the skills, knowledge and abilities required for routine and emergency firefighting operations
Measure of assessment: Demonstration, Scenarios
Year assessed, or planned year of assessment: 2016
2. Demonstrate the MSA SCBA donning/doffing, use, cleaning, and maintenance,
Measure of assessment: Performance exam
Year assessed, or planned year of assessment: 2016
3. Define the CDF/EED sexual harassment policy
Measure of assessment: Written Assignment, Quiz
Year assessed, or planned year of assessment: 2016
4. Identify water supply systems used in fire emergencies and perform essential fireground task.
Measure of assessment: Performance Exam
Year assessed, or planned year of assessment: 2016

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS

Curriculum Approval Date: 02/27/2017

LECTURE CONTENT:

- I. Orientation
 - A. Fire Service Organization
 - B. Mutual Aid Plans
 - C. Labor Organizations
 - D. California Joint Apprenticeship Program
 - E. California Inmate Fire Crews
 - F. Sexual Harassment/EEO
 - G. Station Operations
- II. Fire Physics and Terminology
 - A. Basic Fire Chemistry
 - B. Heat Transfer
 - C. Phases of Fire
 - D. Wildland Terminology, Parts of a Fire
 - E. Fire Behavior
- III. Aircraft Safety
 - A. Review of the CDF Firefighting Aircraft
 - B. Rotary Wing Aircraft
 - C. Signal a Helicopter
- IV. Building Construction
 - A. Structural Design, Construction Chars., and Terminology
 - B. Structural Components
 - C. Indications of Potential Building Collapse
- V. Pre Fire Planning
 - A. Pre Planning
- VI. Fire Prevention Program

- A. Fire Department Codes, Ordinances, and Regulations
- B. Review of the CDF Fire Prevention Program
- C. Basic Instructional Techniques for Public Education

Note: Increased hours of instruction on same subjects/topics will be utilized when agency need is determined.

Note: Not all subjects will be reviewed annually, subjects will vary by location of assignment.

LAB CONTENT:

I. Self-Contained Breathing Apparatus

- A. S.C.B.A. Types and Uses
- B. Respiratory Hazards
- C. Personnel Alarm Devices
- D. Cleaning and Sanitizing S.C.B.A.

II. Personal Protective Equipment

- A. Wildland Protective Equipment
- B. Structural Protective Equipment

III. Firefighter safety

- A.10 Standard Firefighting Orders
- B. Lookouts, Communications, Escape Routes, and Safety Zones
- C. 18 Fire Situations that shout "Watch Out"
- D. Fire Fatalities
- E. Fireline Hazards
- F. Fire Entrapment
- G. Deploy a Canister Fire Resistive Blanket Performance Exam
- H. Curtain; How to Use The One Piece Fire Curtain
- I. How to Use The One-Piece - Roll Down Fire Resistive Curtain

J. Using a Bulldozer

K. Deploy a Fire Shelter

II. Mobile Equipment

- A. Chock Blocks, Seat Belts and Roll Bars
- B. Bull Dozer Operations
- C. Backing Hand Signals
- D. Mobile Equipment Warning Devices

III. Fire Equipment Review

- A. Use and Care of Fire Hose
- B. Hose Appliances, Nozzles and Fittings
- C. Fire Streams
- D. Backfire Torch
- E. Traffic Control Devices and Methods
- F. Fuses and Firing
- G. Ground Ladders and Safety Practices
- H. Wildland Handtools

I. Power Tools

J. Portable Fire Extinguishers

K. Ropes and Knots

L. Ladders

IV. Water Supply System

A. Water Distribution Systems Review

B. Inspection and Maintenance of Fire Hydrants

C. Hydrant Discharge Capacity

D. Portable Water Tank

V. Pumping

A. Types of pumps

B. Basic Types of Pumping Operations

C. Hoseline Pressure Loss

D. Intake Pump Connections

E. Dual Pumping Hydrant Operations

F. Relay Pumping Operations

G. Pump Pressure control Systems

VI. Salvage and Overhaul

VII. Wildland Firefighting Operations

A. Vegetation Fire Strategy Concepts

B. Structure Protection

C. Use of water on Wildland Fire

D. Wildland Firefighting Foam

E. Mop-up and Patrol

F. Mobile Attack

G. Handline Construction

H. Wildland Hoselay

VIII. Structure Firefighting Operations

A. Initial Attack and Incident Organization

B. Strategies

C. Fire Safety

D. Rescue Tactics

E. Exposure Protection

F. Ventilation

G. Fog Stream

H. Forcible Entry

IX. Special Fires

A. Other Fires

B. Combustible Metals

X. Emergency Medical Services

A. First Aid

B. Burn Treatment

METHODS OF INSTRUCTION:

Lecture, lab, discussion and demonstrations will serve as the medium of instruction. Quizzes and a final exam as well as individual guidance will be provided as required.

METHODS OF EVALUATION:

Writing assignments

Percent of total grade: 10.00 %

Percent range of total grade: 10 % to 15 % Written Homework

Problem-solving assignments

Percent of total grade: 20.00 %

Percent range of total grade: 20 % to 35 % Skills Evaluation; Quizzes; Exams

Skill demonstrations

Percent of total grade: 30.00 %

Percent range of total grade: 30 % to 60 % Class Performance/s; Performance Exams

Objective examinations

Percent of total grade: 15.00 %

Percent range of total grade: 15 % to 25 % Multiple Choice; True/False

OUT OF CLASS ASSIGNMENTS:

Reading:

Review 10 Standard Fire Fighting Orders in CDF 4300 Training Manual.

Written Assignment:

Students will complete a written assignment that includes Wildland Firefighting terminology

Skills Practice:

Students will practice tying different types of knots.

REPRESENTATIVE TEXTBOOKS:

Required Representative Textbooks

Verified by: An-Yeung. Required: California State Fire Marshall Curriculum Committee, California Department of Forestry Firefighter 1 - Basic Manual, CDF 4300 Training Manual, State Fire Marshall, Current Edition, or other appropriate college level text..

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 201070

UC TRANSFER:

Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: Y

Noncredit Category: Y

Cooperative Education:

Program Status: 1 Program Applicable

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department: JFT

CSU Crosswalk Course Number: 15

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: C

Maximum Hours:

Minimum Hours:

Course Control Number: CCC000522124

Sports/Physical Education Course: N

Taxonomy of Program: 213300