

Course Outline

COURSE: JFT 106 **DIVISION:** 50 **ALSO LISTED AS:**

TERM EFFECTIVE: Spring 2015 **CURRICULUM APPROVAL DATE:** 10/13/2014

SHORT TITLE: FIRE CONTROL 3B

LONG TITLE: Fire Control 3B-Structural Firefighting in Live-fire Simulators

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
.5	18	Lecture:	.16	2.88
		Lab:	.62	11.16
		Other:	0	0
		Total:	.78	14.04

COURSE DESCRIPTION:

This 14 hour course is designed to develop fundamental skills in combating structure fires by providing the students with a thorough understanding of information on fire behavior. The opportunity to reinforce the student's understanding of fire behavior is provided in all the exercises to be conducted during the delivery of the Fire Control 3B class. **PREREQUISITE:** Certified Firefighter I of equivalent and Fire Control 3A.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES

P - Pass/No Pass

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

02 - Lecture and/or discussion

STUDENT LEARNING OUTCOMES:

1. Recognize methods and procedures used for direct, indirect, and combination water application on interior structure fires.

Measure: performance, demonstration

PLO: 1,2,7

ILO: 1,2,3,7

2. Demonstrate proper application of various nozzle patterns

Measure: performance, demonstration

PLO: 2, 7

ILO: 2,3,7

3. Illustrate the effectiveness of Strip Ventilation Cut technique

Measure: performance, demonstration

PLO: 2,7

ILO: 2,3,7

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

Curriculum Approval Date: 10/13/2014

.5 Hours

Content:

I. Staff and Student Organization

A. Staff identification/positions

a. roles and responsibilities

B. Student organization

b. organize into workable student units

Student Performance Objectives (SPO): Identify what personnel will be responsible for keeping the team involved in all phases of the class.

Out-of-Class Assignments: Review staff chart for responsible persons during each demonstration/exercise

1 Hours

Content:

II. Live-Fire Simulator Exercise

A. Live fire simulator exercise

a. several types of facilities to use for live-fire simulators

1. fixed

2. mobile

b. safety lecture conducted in side live-fire simulator

c. demonstration proper application of various nozzle patterns and the effects of water application

1. steam production

2. thermal influence

3. air movement effect on fire travel

Student Performance Objectives (SPO): Illustrate as many aspects of fire behavior as possible to increase knowledge of live-fire burn in simulators.

Out-of-Class Assignments: Read chapter on live fire in simulator prior to skills test

1 Hours

Content:

III. Ventilation Techniques Exercise

A. Proper method and techniques of ventilation

- a. utilize ventilation equipment
 - 1. hand tools
 - 2. power equipment
- B. Strip Ventilation Cut
 - a. hold back the fire at the cut with hoselines
 - b. Assistant Safety Officer is required
 - 1. responsible for safe operations while conducting ventilation exercises
- C. Conventional (Vertical) Ventilation
- D. Mechanical Ventilation

Student Performance Objectives (SPO): Apply and demonstrate the different kinds of ventilation techniques

Out-of-Class Assignments: Review chapter on ventilation techniques

2 Hours

Content:

IV. Interior & Exterior Fire Attack Exercises

A. Communications

a. safety regulations, exits and fire suppression discussed prior to fire

- 1. expectations of exercise during a pre-exercise safety briefing
- 2. check each other for the PPE donned properly

B. Methods and procedures used for direct, indirect, and combination water application.

- 1. complete recommended checklist prior to making entry

C. Exterior fire attacks are limited to stream application

- 1. windows
- 2. doors
- 3. exposure protection

Student Performance Objectives (SPO): Apply all safety techniques while participating in a live-fire interior and exterior burn exercise in the simulator

Out-of-Class Assignments: Review and make a list of all safety techniques used in the live-fire interior and exterior burns

1 Hours

Content:

V. SCBA Exercise

A. Self Contained Breathing Apparatus

1. use different search patterns

- a. right- or left- handed search pattern
- b. crawl position

2. survival techniques

3. gaining maximum performance from an SCBA

Student Performance Objectives (SPO): Demonstrate the proper use of SCBA during basic performance evaluations.

Out-of-Class Assignments: Review chapter on SCBA

2 Hours

Content:

VI. Attic & Basement Fire Attack Exercise

A. Tools

1. vary by department and types of construction
2. use of piercing nozzle

B. Smoke and gasses produced in basement fires

1. effective management of smoke and gasses via ventilation and attack methods
2. use of cellar nozzle
 - a. also effective for use with dock fires

Student Performance Objectives (SPO): Demonstrate effective methods of controlling an attic or basement fire.

Out-of-Class Assignments: Review chapters on attic and basement fire attacks in the simulator

.5 Hours

Content:

VII. Class Critique

A. student evaluations

Student Performance Objectives (SPO):

Out-of-Class Assignments:

METHODS OF INSTRUCTION:

Skills Demonstration, Lecture, Scenario Training

METHODS OF EVALUATION:

CATEGORY 1 - The types of writing assignments required:

Percent range of total grade: 0 % to %

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: 20 % to 30 %

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:

Office of State Fire Marshall, Fire Control 3B, State Fire Training, 2009
or other appropriate college level text.

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

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 201530

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: JFT

CSU Crosswalk Course Number: 106

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: C

Maximum Hours: .5

Minimum Hours: .5

Course Control Number:

Sports/Physical Education Course: N

Taxonomy of Program: 213300