I. Description of Course:

1. Department/Course: FT - 241A5
2. Title: Confined Space Rescue
3. Cross Reference:
4. Units: 0.5
   Lec Hrs: 0.5
   Lab Hrs: 2
   Tot Hrs: 45.00
5. Repeatability: Yes Times: Unlimited
   Per 55040.(b).(8)
6. Grade Options: Pass/No Pass (CR)
7. Degree/Applicability:
   Credit, Not Degree Applicable (C)
8. General Education: 
9. Field Trips: Not Required
10. Requisites:
    Prerequisite
    FT 225 Fire Fighter I Academy or Fire
    Fighter I Academy certificate
11. Catalog Description:
    This course is an intensive hands-on training program that will prepare students to
    respond to confined space emergencies. This course prepares with identifying confined
    spaces and permit-required confined spaces; the hazards associated with permit-required
    confined spaces; target industries and hazards; state and federal regulations; components
    of a rescue operation; and the roles and responsibilities of the rescue team.
12. Class Schedule Description:
    This course is a training program that will prepare students to respond to confined space
    emergencies.
13. Counselor Information:
    This course is a training program that will prepare students to respond to confined space
    emergencies.

II. Student Learning Outcomes
The student will:
1. Recognize regulations governing operations in confined spaces and identify operations
   that make confined spaces dangerous and the differences between confined spaces and
   permit-confined spaces.
2. Identify target industries that routinely have physical or engulfment hazards. Recognize
   the need for respiratory protection in confined space operations.
3. Identify the different types of acceptable communications systems and the equipment
   needed to successfully complete entry and retrieval operations.

III. Course Content:
A. Orientation Module- Lec
   1. Course Introduction
      a. Introduction to CAL/OSHA Regulations
   2. Atmospheric Monitoring - Lec/ Lab
      a. Effects of Hazardous Atmospheres
b. Hazardous Atmosphere  
c. Target Gases and Effects

3. Physical and Engulfment Hazards -Lec/Lab  
   a. Physical Hazards  
   b. Engulfment Hazards  
   c. Target Industries

4. Lock-Out / Tag-Out Procedures and Entry Permits -Lec/Lab  
   a. Entry Permits  
   b. OSHA Exemptions to Permit-Required Regulations

5. Ventilation Equipment and Techniques -Lab  
   a. Ventilation Equipment  
   b. Ventilation Plans  
   c. Ventilation Plan considerations  
   d. Ventilation Plan Hazards  
   e. Ventilation Techniques

6. Respiratory Equipment and Techniques -Lab  
   a. Respiratory Protection Requirements  
   b. Respiratory Protection Classifications  
   c. Respiratory Protection Techniques

7. Communications Equipment and techniques -Lab  
   a. Communications Equipment  
   b. CAL/OSHA Regulations  
   c. Communications Techniques

8. Entrant Retrieval Equipment -Lab  
   a. OSHA requirements for Retrieval Equipment  
   b. Lifting, Lowering and Fall Restraint Equipment

9. Permit Required Confined Space operational Positions and Responsibilities -Lec/Lab  
   a. Duties of attendants  
   b. Duties of Authorized Entrants  
   c. Duties of Entry Supervisors

IV. Course Assignments:

A. Reading Assignments  
   1. Students will review scenario notes and prepare for the following days' scenarios.  
   2. Students will review notes and appropriate pages in their handouts in order to prepare for the upcoming exam.  
   3. Readings from training manual as assigned.

B. Projects, Activities, and other Assignments  
   1. Prepare equipment and review procedures required to deal with a confined space rescue safely and legally in classroom scenarios.

C. Writing Assignments  
   1. Students will complete a Confined Space Entry Permit for spaces that require them in classroom scenarios.

V. Methods of Evaluation:
A. Critique of decision-making and proper procedures and techniques while performing various skills in a Skills Demonstration Exam (SLO: 1,2,3)
B. Evaluation of knowledge of policies, procedures, codes, etc. during a written exam (SLO: 1,2,3)
C. Critique of accuracy and thoroughness of written assignments. (SLO: 1)

VI. Methods of Instruction:
A. Lecture
B. Demonstration
C. Other
   1. Scenario Training
   2. Skills Demonstration

VII. Textbooks:
   Recommended

   Supplemental

VIII. Supplies:
A. None