

Course Outline

COURSE: JFT 105 **DIVISION:** 50 **ALSO LISTED AS:**

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

SHORT TITLE: FIRE CONTROL 3A

LONG TITLE: Fire Control 3A - Structural Fire Fighting in Acquired Structures

<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, ventilation procedures and techniques, interior fire attack, and exterior attack. The opportunity to reinforce the student's understanding of fire behavior is provided in all of the exercises to be conducted during the delivery of the Fire Control 3A class. **PREREQUISITE:** Certified Fire Fighter I or Equivalent

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

03 - Lecture/Laboratory

04 - Laboratory/Studio/Activity

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 of staff chart

1 Hours

Content:

II. Fire Behavior Exercise

A. Live fire exercise

a. planning, expected and desired fire behavior

b. lecture conducted in live-fire training room

c. demonstrating proper application of various nozzle patterns

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

Out-of-Class Assignments: Review class notes and fire behavior chapter

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 class notes and read chapter on ventilation techniques

2 Hours

Content:

IV. Interior & Exterior Fire Attack Exercises

A. Communications

- a. reliable communications in place before fire
 - 1. expectations of exercise during a pre-exercise safety briefing
 - 2. check each other for the PPE donned properly

B. Weather, structures, vegetation, etc.

- a. site-specific hazards and/or exposures
- b. required elements

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

Out-of-Class Assignments: Make a list of safety techniques to be followed during a live fire demonstration

1 Hours

Content:

V. SCBA Exercise

A. Self Contained Breathing Apparatus

- 1. survival techniques
- 2. gaining maximum performance from an SCBA

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

Out-of-Class Assignments: Review chapter on SCBA

2 Hours

Content:

VI. Attic & Basement Fire Attack Exercise

A. Tools

- 1. 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 in a basement fire.

Out-of-Class Assignments: Review chapters on attic and basement fire attacks prior to class

.5 Hours

Content:

VII. Class Critique

A. student evaluations

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 %

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 3A, 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: 105

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: Y

Occupational Course: C

Maximum Hours: .5

Minimum Hours: .5

Course Control Number:

Sports/Physical Education Course: N

Taxonomy of Program: 213300