Course Title: Occupational Safety and Health for Emergency Services

Course Prefix & No.: FST 1060  
LEC: 3  
LAB: 0  
Credit Hours: 3

COURSE DESCRIPTION:

FIST 1060 (Occupational Safety and Health for Emergency Services) introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations.

COURSE PREREQUISITE (S):

Admission into the Fire Science Program

RATIONALE:

This course is designed for the entire fire service or the student that would like to enter the career field. FIST 1060 focuses heavily on the issues of firefighter health and safety, and the design and implementation of a departmental safety program. Includes command issues, policies and programs addressing health and safety in emergency situations. This course is written following the National Fire Academy (NFA) FESHE curriculum.

REQUIRED TEXTBOOK (S) and/or MATERIALS:

Title: Occupational Safety and Health in the Emergency Services  
Author: Joseph Bruni  
Publisher: Brady Publishing  
Materials: Notebook, Studyguide
Metropolitan Community College

COURSE OUTLINE FORM

Attached course outline written by: Steven E. Ausdemore  Date: 10/20/2006
Reviewed/Revised by: Jeffrey G. Strawn  Date: 10/13/2012
Effective quarter of course outline: Spring  Date: 2013
Academic Dean: Dr. Stacey Ocander  Date: 2012

Course Objectives, Topical Unit Outlines, and Unit Objectives must be attached to this form.
TITLE:  Occupational Safety and Health for Emergency Services  PREFIX/NO: FIST 1060

COURSE OBJECTIVES:

This course offers a comprehensive program management approach to occupational safety and health issues for instructors, students, safety officers, fire and EMS department managers, and others in the fire and emergency medical services fields. Updated to the latest editions of the NFPA 1500 series standards and adhering to the course objectives within the National Fire Academy (NFA) FESHE curriculum. This course explains the significance and rationale for increasing emphasis on health and safety and provides the education necessary for facing the challenges that lay ahead.

TOPICAL UNIT OUTLINE/UNIT OBJECTIVES:

A. Introduction
B. Safety-Related Regulations and Standards
C. Risk Management
D. Safety Program Development and Management
E. Employee Fitness/Wellness Programs
F. Pre-Incident Safety
G. Safety at Fire Emergencies
H. Safety at EMS Emergencies
I. Safety at Specialized Incidents
J. Post-Incident Safety Management
K. Personal Roles
L. Making it Happen
A. Introduction
   1. History of Occupational Safety and Health in Industry
   2. History of Occupational Safety and Health in Emergency Service Organizations
   3. Identification of Safety Programs
   4. Review of National Injury Statistics
   5. National, State, and Private Organizations involved with Occupational Safety and Health
B. Safety-Related Regulations and Standards
   1. Regulations versus Standards
   2. Federal Regulations pertaining to Occupational Safety and Health
   3. NFPA Standards pertaining to Occupational Safety and Health
C. Risk Management
   1. Risk Evaluation
   2. Risk Control
D. Safety Program Development and Management
   1. Essential Elements
   2. Setting Goals and Objectives
   3. Cost Benefit Analysis
   4. Training
   5. Developing Standard Operating Procedures
   6. Collecting Data
   7. Publishing Health and Safety Information
   8. Evaluating the Results
E. Employee Fitness/Wellness Programs
   1. Hazards Faced
   2. Organizational Development
   3. Employee Acceptance
   4. Medical Examinations
   5. Physical Fitness
F. Pre-Incident Safety
   1. Hazards Faced
   2. Station Safety
   3. Apparatus Safety
   4. Response Safety
   5. Pre-Incident Planning
G. Safety at Fire Emergencies
   1. Hazards Faced
   2. Incident Priorities and Safety
   3. Incident Management Systems
   4. Accountability
   5. Rapid Intervention
   6. Rehabilitation

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H. Safety at EMS Emergencies
   1. Hazards Faced
   2. Infection Control
   3. Personal Protective Equipment
   4. Incident Management Systems
   5. Scene Safety
I. Safety at Specialized Incidents
   1. Hazards Faced
   2. Safety at Hazardous Materials Incidents
   3. Safety at Technical Rescue Incidents
   4. Safety at Terrorism Incidents
   5. Safety at Natural Disasters
J. Post-Incident Safety Management
   1. Incident Termination
   2. Post-Incident Analysis
   3. Critical Incident Stress Management
K. Personal Roles
   1. Individuals
   2. Supervisors
   3. Managers
   4. Incident Commanders
   5. Safety Officers
   6. Safety Program Managers
   7. Safety Committees
L. Making It Happen
   1. Determining, Measuring, and Showcasing the Benefits
   2. Selling Management
   3. Selling Employees
### COURSE OBJECTIVES/ASSESSMENT MEASURES

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<th>COURSE OBJECTIVES</th>
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<tr>
<td>1. Describe the history of occupational health and safety. Identify occupational health and safety programs for industry and emergency services today. Compare the differences between standards and regulations.</td>
<td>1. Unit exam with passing score of 75%</td>
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<td>2. List and describe the components of risk identification, risk evaluation and incident management. Describe the relevance for safety in the workplace including the importance of PPE. Apply the knowledge of an effective safety plan to pre-incident planning, response and training activities.</td>
<td>2. Unit exam with passing score of 75%</td>
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<td>3. Explain the components of an accountability system in emergency service operations. Discuss the need for and the process used for post-incident analysis. Describe the components and value of critical incident management programs.</td>
<td>3. Unit exam with passing score of 75%</td>
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<td>4. Identify and analyze major causes involved in line-of-duty deaths related to health, wellness, fitness, and vehicle operations.</td>
<td>4. Unit exam with passing score of 75%</td>
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5. Describe the responsibilities of individual responders, supervisors, safety officers, incident commanders, safety program managers, safety committees and fire department managers as they relate to health and safety programs. Describe the components of a wellness/fitness plan.

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<td>Unit exam with passing score of 75%</td>
<td>Comprehensive Final Exam</td>
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