

## Course Outline for: **Industrial Confined Space Rescue** **IDLH Environments**

**Course number:** ES00-07

**Course Length:**

16 hours, 2 Days

**Pre-requisites:**

Confined Space Awareness – ES00-02 or ESOL-02  
Lockout / Tagout – ES00-03 or ESOL-03  
Basic Gas Detection – ES00-04  
Confined Space Entry – ES00-05  
CS Non-IDLH Rescue – ES00-06  
OFA Level 1 with Transportation Endorsement









**Course Record:**

Confined Space Rescue, IDLH Environments. Developed by Envirosafety Confined Space Equipment Inc., ©2010

**Texts and Equipment:**

**Required:**

Atmospheric monitor, blower/ventilator, rescue equipment & patient packaging equipment.  
Each Participant must have the following personal protective equipment:

-  NFPA/ANSI Rescue Helmet or CSA/ANSI hat w/chin strap
-  Steel toed footwear
-  Work clothes or coveralls
-  Rope Gloves
-  NFPA Class III Rescue Harness
-  2 x Carabineers (40 KN)
-  Personnel prusik cord (8 mm)
-  CSA fall protection lanyard

**Recommended:**

Confined space entry program, hazard assessment and safe work procedures including the entry permit. (Note: if none are provided we will use example forms similar to the desired entry.) All confined spaces entered during this course require a written site specific hazard assessment and safe work procedures including lock out & isolation procedures (if applicable), and must be developed by a qualified person.

**Provided:**

Mock up entries into Confined Spaces at Envirosafety's Confined Space Training Center.  
Printed copy of WorksafeBC, Part 9 Regulations.

Course workbook, handouts, exercises, exams, pens, wallet certificates, hard hat sticker certificates. Employer will receive copies of all participants' certificates within 24 hours of course completion.

#### Course Description and Goals:

This course is intended for individuals that will be employed as rescue persons in a confined space capacity. After an assessment of your worksite, this training course will be customized specifically for the types of confined spaces you will encounter. It will include competencies from NFPA standards 1006 and 1670 while at the same time meeting WorksafeBC requirements. These competencies include topics such as ropes, hardware, rescue knots, belaying, repelling, patient packaging, lowering and hauling systems, communications, hazard assessments and controls, rescue pre-plans, gas monitoring, ventilation, hazardous materials common to confined spaces, and emergency decontamination procedures. In addition, this course will cover rescue techniques while wearing various types of respiratory protection, including SCBA and airline respirators utilizing air cylinders and breathing air regulated systems. This course includes a significant amount of hands on training with many scenario based exercises, including lifting, hauling, climbing in and around confined and tight spaces, while using supplied air respirators. Prior to registering employers should ensure the physical and mental suitability of its rescue team.

#### Method of course delivery:

20% Lecture & Discussions

20% Demonstration

60% Student Exercises

Student/instructor ratio- 2 instructors per 8 students

#### Evaluation:

20% Participation in Practical scenarios

80% Demonstration of Physical Proficiency / Audit

#### Topics of instruction within this course include, but are not limited to:

- ✚ Confined Space Hazard Assessments
- ✚ Rescue Pre-plans
- ✚ Hazardous Environments
- ✚ Explosive Environments
- ✚ IDLH Environments
- ✚ Supplied Air Systems
- ✚ SCBA & SAR'S
- ✚ Airline Management
- ✚ Rescue Team Roles
- ✚ Patient Protection
- ✚ Patient Air Supply
- ✚ Patient Packaging
- ✚ Decontamination

**Course Learning Outcomes:**

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

- ✚ Define and identify the different types and classes of confined spaces in regards to rescue.
- ✚ Understand the appropriate WorksafeBC regulations in regards to confined space rescue.
- ✚ Demonstrate appropriate hazard recognition and mitigation techniques in regards to rescue.
- ✚ Demonstrate scene management.
- ✚ Understand hazard assessments, safe work procedures, entry permits and rescue plan.
- ✚ Demonstrate proper ventilation techniques.
- ✚ Select and utilize the appropriate PPE in regards to rescue.
- ✚ Select, operate and calibrate gas detection equipment.
- ✚ Demonstrate entrant and attendant responsibilities.
- ✚ Select and operate rescue systems for confined space.
- ✚ Select and operate SAR and/or SCBA systems.
- ✚ Select and operate a communication system.
- ✚ Demonstrate patient packaging.
- ✚ Demonstrate mechanical advantage system.
- ✚ Organize an incident and incident de-mobilization.
- ✚ Plan and implement a confined space rescue.
- ✚ Understand and participate in all team positions.
- ✚ Demonstrate an emergency decontamination.

**Course Policies and Information:**

**Exams:** The minimum score to receive a “pass” in an exam or course is 70%. If a student fails an exam, they may apply for one opportunity to re-write the exam. The student must arrange to take the re-write exam within thirty days of the original exam. Re-write exams will be of a similar nature, scope and content to the original exam, but with new examinable content.

**Practical Exams:** Entry & Rescue are high skill endeavours and most of the examinations will be practical. A student must show individual proficiency in all required competencies to receive a “pass”.