

**Course Outline**

**COURSE:** JFT 107                      **DIVISION:** 50                      **ALSO LISTED AS:**

**TERM EFFECTIVE:** Summer 2015                      **CURRICULUM APPROVAL DATE:** 03/09/2015

**SHORT TITLE:** CREW BOSS - S-230

**LONG TITLE:** Fire Crew Boss - S-230

| <u>Units</u> | <u>Number of Weeks</u> | <u>Type</u> | <u>Contact Hours/Week</u> | <u>Total Contact Hours</u> |
|--------------|------------------------|-------------|---------------------------|----------------------------|
| .5           | 18                     | Lecture:    | .68                       | 12.24                      |
|              |                        | Lab:        | .68                       | 12.24                      |
|              |                        | Other:      | 0                         | 0                          |
|              |                        | Total:      | 1.36                      | 24.48                      |

**COURSE DESCRIPTION:**

This course is required training for all personnel desiring to be qualified as a single resource boss. The concepts in this course are to be applied to all single resource boss positions, not just the Crew Boss of a hand crew. Lessons provide introduction to operational leadership, mobilization, arrival at the incident, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization, and post-incident responsibilities. **PREREQUISITE:** Qualified as a Firefighter I or equivalent.

**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. Describe Crew Boss responsibilities prior to and during mobilization, on the incident, and during demobilization.

Measure: role playing, performance,

PLO: 1,3,6,7

ILO: 1,3,6,7

GE-LO:

Year Assessed: 2015

2. Identify the hazards and risks on various incidents and describe how to mitigate them.

Measure: exam, role playing, performance

PLO: 1,3,6,7

ILO: 1,3,6,7

GE-LO:

Year Assessed: 2015

3. Describe tactics that are appropriate to various wildland fire situations and implement them through the chain of command.

Measure: role playing, performance, exam

PLO: 1,3,6,7

ILO: 1,3,6,7

GE-LO:

Year Assessed: 2015

**PROGRAM LEARNING OUTCOMES:**

1. Describe Crew Boss responsibilities prior to and during mobilization, on the incident, and during demobilization.

2. Identify the hazards and risks on various incidents and describe how to mitigate them.

3. Describe tactics that are appropriate to various wildland fire situations and implement them through the chain of command.

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

Curriculum Approval Date: 03/09/2015

1 Hours

Content:

I. Operational Leadership

A. Leadership Concepts

1. Chain of Command

2. Motivation

3. Taking Action

4. Communication

5. Supervise

B. Qualities of Good Leadership

1. Proficient

2. Decision Making

3. The task at hand

4. Developing Subordinates

5. Team Building

6. Capabilities of Subordinates

7. Responsibility

Student Performance Objectives (SPO): Describe the values and principles of operational leadership.

Out-of-Class Assignments: Review the qualities of good leadership and team building techniques.

1 Hours

5/29/2015

Content:

## II. Mobilization

### A. Crew Boss Kit

1. Documentation Forms
2. Miscellaneous Items

### B. Notification of Mobilization

Student Performance Objectives (SPO): Explain the importance of evaluating crew readiness and establishing crew organization.

Out-of-Class Assignments: Review contents of a fully equipped Crew Boss Kit.

1.45 Hours

Content:

## III. Arrival at Incident

### A. Intra-Crew Coordination

1. Anticipating Crew Needs
2. Briefings

### B. Incident Action Plan (IAP)

1. Operational Period
2. Strategy
3. Tactics

### C. Incident objectives/ Work planning relationship

### D. Assessing tactical and logistical needs

### E. Crew Briefing

Student Performance Objectives (SPO): Assess crew logistical needs based upon the operational period assignment.

Out-of-Class Assignments: Review procedure for creating an Incident Action Plan.

1.15 Hours

Content:

## IV. Risk Management

### A. Risk Management Process

1. Components
2. Risks
3. Applying controls to mitigate risks

### B. Five Steps

1. Situation Awareness
2. Hazard Assessment
3. Hazard Control
4. Decision Point
5. Evaluate

Student Performance Objectives (SPO): Identify the five steps of the risk management process.

Out-of-Class Assignments: Review the process for a situation awareness size up at an incident.

2 Hours

Content:

## V. Entrapment Avoidance

### A. Skills

### B. Escape and Safety

### C. Decision Making

1. Key Decision Points
2. Risk Decision for Engaging a Fire

3. Rules of Engagement

4. Risk Management

5. Levels of Engagement

D. Recognition

1. Escape Route and Safety Zone Recognition

2. Process

3. Safety Zone

E. The Human Factor

1. Escape and Safety Decision Paths

2. Decision Errors

3. Entrapments

Student Performance Objectives (SPO): Describe the role LCES has in the risk management process.

Out-of-Class Assignments: Review human factors that contribute to fireline decision errors.

8 Hours

Content:

VI. Safety and Tactics

A. Sizing Up Your Situation

1. Operational Activities

2. Sizeup Considerations

3. Information Sources

4. Sizeup Methods

5. Topography

6. Fuels

7. Fire Behavior

8. LCES

9. Weather Conditions

10. Other Elements

B. Fireline and Handtool Considerations

1. Line Locator

2. Fireline Construction

3. Tool Selection

4. Tool Assignment

5. Crew Performance

6. Line Specifications

7. Minimum Impact Suppression Tactics (MIST)

C. Fireline Tactics

1. Direct Attack

2. Indirect Attack

D. Downhill Fireline Construction

1. Hazards

2. Guidelines

E. Air Support

1. Air Support

2. Aircraft Use

3. Inappropriate Situations

4. Communicating with Aircraft

F. Firing and Holding

1. Firing operations

2. Preparations

3. Responsibilities

4. Holding operations

G. Mopup and Rehabilitation

1. Mopup

2. Rehabilitation

H. Initial Attack

1. Initial Attack Commander

2. Briefing

I. Wildland/Urban Interface

1. Poor Access and Narrow One Way Roads

2. Bridge Load Limits

3. Wooden Construction and Wood Shake Roofs

4. Powerlines, Propane Tanks, and HazMat Threats

5. Inadequate Water Supply

6. Natural Fuels 30 Feet or Closer to Structures

7. Structures in Chimneys, Box Canyons, Narrow Canyons, or on Steep Slopes

8. Extreme Fire Behavior

9. Strong Winds

10. Evacuation of Public

Student Performance Objectives (SPO): Describe safety precautions that should be addressed by the Crew Boss in downhill and indirect fireline construction.

Out-of-Class Assignments: Review Crew Boss responsibilities for accidents, injuries, and near misses.

1 Hours

Content:

VII. Off Line Duties

A. Planning Procedures

B. Considerations

C. Responsibilities

D. Medical Attention

Student Performance Objectives (SPO): Identify the key responsibilities of the Crew Boss following tactical assignments while at the incident base or camp.

Out-of-Class Assignments: Review key responsibilities of the Crew Boss when the crew is out of service.

1 Hours

Content:

VIII. Demobilization and Post-Incident Responsibilities

A. Re-supply

B. Demobilization Procedures

1. Information Sources

2. ICS forms

3. Firefighter Time Reports (FTR)

C. Post-Incident Responsibilities

1. Return Travel Status

2. Disassembly of crew at home unit

3. Critique of Incident (AAR)

Student Performance Objectives (SPO): Identify proper procedures for re-supply of fire expended items and list the steps necessary for the demobilization of a crew from an incident.

Out-of-Class Assignments: Review the key responsibilities of a Crew Boss prior to disassembly of crew at the initial mobilization point.

2 Hours

Content: Final Exam

**METHODS OF INSTRUCTION:**

Skills demonstration, lecture, scenario training, facilitated discussions, classroom exercises and tactical decision game exercises

**METHODS OF EVALUATION:**

CATEGORY 1 - The types of writing assignments required:

Percent range of total grade: 10 % to 30 %

Reading Reports

Course primarily involves skill demonstration or problem solving

CATEGORY 2 - The problem-solving assignments required:

Percent range of total grade: 20 % to 30 %

Quizzes

Exams

Other: Tactical decision exercises games, scenarios

CATEGORY 3 - The types of skill demonstrations required:

Percent range of total grade: 40 % 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:

NFES, Student Workbook S-230, NFES2811, 2014

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

Other textbooks or materials to be purchased by the student:

Incident Response Pocket Guide, NFES 1077

Fireline Handbook PMS 410-1, NFES 0065

Position Task Book for Single Resource Boss, NFES 2318

Wildland Fire Suppression Tactics Reference Guide, NFES 1256

**ARTICULATION and CERTIFICATE INFORMATION**

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 201550

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: 107

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