

Course Outline

COURSE: JFT 104 **DIVISION:** 50 **ALSO LISTED AS:**

TERM EFFECTIVE: Fall 2020 **CURRICULUM APPROVAL DATE:** 04/14/2020

SHORT TITLE: INCIDENT SAFETY OFFICER

LONG TITLE: Fire Safety Officer S-404

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
.5	18	Lecture:	.45	8.1
		Lab:	.88 TO 1.8	15.84 TO 32.4
		Other:	0	0
		Total:	1.33 TO 1.8	23.94 TO 32.4

COURSE DESCRIPTION:

Provides students specific focus on operations within an Incident Command System as a Safety Officer. Topics include safety officer effectiveness, analysis techniques, safety messages, briefings and reports, and high hazard operations. **PREREQUISITE:** Firefighter I or Equivalent. JFT 225 or JFT 8.

PREREQUISITES:

Completion of JFT 225, as UG, with a grade of C or better.

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:

By the end of this course, a student should:

1. Identify and prepare for risk management at scene. Include situation awareness, communication, weather, and hazard assessment.
2. Identify Tech-Rescue Incidents as confined space, trench and hazmat incidents. Duties to include victim location and predicament and rescue likelihood with additional monitoring.

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

Curriculum Approval Date: 04/14/2020

Lecture Content:

Content: (8 hours)

I. Introduction to the Safety Officer Role

- A. Safety Officer Role in fire departments
- B. History of the fire department safety officer

C. National Fire Protection Association Standards (NFPS) standards that affect and pertain to the incident safety officer

D. Explain the need for an incident safety officer in empirical and image terms

II. Risk Management

A. Situation Awareness

1. Size-up
2. Clear Objectives
3. Communications
4. Fire Behavior
5. Weather

6. Chain of Command

7. Barriers

B. Hazard Assessment

1. Identify
2. Estimate potential hazard
- 3.

Utilize Job Aid Checklists

C. Hazard Control

1. Job Aid Checklists
2. Proper Personal Protective Equipment (PPE)
3. Safety Equipment

D. Decision Point

1. Go/No Go
2. The Five hazardous attitudes that effect the decision making process

E. Evaluate

1. Supervisors
2. Personnel / resources working for you
3. Ongoing Re-Evaluation of the operation

Lab Content:

III. Safety Concepts (4 hours)

A. Safety in the Operational Environment

1. Procedures
2. Guidelines
3. Equipment
4. Personnel
- IV. The Incident Safety Officer (ISO) at Technical Rescue Incidents (4 hours)
 - A. Tech-rescue incidents
 1. Mandatory ISO assignment for confined space, trench, and hazmat incidents
 - B. General Duties at the Tech-Rescue Incident
 1. Victim location and predicament
 2. Rescue likelihood
 - C. Monitoring Issues at Tech-Rescue Incidents
 1. Risk
 2. Operational effectiveness
 - D. Personal Safety System Issues at Tech-Rescue Incidents
 1. Accountability systems
 2. Control Zones
 3. Radio Transmissions
 4. Rehab
 5. Traffic
 - E. Defining Other Needs
 1. Need for ISO assistance
- V. Incident Safety Officer (ISO) at Structure Fires (4-10 hours)
 - A. Introduction to Specific Incident Types
 1. Standard format to address multiple incident types
 - B. ISO General Duties at Structure Fires
 1. Structure fires considered the most risky incident type
 2. Monitor general issues
 3. Evaluate personal safety system issues
 4. Define other needs
 5. Benchmarks
 - C. Monitoring Issues at Structure Fires
 1. Risk
 2. Operational effectiveness
 - D. Personal Safety System Issues at Structure Fires
 1. Personal accountability report (PAR)
 2. Control Zones (NFPA1521)
- VI. Incident Safety Officer (ISO) Action Model at Structure Fires (4-14 hours)
 - A. Applying the ISO Action Model at Structure Fires
 1. Risk evaluation at a structure fire
 2. Recon evaluation at a structure fire
 3. Resource evaluation at structure fires
 4. Report issues at structural fires
 - B. Unique Considerations at Structure Fires
 1. Residential versus commercial fires
 2. High-rise buildings
 3. Strip malls
 4. Buildings with central hallways and stairwells
 - C. The ISO Action Model at structural fires

1. Risk: Rescue profile
2. Recon - Evaluate principal hazard, integrity, and physical surroundings
3. Rehab - Evaluate time, personnel, and equipment
4. Report: utilize safety briefings

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

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 %

Multiple Choice

Other: Skills Demonstration

:

Recommended Representative Textbooks

FEMA. NIMS ICS All-Hazards Safety Officer. FEMA,2020.

or other appropriate college level text

Reading Level of Text, Grade: 12 Verified by: An-Yueng

Recommended Other Texts and Materials

Fire Department Incident Safety Officer 3rd Edition, David Dodson 2019

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 201430

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: 104

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: CCC000549972

Sports/Physical Education Course: N

Taxonomy of Program: 213300