

*Sample Lesson Plan*  
*Construction Industry Training Program*  
**Permit-Required Confined Spaces**

***Introduction***

Many workplaces contain spaces that are considered to be “confined” because their configurations hinder the activities of any employees who must enter into, work in, and exit from them. In many instances, employees who work in confined spaces also face increased risk of exposure to serious physical injury from hazards such as entrapment, engulfment, and hazardous atmospheric conditions. The term permit-required confined space (i.e., permit space) refers to those spaces that meet the definition of a “confined space” and contain health or safety hazards, thereby requiring a permit for entry.

***Instructor’s Activities***

- PowerPoint presentation
- Discuss 29 CFR Part 1910.146
- Participant feedback

***Learning Objectives and Outcomes***

- I. Confined space
  - A. Limited or restricted entry or exit
  - B. Large enough for employee to enter and perform work
  - C. Not designed for continuous occupancy
- II. Permit-required confined space
  - A. Contains or could contain a hazardous atmosphere
  - B. Contains a material that has the potential for engulfing an entrant
  - C. Has internal configuration that might cause an entrant to be trapped or asphyxiated
  - D. Contains any other recognized serious safety or health hazards
- III. Requirements for a written program
  - A. Identify and evaluate hazards before entry
  - B. Test and monitor conditions during entry
  - C. Implement necessary measures to prevent unauthorized entry
  - D. Establish the means, procedures and practices to eliminate or control hazards necessary for safe permit-space entry
  - E. Identify job duties
  - F. Provide, maintain and require all necessary PPE’s
  - G. Ensure at least one outside attendant during entry
  - H. Implement procedures for summoning rescue and emergency services
- IV. Entrant’s training and duties
  - A. Know space hazards
  - B. Use appropriate PPE’s
  - C. Maintain communication with attendants to enable attendant to monitor status
  - D. Exit ASAP when ordered to by authorized personnel or when entrant recognizes warning signs or symptoms of exposure, or when alarm is sounded
  - E. Alert attendant when prohibited conditions or warning signs exist
- V. Attendant’s duties
  - A. Remain outside unless relieved by another authorized attendant
  - B. Perform non-entry rescues when specified
  - C. Know existing and potential hazards
  - D. Maintain communication with and keep an accurate account of workers entering the permit-required space
  - E. Order evacuation when a prohibited condition, when a worker shows signs of physiological effects of hazard exposure, when an outside emergency exists and when the attendant cannot perform required duties
  - F. Ensure that unauthorized persons stay away or exit immediately

- G. Inform entrants and entry supervisor of entry by unauthorized person
- H. Perform no other duties that might interfere with attendant's primary duties

VI. Entry Supervisor's Duties

- A. Know space hazards
- B. Verify emergency plans and specified entry conditions before allowing entry
- C. Terminate entry and cancel permits when entry operations are completed or if a new condition exists
- D. Verify that rescue services are available and that the means for summoning them are operable
- E. Take appropriate measures to remove unauthorized entrants
- F. Ensure that entry operations remain consistent with the entry permit and that acceptable entry conditions are maintained

*References*

**OSHA Standard**

- **29 CFR Part 1910.146 Permit-Required Confined Spaces**

[http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=STANDARDS&p\\_id=9797](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9797)

- **OSHA Publications**

- <http://www.osha.gov/pls/publications/pubindex.list>
- **3138 Permit-Required Confined Spaces**

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