Modesto Junior College
Course Outline of Record

FSCI 350

I. OVERVIEW
The following information will appear in the 2010 - 2011 catalog

FSCI 350  Fire Command 1A  2 Units

Prerequisite: Satisfactory completion of FSCI 301 with a minimum grade of C or better.

Fundamental skills for the First-in Incident Commander and company officers. Instruction and simulation time pertaining to the initial decision and action processes at a working fire. Topics include the fire officer, fire behavior, fireground resources, operations, and management.

Materials Fee Required

Student may repeat if required by regulation.
Field trips are not required.  (A-F Only) Lecture /Lab

II. LEARNING CONTEXT
Given the following learning context, the student who satisfactorily completes this course should be able to achieve the goals specified in Section III, Desired Learning:

A. COURSE CONTENT

1. Required Content:

   a. Orientation and Administration
      1. Roles and relationships of the Fire Officer
      2. On the fire ground and related emergency scenes

   b. Fire Command Overview
      1. The psychology of command
      2. Image versus reality
      3. Experience versus knowledge

   c. Fire Chemistry

   d. Fire Phases
      1. Effect of time

   e. Fire Behavior within a structure

   f. Extinguishing Agents
      1. Water
      2. Sources of water supply

   g. Protection Systems

   h. Building Construction

   i. Occupancy Types

   j. Basic Command and Control Concepts
      1. Management principles
      2. Operation principles

   k. Performance Standards
      1. Management by objective
      2. The system model
I. Pre-fire Planning
   1. Local Resources
   2. State and Federal Resources

m. Role of the First-In Officer
   1. Company Operations
   2. Apparatus Placement
   3. Initial Fire Attack

2. Required Lab Content:

   a. Fire Simulation Exercises
      i. Skull Sessions
      ii. Two Dimensional simulation
      iii. Gaming Tables
      iv. Environment
      v. Role Play

   b. Fire Command Case Study 1
      i. Facts Known Prior to the Emergency
      ii. Information Upon Dispatch
      iii. Observed Upon Arrival

   c. First Alarm Responses
      i. Single Family Residence
      ii. Mult-family Residence

   d. Fire Command for Manufacturing Plant
      i. Greater Alarm fires
      ii. Passing of command
      iii. Assignment of resources

   e. Fire Command for hotels and high raise building
      i. Primary Objectives
      ii. Resources needed
      iii. Potential for escalation

3. Recommended Content:
a. Command Overviews
   i. Why Command
   ii. Command Activities
   iii. Human element of command

b. Fire Behavior within structures
   i. Complete and incomplete combustion
   ii. Fire progress within a structure
   iii. The path of least resistance

c. Fire Control Concepts
   i. Extinguishing Agents
      a. Four classes of fire

d. First on Scene
   i. Fireground Safety
   ii. Size up
   iii. Determining Resources Requirements

e. Management Skills
   i. Company Officer
   ii. Performance Standards
   iii. Management by Objectives

B. ENROLLMENT RESTRICTIONS

1. Prerequisites
   Satisfactory completion of FSCI 301 with a minimum grade of C or better.

2. Requisite Skills
   Before entering the course, the student will be able to:
   a. Identify terminology specific to the fire service occupation.
   b. Explain fire service organization structure and its relationship to national, state and local government.
   c. Identify the specialties within the fire service occupation.
   d. Identify the basic concepts of fire behavior, chemistry and extinguishment.
e. Describe the role of education and certification programs.

C. HOURS AND UNITS

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D. METHODS OF INSTRUCTION (TYPICAL)

Instructors of the course might conduct the course using the following method:

1. Related material will be presented through designated class lecture and demonstrations.
2. Additional material will be presented through utilization of an audio-visual fire simulator and other audiovisual aids.
3. Small group discussion and problem solving exercises.
4. Given simulated fire emergency exercises each student will assess, evaluate and solve problems facing the various participants involved in fire fighting incidents.
5. Each student, given a hypothetical problem, will be required to develop a systematic method of formulating strategies and develop a plan of attack.
6. Skull session exercises evaluating the fire simulation exercises of other students.
7. Communication skill practice in high stress situations and scene safety operations.
8. Daily review of fire fighting situations from articles and case studies of emergency incidents.
9. Daily quizzes from textbook material.

E. ASSIGNMENTS (TYPICAL)

1. EVIDENCE OF APPROPRIATE WORKLOAD FOR COURSE UNITS

   Time spent on coursework in addition to hours of instruction (lecture hours)

   a. Study for daily quizzes on ICS
   b. Study for daily table top fire incidents
   c. Review of daily written assignments on forms, memos, fire department operation
   d. Study for daily table top exercises on analyze of potential emergency incidents and develop operational pre-fire plan
   e. Study for State Fire Training Final exam.

2. EVIDENCE OF CRITICAL THINKING

   Assignments require the appropriate level of critical thinking

   a. Select a quiz specific to human resources management and analyze the results
b. Select a group exercise or table top exercise to assess student participation and application of command and control techniques.

c. Develop a checklist to assess the critical elements of the table top or mock exercise to determine if SLO is being met.

d. Review the application of a comprehensive emergency plan for fire fighter safety on table top exercise.

F. TEXTS AND OTHER READINGS (TYPICAL)


III. DESIRED LEARNING

A. COURSE GOAL

As a result of satisfactory completion of this course, the student should be prepared to:

to manage the resources at a fire scene i.e., personal, equipment and staff officers for command. The student will have an overview of the organizational structure used within the fire service, including duties and responsibilities. A review of communication skills appropriate for reporting on conditions and managing resources at all types of emergency scenes. Course will provide opportunities to assess emergency situations and to identify the strategies, tactics and methods necessary to manage given scenarios.

B. STUDENT LEARNING GOALS

Mastery of the following learning goals will enable the student to achieve the overall course goal.

1. Required Learning Goals

Upon satisfactory completion of this course, the student will be able to:

a. Identify the roles and relationships of the officer in charge of the initial attack of an emergency incident.

b. Demonstrate how to initiate and deploy manpower and equipment in a variety of emergency situations.

c. Describe how to utilize the principles of objective management in a variety of emergency situations.

d. Communicate information and decisions when under high stress conditions.

e. Define the roles and relationships of fire service command and control.

f. Identify the utilization of command and control techniques.

g. Evaluate and analyze simulated emergency situations and then apply proper command and control methods.

2. Lab Learning Goals

Upon satisfactory completion of the lab portion of this course, the student will be able to:

a. Define human resource management

b. Describe command and control techniques used in emergency management.

c. Demonstrate communication skills needed for reporting incident conditions and commanding resources at an emergency incident

d. Develop and implement a pre-fire plan and training program and how these affect fire command practices.
e. Describe scene size-up and identify the strategies and tactics used by company officers
f. Analyze and assess causes of firefighter fatalities and injuries and safety measures to protect personal.
g. Demonstrate critical thinking skills and decision making abilities for managing an emergency.

IV. METHODS OF ASSESSMENT (TYPICAL)

A. FORMATIVE ASSESSMENT
   1. Written examinations
   2. Problem solving exercises
   3. Written assignments
   4. Fire simulation situations

B. SUMMATIVE ASSESSMENT
   1. State certification examination