

Course Outline

COURSE: JFT 10 **DIVISION:** 50 **ALSO LISTED AS:**

TERM EFFECTIVE: Fall 2015 **CURRICULUM APPROVAL DATE:** 03/23/2015

SHORT TITLE: FIRE FIGHTER II

LONG TITLE: Fire Fighter II

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
3.5	18	Lecture:	2.4	43.2
		Lab:	4.45	80.1
		Other:	0	0
		Total:	6.85	123.3

COURSE DESCRIPTION:

This course is the second in a series of courses that provides the skills and knowledge needed for entry level professional fire fighter to perform his/her duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications. The five overarching themes of the California State Fire Fighter II curriculum are: general knowledge germane to the profession, fire department communications, fireground operations, rescue operations, and prevention, preparedness, and maintenance. **PREREQUISITE:** Fire Fighter I

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. Identify different levels in the Fire Fighter certification track, the courses and requirements for Fire Fighter II certification, and be able to describe the capstone task book process.

Measure: exam,

PLO:

ILO: 2,1

GE-LO:

Year Assessed: 2015

2. Identify and describe the role and responsibilities of a Fire Fighter II within the organization, determine the need for command, and organize and coordinate activities using the information provided.

Measure: Skills exam

PLO:

ILO: 2,1

GE-LO:

Year Assessed: 2015

3. Given report forms, guidelines, and information, will be able to complete a basic incident report that completely and accurately records all pertinent information.

Measure: written assignment

PLO:

ILO: 2,1,7

GE-LO:

Year Assessed: 2015

4. Identify the advantages and disadvantages of smooth bore, fog, and foam nozzles for foam application.

Measure: demonstration

PLO:

ILO: 2,1,7

GE-LO:

Year Assessed: 2015

5. Students will be able to complete recording and reporting procedures.

Measure: Skills demonstration class exercise

PLO:

ILO: 2,1

GE-LO:

Year Assessed: 2015

PROGRAM LEARNING OUTCOMES:

Students will identify and demonstrate the skills and knowledge needed for the entry level professional fire fighter to perform his/her duties safely and effectively.

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

Curriculum Approval Date: 03/23/2015

5 Hours

Content: Unit I - Fire Fighter II Certification Process

1. The different levels of certification in the Fire Fighter II certification track

a. Fire Fighter II

2. Identify any other requirements for Fire Fighter II

3. Describe the capstone task book process

- a. Prerequisites and course work
- b. Fees and request capstone task book
- c. Job performance requirements
- d. Identified evaluator

II. General Knowledge Requirements

1. Responsibilities of the Fire Fighter II in performing assigned duties in conformance with applicable NFPA standards and other safety regulations and AHJ procedures
2. The role of a Fire Fighter II within the organization
3. The need for command
4. The responsibilities of the Fire Fighter II in assuming and transferring command within the incident management system
 - a. Size-up
 - b. Arrival report
 - c. Initial strategies and tactics or initial incident action plan (IAP)
 - d. Assign resources
 - e. Implement the incident command system
 - f. Complete transfer of command briefing
5. Incident management system

Student Performance Objectives (SPO):

Identify the different levels of certification in the Fire Fighter II certification track

Out-of-Class Assignments: Reading Assignment

3 Hours

Content: Unit 2: Fire Department Communications

1: Completing Incident Reports

- a. Content requirements for basic incident reports
- b. The purpose and usefulness of accurate reports
- c. Consequences of inaccurate reports
- d. Obtain necessary information
- e. Required coding procedures
- f. Necessary codes
- g. Proofread reports

h. Skills - Operate fire department computers or other equipment necessary to complete reports

2: Basic Company Communications

- a. Standard operating procedures for alarm assignments
- b. Fire department radio communication procedures
- c. Skills - Operate fire department radio communications equipment

Student Performance Objectives (SPO): Given report forms, guidelines, and information, will be able to complete a basic incident report that completely and accurately records all pertinent information.

Out-of-Class Assignments: Reading assignment and Uniform preparation

70 Hours

Content: Unit 3: Fireground Operations

I. Extinguishing an Ignitable Liquid Fire

- a. Methods by which foam prevents or controls a hazard
- b. Principles by which foam is generated
- c. Causes for poor foam generation and corrective measures
- d. The difference between hydrocarbon and polar solvent fuels and the concentrates that work on each

- e. Characteristics, uses, and limitations of firefighting foams
- f. Advantages and disadvantages of using fog nozzles versus foam nozzles for foam application
- g. Foam stream application techniques
- h. Hazards associated with foam use
- i. Methods to reduce or avoid hazards

Skills

- a. Prepare foam concentrate supply for use
- b. Assemble foam stream components
- c. Demonstrate various foam application techniques
- d. Approach and retreat from spills as part of a coordinated team

2: Controlling a Flammable Gas Cylinder Fire

- a. Characteristics of pressurized flammable gases
- b. Elements of a gas cylinder
- c. Effects of heat and pressure on closed cylinders
- d. Boiling liquid expanding vapor explosion (BLEVE) signs and effects
- e. Methods for identifying contents
- f. Alternative actions related to various hazards and when to retreat

Skills

- a. Apply various techniques for water application
- b. Assess cylinder integrity and changing cylinder conditions
- c. Operate control valves

3. Controlling a Flammable Gas Cylinder Fire

- a. Characteristics of pressurized flammable gases
- b. Elements of a gas cylinder
- c. How to identify safe havens before approaching flammable gas cylinder fires
- d. Valve types and their operation

Skills

- a. Apply various techniques for water application
- b. Assess cylinder integrity and changing cylinder conditions
- c. Operate control valves
- d. Choose effective procedures when conditions change

4. Protecting Evidence of Fire Cause and Origin

- a. Methods to assess origin and cause
- b. Types of evidence
- c. Relationships of the Fire Fighter II, criminal investigators, and insurance investigators in fire investigations
- e. The effects and problems associated with removing property or evidence from the scene

Student Performance Objectives (SPO):

Identify the advantages and disadvantages of smooth bore, fog, and foam nozzles for foam application.

Out-of-Class Assignments: Uniform preparation / equipment cleaning

20 Hours

Content: Unit 4: Rescue Operations

1. Vehicle Extrication

- a. The fire departments role at a vehicle accident
- b. Strength and weakness in auto body construction
- c. Dangers associated

- d. uses and limitations of hand and power tools
 - e. Forcible Entry
 - f. Stabilization tools and equipment
2. Assisting in Rescue Operations
 - a. Fire fighters role and a technical rescue operation
 - b. Types and uses for rescue tools
 - c. Rescue practices and goals
 - d. Establish public barriers

Student Performance Objectives (SPO): Students will be able to assist rescue operation teams, follow procedures and recognize and retrieve rescue items.

Out-of-Class Assignments: Reading assignment

14 Hours

Content: Unit 5: Prevention, Preparedness, and Maintenance

1. Performing a Fire Safety Survey at a Private Dwelling
 - a. Organizational policy and procedures
 - b. Common Causes of fire and their prevention
 - c. The importance of a fire safety survey and public fire education program
 - d. Recognize Hazards
2. Presenting Fire Safety Information
 - a. Types of informational material
 - b. Basic Presentation skills
 - c. Document presentations
3. Preparing Preincident Surveys
 - a. Sources of water supply for fire protection
 - b. Fundamentals of fire suppression and detection systems
 - c. Components of fire suppression and detection systems
 - d. Related departmental forms
4. Maintaining Power Equipment
 - a. Manufacturer and departmental guidelines for maintaining equipment
 - b. Types of cleaning methods
 - c. Correct use of cleaning solvents
 - d. Correct tools
 - e. Guidelines

Skills

- a. Operate power plants, power tools, and lighting equipment
 - b. Complete recording and reporting procedures
5. Performing Annual Hose Service Test
 - a. Procedures
 - b. Recording procedures

Student Performance Objectives (SPO): Students will be able to maintain power equipment, and hose service using outlined procedures and recording procedures.

Out-of-Class Assignments: Reading Assignment

METHODS OF INSTRUCTION:

Skills Demonstration, Lecture, Scenario Training

METHODS OF EVALUATION:

CATEGORY 1 - The types of writing assignments required:

Percent range of total grade: 10 % to 20 %

Reading Reports

If this is a degree applicable course, but substantial writing assignments are NOT appropriate, indicate reason:

Course primarily involves skill demonstration or problem solving

CATEGORY 2 - The problem-solving assignments required:

Percent range of total grade: 30 % to 60 %

Field Work

Other: Skills Exam

CATEGORY 3 - The types of skill demonstrations required:

Percent range of total grade: 50 % to 90 %

Class Performance/s

Field Work

Performance Exams

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

Percent range of total grade: 30 % to 50 %

Other: Skills Demonstration

REPRESENTATIVE TEXTBOOKS:

Required:

Fundamentals of Fire Fighter Skills, Jones and Bartlett Learning, 2015

or other appropriate college level text.

ISBN: 978-4496-7085

Reading level of text, Grade: 12 Verified by: Dough Achterman

Other textbooks or materials to be purchased by the student:

Fire Engineering Handbook for Fire Fighter I and Fire Fighter II, ISBN: 978-1-5970-135-2

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 201570

UC TRANSFER:

Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: Y

Noncredit Category: Y

Cooperative Education:

Program Status: 2 Stand-alone

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department: JLE
CSU Crosswalk Course Number: 10
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: C
Maximum Hours: 3.5
Minimum Hours: 3.5
Course Control Number:
Sports/Physical Education Course: N
Taxonomy of Program: 213300