

Course Outline

COURSE: JFT 1A **DIVISION:** 50 **ALSO LISTED AS:**

TERM EFFECTIVE: Fall 2013 **CURRICULUM APPROVAL DATE:** 10/14/2013

SHORT TITLE: FIRE COMMAND 1A

LONG TITLE: Fire Command 1A

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
1	18	Lecture:	.45	8.1
		Lab:	1.78	32.04
		Other:	0	0
		Total:	2.23	40.14

COURSE DESCRIPTION:

This course provides students an introduction to human resource management and an overview of the organizational structure used within the fire service. Students will size-up emergency situations and identify the strategies, tactics, and methods necessary to manage given scenarios. Common causes of fire fighter deaths and injuries, appropriate safety measures to protect personnel will also be covered.

PREREQUISITE: Fire Fighter 1 Certification A & B, or Equivalent. **ADVISORY:** Eligible for English 250 and English 420.

PREREQUISITES:

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. Identify fire service personnel with an overview of the organizational structure used within the fire service, including duties and responsibilities.

Measure: Written Exam

PLO:

ILO: 2.3.

GE-LO:

Year assessed or anticipated year of assessment: 2013

2. Demonstrate how to compile a prefire plan, and how to utilize that information when responding to an emergency incident

Measure: Written exam, role play

PLO:

ILO: 2,3,

GE-LO:

Year assessed or anticipated year of assessment: 2013

3. Identify the strategies, tactics and methods necessary to manage given scenarios.

Measure: Class exercise

PLO:

ILO: 2,3

GE-LO:

Year assessed or anticipated year of assessment: 2013

4. Describe the principles of delegation of authority at an emergency incident.

Measure: Exam, class exercise

PLO:

ILO: 2, 3,

GE-LO:

Year assessed or anticipated year of assessment: 2013

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

Curriculum Approval Date: 10/14/2013

.5 Hours

CONTENT: I. Introduction to Command

A. Orientation and Administration

1. Course Goals

2. Human Resource Management

3. Organizational Structure

B. The Learning Process

1. Knowledge and Experience

C. Fire Command Overview

1. Command Activities

STUDENT PERFORMANCE OBJECTIVES (SPO): Identify the authority and responsibility of each component of the fire department.

OUT-OF-CLASS ASSIGNMENTS: reading assignment

5.5 Hours

CONTENT:

II. Fire Behavior

A. Fire Chemistry

1. Fire Defined
2. Elements
3. Heat
4. Fuel

B. Fire Phases

1. Incipient Phase
2. Free Burning Phase
3. Smoldering Phase
4. Backdraft
5. Flashover

C. Effects of Time

1. Standard Time-Temperature Core
2. Fire Department Reflex Time
3. Detection
4. Fire Department Notification
5. Control and Extinguishment

D. Fire Behavior Within Structures

1. Basic Fire Behavior within Structures
2. Fire Progress within a Structure
3. The Path of Least Resistance

SPO: Identify the basic fire behavior within a structure, the main method by which heat will spread, and three factors which may affect a fire's development within a structure.

OUT-OF-CLASS ASSIGNMENTS: reading assignment, test preparation

6 Hours

CONTENT:

III. Fire Control Concepts

A. Extinguishing Agents

1. Four Classes of Fire
2. Water
3. Foam
4. Carbon Dioxide (CO₂)
5. Halogenated Agents
6. Dry Chemicals

B. Water Application

1. Methods of Attack
2. Factors

C. Protection Systems

1. Sprinklers
2. Fire Detectors
3. Alarm Systems

SPO: Identify the different fire protection systems that firefighters might encounter during department operations.

OUT-OF-CLASS ASSIGNMENTS: reading assignment

6 Hours

CONTENT:

IV. Pre-Fire Planning

A. Building Construction

1. Types

2. Materials

B. Occupancy Types

C. Pre-Fire Planning

1. Types of Pre-Plans

2. Target Hazards

D. Fire Data

1. Incident Report

2. National Fire Incident Reporting System (NFIRS) and California Fire Incident Reporting System (CFIRS)

3. NFPA 901

E. Local Resources

F. State & Federal Resources

SPO: Student will identify some of the state and federal agencies that may offer assistance to fire departments during local emergencies.

OUT-OF-CLASS ASSIGNMENTS: reading assignment NFPA Fire Protection Handbook

8 Hours

CONTENT:

V. Fire On Scene

A. Fireground Safety

1. Statistics

2. Firefighter Safety

B. Size-Up

1. Information Sources

2. Lloyd Layman's Size Up System

C. Strategy, Tactics & Methods

1. Components

2. Strategies

D. Report on Conditions

E. Role of the First-In Officer

1. Role of the Company Officer

F. Company Operations

G. Determining Resources Requirements

1. Field Formula for Calculating Fire Flow

2. Planning and Practice

H. Apparatus Placement

I. Initial Fire Attack

SPO: Identify the leading cause of death and injuries to firefighters.

OUT-OF-CLASS ASSIGNMENTS: Reading assignment Handout: Death and Injury Report for US Firefighters

14 Hours

CONTENT:

VI. Management Skills

A. Management Overview

B. The Fire Service

1. Systems Approach

C. The Company Officer

- 1. Skills, Knowledge and Abilities Required
- D. Pressure of Command
 - 1. Stress
- E. Performance Standards
 - 1. Components of Performance Standards
 - 2. Factors Affecting Fireground Performance
- F. Levels of Emergency
 - 1. Four Levels of Emergency
- G. Decision Making
 - 1. Identification of the Problem
 - 2. Evaluating Alternatives
- H. Communications
 - 1. Methods
- I. Management by Objectives
 - 1. The Basis of Management by Objectives
 - 2. Benefits
- J. Divisions of Fire Fighting
 - 1. Major Goals of Fireground Operations
 - 2. Keys to Successful Scene Management
- K. Command/Control Components
 - 1. Organization
 - 2. Chain of Command
 - 3. Control Structure
- VII. Simulation Exercises

SPO: Describe a definition of "management", identify the four functions of management, and distinguish between technical and managerial skills.

OUT-OF-CLASS ASSIGNMENTS: reading assignment, Management of Fire Service Operations Handout

METHODS OF INSTRUCTION:

Lecture, discussion and demonstrations will serve as the medium of instruction. Audio-visual aids will be utilized as they facilitate meaningful instruction. Regular assignments will be made for out-of-class study and research. Individual guidance will be provided as required.

METHODS OF EVALUATION:

CATEGORY 1 - The types of writing assignments required:

Percent range of total grade: 20 % to 25 %

Reading Reports

CATEGORY 2 -The problem-solving assignments required:

Percent range of total grade: 25 % to 35 %

Quizzes

CATEGORY 3 -The types of skill demonstrations required:

Percent range of total grade: 30 % to 40 %

Class Performance/s

CATEGORY 4 - The types of objective examinations used in the course:

Percent range of total grade: 25 % to 40 %

Multiple Choice

True/False

REPRESENTATIVE TEXTBOOKS:

n/a

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 199870

UC TRANSFER:

Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: I

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: 1A

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: Y

Occupational Course: C

Maximum Hours:

Minimum Hours:

Course Control Number: CCC000160938

Sports/Physical Education Course: N

Taxonomy of Program: 213300