



Hazardous Materials Response for Confined Space Operations (CSO)

Course Duration:

24 hours (3 days).

Learning Objectives:

Given a 24-hour course on confined space operations, students will be able to describe the duties of an operations-level responder assigned to respond to a confined space incident as outlined in OSHA regulation 29 CFR 1910.146, Permit-Required Confined Spaces.

Target Audience:

The IAFF developed this course for those fire, rescue, Emergency Medical Service (EMS) personnel, and other first responders who may respond to incidents that require confined space operations.

Instructor Qualifications:

The IAFF currently has a team of 92 fire fighter/paramedic master instructors, with an average of 23 years of fire service experience, who specialize in student-centered, active learning techniques. Each master instructor possesses a minimum of five years of fire fighting and HazMat experience before being appointed as an IAFF master instructor. Upon appointment, master instructors participate in the IAFF's Adult Educational Methodology program which includes adult learning principles, target audience characteristics, instructional methodology, and practice using facilitation skills to deliver content and solve any facilitation problems that may arise. Master instructors also receive 3-days of training specific to delivery of the CSO course.

In addition to master instructors, the IAFF prepares local instructors to deliver its courses through its train-the-trainer program. Local instructors interested in attending the train-the-trainer program must satisfy the following prerequisites:

- At least one year of teaching experience
- Certification to the National Fire Protection Association (NFPA) 1041, Standard for Fire Service Instructor Professional Qualifications Level I or equivalent
- Demonstrated ability to teach from prepared materials



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- Training to at least the NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials, First Responder Operations level (or awareness for non-fire service)
- Recent hazardous materials field experience and emergency medical training

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Syllabus

Hazardous Materials Response for Confined Space Operations (CSO) [INA-0001]

This IAFF training is available throughout the United States. To request training, mail, fax or email requests to:

Harold A. Schaitberger, General President
International Association of Fire Fighters
1750 New York Avenue, NW
Washington, DC 20006

Fax: (202) 637-0839 / Email: hazmat@iaff.org

Instructors

The IAFF provides a team of professional instructors, from across the country, composed of fire fighters/EMS personnel/HazMat Team Members. Instructors may be drawn from the national cadre of IAFF Master Instructors or local instructors trained by the IAFF.

Contact information

The IAFF does not provide instructors' contact information. However, students may contact the IAFF HazMat/WMD Training Department for additional course-related information at:

International Association of Fire Fighters
HazMat/WMD Training Department
1750 New York Avenue, NW
Washington, DC 20006

Fax: (202) 737-8484 / Email: hazmat@iaff.org

Prerequisites

Prior training at the Awareness and Operations levels as outlined in OSHA regulation 29 CFR 1910.120 (HAZWOPER) and national consensus standard NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials is assumed to have occurred before enrollment in this course.

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Course Description



Specifically, participants are expected to be knowledgeable in the recognition and identification of hazardous materials, the U.S. Department of Transportation hazardous materials classes, and the use of breathing apparatus and turnout gear.

Course Description

This confined spaces training program for fire fighters is intended to provide students with basic information for confined space responses. The focus is on hazardous atmospheres, because that is often what is confronted in a confined space.

During this course, students learn about confined spaces and the OSHA standard that deals with confined space entry to help students become familiar with its requirements. Students also learn how pre-incident planning can help responders prepare for confined space incidents and how to conduct a pre-plan. Case histories are included to illustrate hazards and hazard control; hands-on demonstrations are included to help teach specific rescue skills using ventilation equipment, rescue equipment, as well as isolation and decontamination techniques.

Course Objectives

After completing this course, students will be able to:

- Identify at least five examples of hazardous confined spaces
- Describe the requirements of the permit space entry program and its components
- Describe the hazards of confined spaces
- Describe procedures for routine confined space entry
- Identify three categories of confined space workers
- List key provisions of the OSHA confined space standard that apply to rescuers

Schedule

The course is divided into six units with the following agenda:

DAY 1

- AM • Unit 1: Confined Space Regulation and Pre-Incident Planning

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Course Description



- PM
- Unit 2: Hazards of Confined Spaces

DAY 2

- AM
- Unit 3: Ventilating Confined Spaces
- PM
- Unit 3: Ventilating Confined Spaces (continued)
 - Unit 4: Confined Space Rescue Equipment and Procedures

DAY 3

- AM
- Unit 4: Confined Space Rescue Equipment and Procedures (continued)
- PM
- Unit 5: Emergency Trench Operations
 - Unit 6: Confined Space Management System

Required Reading

All required reading materials are provided in the Student Manual for the course. Additional suggested readings are included in expanded information sections.

Grading Policies

A pre-test and post-test are administered to determine which topics need more emphasis for a given class. Pre-tests are graded and concepts related to items most frequently missed by students are emphasized by the instructors. Students are also encouraged to note which areas they should focus on for improvement on the post-test.