
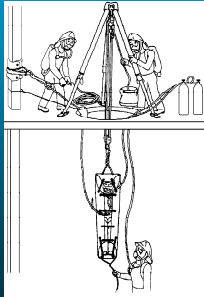


New Jersey State Police
 Homeland Security Branch
 Hazardous Materials Response Unit




CONFINED SPACE OPERATIONS

Course Number 06022



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6/7/2007

NJSP HMRU Confined Space Operations



Course Description

- *Confined Space OPS. is the 2nd level of the confined space training program and the continuation of the hazardous materials training.*
- *Prerequisite is the NJSP-HMRU CS Awareness Class.*
- *Demonstrated ability to tie the basic knots. (see list)*
- *This course is open to any individual and designed to enhance individuals basic and essential information of confined space entry.*

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NJSP/HMRU Confined Space Operations




Introduction - Course Goal

Participants in this course will be able to participate safely in a confined space as a attendant, entrant, supervisor or rescuer.



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New Jersey State Police /HMRU




Course Listing

- First Responder Awareness 4 hrs. 4 ceu
- First Responder Operations 8 hrs. 8 ceu
- EMS Operations 8 hrs. 8 ceu
- LE Operations 21 hrs.
- Haz. Mat. Technician 80 hrs. 24 ceu
- EMS Advanced (Under review).
- On Scene Commander 16 hrs. 16 ceu
- Confined Space Awareness 4 hrs. 4 ceu
- **Confined Space Operations 16 hrs. 8 ceu**
- CAMEO 24 hrs.

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NJSP/HMRU Confined Space Operations



CLASS SCHEDULE

Class is 16 hours in length. Must attend all hours of training.

DAY 1

0800- 0810 hrs.-Orientation

0810-0830 hrs.-Pre-testing

0830-0850 hrs.-Registration


0850-1200 hrs.-Class room lectures

1200-1230 hrs.-Lunch

1230-1630 hrs.-Work Stations

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NJSP/HMRU Confined Space Operations



CLASS SCHEDULE

Class is 16 hours in length. Must attend all hours of training.

DAY 2

0800- 0810 hrs- Orientation/Assignments

0810-1015 hrs.-Station scenario's

1015-1215 hrs.- Station scenario's

1215-1300 hrs.- Lunch

1300-1400 hrs.- Station scenario's

1400-1600 hrs.- Station scenario's

1615-1645 hrs.- Final Exam Close-out

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Equipment Needs

- **YOU WILL NEED**
 1. Approved Hard Hat
 2. Approved Safety Shoes/Boots
 3. Approved Work Gloves
 4. Approved Eye Protection
 5. Approved SCBA or Supplied Air Respirator {SAR}

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NJSP/HMRU Confined Space Operations Overview

- *This course continues where the C.S. Awareness stops.*
- *This program provides a foundation for entry and rescue of individuals who fall victim to conditions or situations involving confined spaces.*
- *This program alone will not complete your training in confined space.*

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NJSP/HMRU Confined Space Operations Table of Contents

- *Module 1 Introduction*
- *Module 2 Air Monitoring*
- *Module 3 Ventilation & Inerting*
- *Module 4 Intro. to Trench Operations*
- *Module 5 Temperature Stress*
- *Module 6 Noise*
- *Module 7 PPE*
- *Module 8 Rescue Consid. & Rigging*
- ◆ *Appendix's*

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NJSP/HMRU Confined Space Operations Overview

- *What is a confined space by definition:*
- *What are the hazards associated with such areas ?*

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NJSP/HMRU Confined Space Operations Module 1

- **OBJECTIVES - Legal Standards**
 - ◆ *Identify the two legal standards that require confined space training.*
 - ◆ *Identify which of the two standards affects them directly.*
 - ◆ *Define a confined space.*

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NJSP/HMRU Confined Space Operations Module 1

- **Regulatory Standards**
 - ◆ *PUBLIC SECTOR - PEOSHA N.J.A.C. 12:100-9*
 - ◆ *PRIVATE SECTOR - OSHA 29 CFR, 1910.146*
- **Guidance Standards**
 - ◆ *ANSI Safety for Confined Spaces - Z117.1*
 - ◆ *NIOSH Working in Confined Spaces & A Guide to Safety In Confined Spaces.*
 - ◆ *NSC National Safety Council*

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APPLICABLE STANDARDS:

LAW	OSHA 29 CFR 1910.146 OSHA 29 CFR 1910.147
REGULATIONS	NJAC 12:100-9 NJAC 12:100-11
REFERENCE and/or Standards	NFPA 1670 NFPA 1006

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NJSP/HMRU Confined Space Operations OSHA Definition

- Are large enough and so configured that an individual can bodily enter and perform assigned work.
- Have limited or restricted routes of entry and exit.
- Are not designed for continuous human occupancy.



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"PERMIT-REQUIRED" SPACES

1. May contain a hazardous atmosphere
2. Engulfment hazards
3. Confusing internal configuration
4. Any other recognized safety hazards



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NJSP/HMRU Confined Space Operations Overview-Hazards Within

- Limited access
- Hazardous atmospheres (poisons, toxic, oxygen deficient / displaced or flammable)
- Energy sources
- Mechanical equipment
- Internally small and confining
- Unstable walls or converging
- Engulfment hazard

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NJSP/HMRU Confined Space Operations Overview-Hazards Within

- Unexpected introduction of materials through uncontrolled openings.



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CONFINED SPACE HAZARDS

- Falling Equipment
- Moving Equipment
- Engulfment Hazards
- Energized Electrical Equipment
- Thermal Stress
- Hazardous Atmospheric
- Slip, Trip, and Fall Hazards
- Limited Clearances
- Poor Lighting
- Noise
- Animals, Rodents
- Biological Hazards
- Residues

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Knowledge and Performance Objectives:

Students will be able to understand and explain the following:

Identification:

- Action Levels
- Confined Space Characteristics
- "Permit Required"
- Atmospheric Hazards
- Routes of Entry
- Team Member Duties
- Breathing Air Systems
- Lockout-Tag out
- Practical evolution/competency

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NJSP/HMRU Confined Space Operations

What is happening here ?



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DEFINITIONS:

- Vapor Density
- Specific Gravity
- LEL (LFL)
- UEL (UFL)
- Permissible Exposure Limit (PEL)
- Immediately Dangerous to Life and Health (IDLH)
- Short Term Exposure Limit (STEL)



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Competency/Performance:

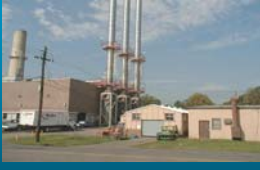
Student will perform and be graded on the following tasks:

- Atmospheric Monitoring
- Vertical Entries
- Horizontal Entries
- Entry Permits
- Ventilation
- Patient Packaging Techniques
- Victim Removal Techniques
- Ability to tie correctly select knots


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What is required to be performed:

Entry



Rescue



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Summary

- A clear understanding of the hazards within a confined space we are better able to make the routine entries a safe operation.
- There are rules and the rules must be followed.
- The rules have come because people have died or have been injured. **(IT IS SIMPLE SAFETY)**

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