

Review Information
Name of school:
Date of inspection:
Signature of inspector:



Minnesota
STATE COLLEGES
& UNIVERSITIES

Confined Space Program Self-Inspection Checklist

Guidelines: This checklist covers regulations issued by the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) under 29 CFR 1910.146.

General Requirements	Please Underline
1. Have all confined spaces at this facility been evaluated and classified as <ul style="list-style-type: none"> • Permit-required spaces • Non-permit-required confined spaces? [29 CFR 1910.146 (c)(1)]	Y N N/A ??
2. Are all permit-required confined spaces posted "DANGER, PERMIT-REQUIRED CONFINED SPACE, DO NOT ENTER" ? [29 CFR 1910.146 (c) (2)]	Y N N/A ??
3. Is written & implemented confined-space entry program in place? [29 CFR 1910.146 (c) (4)]	Y N N/A ??
4. Is the written program available for inspection by employees or their authorized representatives? [29 CFR 1910.146 (c) (4)]	Y N N/A ??
5. Are there effective measures in place to prevent unauthorized entry into confined spaces?	Y N N/A ??

[29 CFR 1910.146 (c) (3)]	
<p>6. Whenever there are changes either in the use or configuration resulting in increasing hazards to entrants of Non-permit required confined spaces, are these reclassified as Permit-required Confined Spaces? [29 CFR 1910.146(c)(6)]</p>	Y N N/A ??
<p>7. Has following been evaluated for reclassification of Permit-space to Non-permit space</p> <ul style="list-style-type: none"> • Permit space pose no actual or potential atmospheric hazards • All hazards within the space are eliminated without entry into the space • Testing and inspection during the entry demonstrate that hazards within the space have been eliminated? <p>[29 CFR 1910.146 (c)(7)]</p>	Y N N/A ??
<p>8. If the entry in the Permit Space is contracted to outside contractor, have following items been addressed:</p> <ul style="list-style-type: none"> • Informing the contractor about permit spaces • Ensuring the permit space program in place • Apprising contractor of <ul style="list-style-type: none"> ➢ the hazards identified, ➢ experience ➢ precautions to be taken ➢ hazards during entry operations • Co-ordinate the entry operations <p>[29 CFR 1910.146 (C)(8)]</p>	Y N N/A ??
Permit-Required Confined Space Program	Please Underline
<p>9. Does the program implement measures necessary to prevent unauthorized entry? [29 CFR 1910.146 (d)(1)]</p>	Y N N/A ??
<p>10. Are all the hazards of permit spaces identified and evaluated before employees enter them? [29 CFR 1910.146 (d)(2)]</p>	Y N N/A ??
<p>11. For safe permit space entry operations have</p> <ul style="list-style-type: none"> • the means, • procedures and • Practices necessary, been developed and implemented? <ul style="list-style-type: none"> ➢ Specifying acceptable entry conditions ➢ Providing each authorized entrant or that employee's authorized representative with the opportunity to observe any monitoring or testing of permit spaces; ➢ Isolating the permit space ➢ Purging, inerting, flushing, or ventilating the permit space to 	Y N N/A ??

<p>eliminate or control atmospheric hazards; (cont'd)</p> <ul style="list-style-type: none"> ➤ Providing pedestrian, vehicle, or other barriers as necessary to protect entrants from external hazards; ➤ Verifying that conditions in the permit space are acceptable for entry throughout the duration of an authorized entry <p>[29 CFR 1910.146 (d)(3)]</p>	
<p>12. Has following equipment been provided?</p> <ul style="list-style-type: none"> • Testing and monitoring • Ventilating • Communications • Personal Protective • Lighting • Barrier and shields • Rescue and emergency • Other – ladders etc <p>[29 CFR 1910.146 (d)(4)]</p>	<p>Y N N/A ??</p>
<p>13. Have employees who have active roles been designated and their duties identified?</p> <ul style="list-style-type: none"> • Authorized entrants • Attendants • Entry Supervisors • Employees to Test and Monitor confined spaces • Rescue and Emergency Service providers <p>[29 CFR 1910.146 (d)(8)]</p>	<p>Y N N/A ??</p>
<p>14. Have procedures been developed and implemented for</p> <ul style="list-style-type: none"> • Summoning rescue and emergency services • Rescuing entrants from permit spaces • Providing necessary emergency services to rescued employees • Preventing unauthorized personnel from attempting rescue? <p>[29 CFR 1910.146 (d)(9)]</p>	<p>Y N N/A ??</p>
<p>15. Has a system been developed for the</p> <ul style="list-style-type: none"> • Preparation • Issuance • Use and • Cancellation of entry permits? <p>[29 CFR 1910.146 (d)(10)]</p>	<p>Y N N/A ??</p>
<p>16. Have procedures been developed and implemented to co-ordinate entry operations when there are authorized entrants of more than one employer?</p> <p>[29 CFR 1910.146 (d)(11)]</p>	<p>Y N N/A ??</p>

<p>17. Is each canceled entry permit retained for at least one year?</p> <ul style="list-style-type: none"> • Are any problems encountered during entry operations noted on the pertinent permit? <p>[29 CFR 1910.146 (e)(6)]</p>	<p>Y N N/A ??</p>
<p>18. Does the entry permit identify the following?</p> <ul style="list-style-type: none"> • Permit space to be entered • The purpose of entry • Date and the authorized duration of entry permit <p>[29 CFR 1910.146 (f)]</p>	<p>Y N N/A ??</p>
<p>19. Does the Entry permit identify?</p> <ul style="list-style-type: none"> • Authorized entrants • Attendants • Entry Supervisors 	<p>Y N N/A ??</p>
<p>20. Does the Entry permit identify?</p> <ul style="list-style-type: none"> • Hazards of confined space • Measures used <ul style="list-style-type: none"> ➢ to isolate ➢ To eliminate or ➢ Control permit space hazards before entry 	<p>Y N N/A ??</p>
<p>21. Are acceptable entry conditions spelled out in the safe entry procedure?</p> <p>[29 CFR 1910.146 (f) (9)]</p>	<p>Y N N/A ??</p>
<p>22. Are results documented for</p> <ul style="list-style-type: none"> • Initial tests • Periodic tests <p><u>Initialed</u> with <u>time</u> and <u>location</u> of where samples were taken?</p> <p>[29 CFR 1910.146 (f) (10)]</p>	<p>Y N N/A ??</p>
<p>23. Does the entry permit list</p> <ul style="list-style-type: none"> • procedures and • equipment (including phone numbers) <p>For rescue and emergency services?</p> <p>[29 CFR 1910.146 (f) (11)]</p>	<p>Y N N/A ??</p>
<p>24. Are communication procedures included in the entry permit?</p> <p>Used by</p> <ul style="list-style-type: none"> • authorized entrants and • safety attendants <p>[29 CFR 1910. (f) (12)]</p>	<p>Y N N/A ??</p>
<p>25. Are all equipment identified in the entry permit?</p> <ul style="list-style-type: none"> • personal protective equipment, • testing equipment, • alarm systems, and • rescue equipment <p>[29 CFR 1910.146 (f) (14)]</p>	<p>Y N N/A ??</p>

<p>26. Are other permits, such as for hot work, posted with the entry permit? [29 CFR 1910.146 (f) (15)]</p>	<p>Y N N/A ??</p>
<p>Training:</p>	<p>Please Underline</p>
<p>27. Is training provided to ALL employees involved in confined-space entry operations to acquire</p> <ul style="list-style-type: none"> • the understanding, • knowledge, and • skills necessary <p>To perform their duties safely? [29 CFR 1910.146 (g) (1)]</p>	<p>Y N N/A ??</p>
<p>28. Is training provided before the employee is assigned to confined-space entry duties? [29 CFR 1910.146 (g) (2) (i)]</p>	<p>Y N N/A ??</p>
<p>29. Is training provided when there is a <u>change</u> in assigned duties? [29 CFR 1910.146 (g) (2) (ii)]</p>	<p>Y N N/A ??</p>
<p>30. Is training provided <u>before</u> there is a change in permit space operations that presents a hazard about which the employee has not been trained? [29 CFR 1910.146 (g) (2) (iii)]</p>	<p>Y N N/A ??</p>
<p>31 Is additional training provided whenever</p> <ul style="list-style-type: none"> • the employer has reason to believe that there are deviations from safe entry procedures, or • There are inadequacies in the employee's knowledge of the procedures? <p>[29 CFR 1910.146 (g) (2) (iv)]</p>	<p>Y N N/A ??</p>
<p>32 Does training establish employee proficiency in the duties necessary to comply? [29 CFR 1910.146 (g) (3)]</p>	<p>Y N N/A ??</p>
<p>33 Does the employer certify that training required has been accomplished? [29 CFR 1910.146 (g) (4)]</p>	<p>Y N N/A ??</p>
<p>Duties of Authorized Entrants</p>	<p>Please Underline</p>
<p>34. Does the authorized entrant</p> <ul style="list-style-type: none"> • know the hazards may be faced during entry, • information on the mode, • signs or symptoms, and • Consequences of exposure? <p>[29 CFR 1910.146 (h) (1)]</p>	<p>Y N N/A ??</p>
<p>35. Do all authorized entrants know <u>how to use equipment</u> required by the safe entry procedure? [29 CFR 1910.146 (h) (2)]</p>	<p>Y N N/A ??</p>

<p>36. Do all authorized entrants understand the importance of</p> <ul style="list-style-type: none"> • methods of communications with the safety attendant • Evacuating the space promptly if ordered to do so? <p>[29 CFR 1910.146 (h) (3)]</p>	<p>Y N N/A ??</p>
<p>37. Are entrants trained to alert the safety attendant whenever</p> <ul style="list-style-type: none"> • the entrant recognizes any warning sign • symptom of exposure to a dangerous situation, or • Detects a prohibited condition? <p>[29 CFR 1910.146 (h) (4)]</p>	<p>Y N N/A ??</p>
<p>38. Are entrants trained to exit from the permit space as quickly as possible whenever</p> <ul style="list-style-type: none"> • the order is given to evacuate by the safety attendant or supervisor, • they recognize any warning sign • symptom of exposures to a dangerous situation, • they detect a prohibited condition, or • An evacuation alarm is activated? <p>[29 CFR 1910.146 (h) (5)]</p>	<p>Y N N/A ??</p>
<p>Duties of Safety Attendants</p>	<p>Please Underline</p>
<p>39. Does the safety attendant know the</p> <ul style="list-style-type: none"> • hazards that may be faced during entry, including information on the mode, • signs or • symptoms, and • Consequences of exposure? <p>[29 CFR 1910.146 (i) (1)]</p>	<p>Y N N/A ??</p>
<p>40. Are safety attendants trained to be aware of possible behavioral effects of hazard exposure in authorized entrants?</p> <p>[29 CFR 1910.146 (i) (2)]</p>	<p>Y N N/A ??</p>
<p>41. Are safety attendants required to maintain an accurate count of authorized entrants?</p> <p>[29 CFR 1910.146 (i) (3)]</p>	<p>Y N N/A ??</p>
<p>42. Is a roster or tracking system used</p> <ul style="list-style-type: none"> • to maintain an accurate count of authorized entrants, by name, • For the entire duration of the permit? <p>[29 CFR 1910.146 (f) (4)]</p>	<p>Y N N/A ??</p>
<p>43. Are safety attendants trained <u>to remain outside</u> The permit space until relieved by another safety attendant?</p> <p>[29 CFR 1910.146 (i) (4)]</p>	<p>Y N N/A ??</p>

<p>44. Are safety attendants trained</p> <ul style="list-style-type: none"> • to communicate with authorized entrants • to monitor entrant status and • to alert entrants of the need to evacuate the space <p>If conditions warrant?</p> <p>[29 CFR 1910.146 (i) (5)]</p>	<p>Y N N/A ??</p>
<p>45. Are safety attendants trained</p> <ul style="list-style-type: none"> • to monitor activities inside and outside the space • to determine if it is safe for entrants to remain in the space and • to order evacuation of the space immediately <ul style="list-style-type: none"> ➢ if the attendant detects a prohibited condition, ➢ detects behavioral effects of hazard exposure, ➢ detects a situation outside the space that could endanger entrants, or ➢ If the safety attendant cannot perform all the duties required herein? <p>[29 CFR 1910.146 (i) (6)]</p>	<p>Y N N/A ??</p>
<p>46. Are safety attendants trained to summon rescue personnel as soon as the attendant determines that entrants may need assistance to escape from permit space hazards?</p> <p>[29 CFR 1910.146 (i) (7)]</p>	<p>Y N N/A ??</p>
<p>47. Are safety attendants trained to warn unauthorized personnel that they must stay out of and away from the permit space?</p> <p>[29 CFR 1910.146 (i) (8)]</p>	<p>Y N N/A ??</p>
<p>48. Are supervisors and authorized entrants notified if unauthorized persons have entered the permit space?</p> <p>[29 CFR 1910.146 (i) (8) (iii)]</p>	<p>Y N N/A ??</p>
<p>49. Are safety attendants trained to perform non-entry rescues as specified in the safe entry procedure?</p> <p>[29 CFR 1910.146 (i) (9)]</p>	<p>Y N N/A ??</p>
<p>50. Are safety attendants prohibited from performing duties</p> <ul style="list-style-type: none"> • might interfere with their primary duty to monitor and • Protect authorized entrants? <p>[29 CFR 1910.146 (h) (1)]</p>	<p>Y N N/A ??</p>

Duties of Entry Supervisors	Please Underline
<p>51. Are entry supervisors trained</p> <ul style="list-style-type: none"> • to recognize hazards that may be faced during entry • the mode, signs, or symptoms, of exposure • Consequences of exposure? <p>[29 CFR 1910.146 (j) (1)]</p>	<p>Y N N/A ??</p>
<p>52. Do supervisors verify by checking entries made on the permits that</p> <ul style="list-style-type: none"> • all tests have been conducted and • all tests specified by the permit are in place <p>Before endorsing the permit and allowing the entry to begin?</p> <p>[29 CFR 1910.146 (j) (2)]</p>	<p>Y N N/A ??</p>
<p>53. Does the entry supervisor</p> <ul style="list-style-type: none"> • terminate entry and • cancel the entry permit <p>When the entry operations have been completed?</p> <p>[29 CFR 1910.146 (e) (5) (i)]</p>	<p>Y N N/A ??</p>
<p>54. Does the entry supervisor</p> <ul style="list-style-type: none"> • terminate entry and • cancel the permit <p>When a condition that is not allowed under the entry permit arises in or near the permit space?</p> <p>[29 CFR 1910.146 (e) (5) (ii)]</p>	<p>Y N N/A ??</p>
<p>55. Does the entry supervisor</p> <ul style="list-style-type: none"> • verify that rescue services are available and • That means for summoning them are operable? <p>[29 CFR 1910.146 (j) (4)]</p>	<p>Y N N/A ??</p>
<p>56. Do supervisors <u>remove unauthorized persons</u> who enter or attempt to enter the permit space?</p> <p>[29 CFR 1910.146 (j) (5)]</p>	<p>Y N N/A ??</p>
<p>57. Does the entry supervisor determine that</p> <ul style="list-style-type: none"> • operations within the confined space remain consistent with terms of the entry permit at reasonable intervals and • Whenever responsibilities are transferred to another supervisor? <p>[29 CFR 1910.146 (j) (6)]</p>	<p>Y N N/A ??</p>

Rescue and Emergency Services	Please Underline
<p>58. Does the employer ensure that each member of the rescue service is</p> <ul style="list-style-type: none"> • provided personal protective equipment • rescue equipment necessary • trained in the use <p>For making rescues from permit spaces? [29 CFR 1910.146 (k) (1) (I)]</p>	<p>Y N N/A ??</p>
<p>59. Has each member of the rescue service been trained</p> <ul style="list-style-type: none"> • to perform the assigned rescue duties • As an authorized entrant? <p>[29 CFR 1910.146 (k) (1) (ii)]</p>	<p>Y N N/A ??</p>
<p>60. Do ALL members of rescue services practice making rescues</p> <ul style="list-style-type: none"> • Of dummies or actual persons from actual permit spaces • At least every 12 months? <p>[29 CFR 1910.146 (k) (1) (iii)]</p>	<p>Y N N/A ??</p>
<p>61. Is each member of the rescue service trained in</p> <ul style="list-style-type: none"> • basic first-aid and in • Cardiopulmonary resuscitation (CPR)? <p>[29 CFR 1910.146 (k) (1) (iv)]</p>	<p>Y N N/A ??</p>
<p>62. Is at least one member of the rescue service holding a current certification in first aid and CPR required to be available?</p> <p>[29 CFR 1910.146 (k) (1) (iv)]</p>	<p>Y N N/A ??</p>
<p>63. Are all rescue personnel briefed to inform them of hazards they may confront while performing a rescue from confined space?</p> <p>[29 CFR 1910.146 (k) (2) (i)]</p>	<p>Y N N/A ??</p>
<p>64. Does the employer provide access for rescue services to ALL permit-required confined spaces in the facility, So the rescue service would be developed with</p> <ul style="list-style-type: none"> • appropriate rescue plans and • Practiced rescue operations? <p>[29 CFR 1910.146 (k) (2) (ii)]</p>	<p>Y N N/A ??</p>
<p>65. Are the non-entry rescue and retrieval systems or methods used whenever an authorized entrant enters a confined space? [29 CFR 1910.146 (k) (3)]</p> <p>Note: Non-entry rescue be used except when retrieval equipment would increase overall risk or would not contribute to the rescue of the entrant.</p>	<p>Y N N/A ??</p>

<p>66. Is each authorized entrant required to wear</p> <p>A full body harness with a retrieval line attached</p> <ul style="list-style-type: none"> • At the center of the back near shoulder level or • Above the entrant's head? <p>[29 CFR 1910.146 (k) (3) (i)]</p> <p>Note: Wristlets may be used, if the employer can demonstrate that full body harness</p> <ul style="list-style-type: none"> • Is not feasible • Creates greater hazards • Wristlets are safest and most effective alternatives 	<p>Y N N/A ??</p>
<p>67. Is the other end of the retrieval line required to be attached</p> <ul style="list-style-type: none"> • to a mechanical device or • fixed point outside the permit space <p>So the rescue begins as soon as the rescuer becomes aware that rescue is necessary?</p> <p>[29 CFR 1910.146 (k) (3) (ii)]</p> <p>Note: A mechanical device shall be available to retrieve personnel from vertical type permit spaces more than 5 feet deep.</p>	<p>Y N N/A ??</p>
<p>68. Is the requirement highlighted, if an injured entrant is exposed to a substance for which a Material Safety Data Sheet (MSDS) or other similar written information is required to be kept at the worksite, that MSDS or written information must be made available to the medical facility treating the exposed entrant?</p> <p>[29 CFR 1910.146 (k) (4)]</p>	<p>Y N N/A ??</p>
<p>Confined-Space Pre-entry</p>	<p>Please Underline</p>
<p>69. Did you survey the surrounding area to show it to be free of hazards such as</p> <ul style="list-style-type: none"> • drifting vapors from tanks, • piping, or • sewers? 	<p>Y N N/A ??</p>
<p>70. Does your knowledge of</p> <ul style="list-style-type: none"> • industrial or • other discharges <p>indicate this area is likely to remain free of air contaminants while occupied?</p>	<p>Y N N/A ??</p>
<p>71. Are you certified in operation of the gas monitor to be used?</p>	<p>Y N N/A ??</p>

<p>72. Has a gas monitor functional test been performed this shift on the gas monitor to be used?</p>	<p>Y N N/A ??</p>
<p>73. Did you test the atmosphere of the confined space prior to entry?</p> <ul style="list-style-type: none"> • Was oxygen content between 19.5-23.5 %? • Was flammable vapor less than 10 % of LEL/LFL? • Were tests for toxic materials less than TLV/PEL? 	<p>Y N N/A ??</p>
<p>74. Have all sources of hazards been isolated from the confined space?</p> <ul style="list-style-type: none"> • Have all pipes been blanked? • Have electrical and mechanical hazards been locked and blocked? 	<p>Y N N/A ??</p>
<p>75. Is all rescue equipment called out in the safe entry procedure available outside the confined space?</p>	<p>Y N N/A ??</p>
<p>76. Will the atmosphere be continuously monitored while the space is occupied, if required by entry procedure?</p>	<p>Y N N/A ??</p>
<p>77. Have the facility emergency and rescue services been notified that a confined space entry is about to be made?</p> <p>NOTICE: If any of the above questions are answered "Action Needed," do not enter the confined space until the conditions are corrected.</p>	<p>Y N N/A ??</p>
<p>78. Supervisor/Lead Man _____</p>	<p>Y N N/A ??</p>
<p>Confined-Space-Entry Safety Work Permit</p>	<p>Please Underline</p>
<p>79. General Information</p> <ul style="list-style-type: none"> • Identify permit space to be entered. • Purpose of entry. • Time of authorized entry. _____ am/pm • Authorized duration: <ul style="list-style-type: none"> ➢ Start Time _____ am/pm ➢ End Time _____ am/pm • Entrants' names and employee numbers: • Work Location: • Equipment to be worked on: • Description of job: • Hazards of the permit space: 	<p>Y N N/A ??</p>

<p>80. Measures Used To Isolate the Permit Space:</p> <ul style="list-style-type: none"> • Are electrical sources secured per Lockout/Tagout? • Mechanical lockout/blockout • Blanking/disconnect 	<p>Y N N/A ??</p>
<p>81. Acceptable Entry Conditions:</p> <p>(a) Documentation of</p> <ul style="list-style-type: none"> • Acceptable oxygen content to be 19.5-23.5 %. • Make and model of oxygen tester • Calibration Date • Measured oxygen content. • Person performing test 	<p>Y N N/A ??</p>
<p>82. Acceptable Entry Conditions:</p> <p>(b) Documentation of</p> <ul style="list-style-type: none"> • Flammable gas < 10% • Vapor < 10% • dust concentrations <10% of LEL/LFL. • Make and model of flammability tester • Calibration Date • Measured flammability as percent of LEL/LFL. • Name of the person performing test 	<p>Y N N/A ??</p>
<p>83. Acceptable Entry Conditions:</p> <p>(c) Documentation of</p> <ul style="list-style-type: none"> • Acceptable toxicity levels are those listed in the approved entry procedure. • Make and model of toxicity testers • Calibration Date • Name of the person performing test 	<p>Y N N/A ??</p>
<p>84. Acceptable Entry Conditions:</p> <p>(d) Ventilation: Powered fresh air ventilation is functioning properly</p>	<p>Y N N/A ??</p>
<p>85. Acceptable Entry Conditions:</p> <p>(e) Temperature: There is safe working temperature in the confined space.</p>	<p>Y N N/A ??</p>
<p>86. Acceptable Entry Conditions:</p> <p>(f) Exhaust air is directed away from work areas.</p>	<p>Y N N/A ??</p>

<p>87. Acceptable Entry Conditions:</p> <p>(g) Hot Work Permit is required for</p> <ul style="list-style-type: none"> • open flame torches, • electric heater, • arc, or flame welders, • flame, or spark-producing devices. 	<p>Y N N/A ??</p>
<p>88. Power Tool Use</p> <ul style="list-style-type: none"> • Are portable electric tools double insulated or GFCI protected? 	<p>Y N N/A ??</p>
<p>89. Power Tool Use</p> <ul style="list-style-type: none"> • Are electrical power cords routed so that personnel working in the confined space will not trip over them? 	<p>Y N N/A ??</p>
<p>90. Personal Protective Equipment</p> <p>Are the following items below used as required by entry procedure?</p> <p>Air-purifying respirator _____ Air-supplied respirator _____</p> <p>Head/eye protection _____ Hand/foot protection _____</p> <p>Protective clothing _____ Hearing protection _____</p> <p>Portable shower/eyewash _____ Harness/rope _____</p> <p>Continuous personal monitor ____ Rescue equipment _____</p>	<p>Y N N/A ??</p>
<p>91. Rescue (Call 911)</p> <p>(a) Name of safety attendant _____</p> <p>(b) Means of communication with emergency rescue services: Phone _____ Radio _____</p> <p>(c) Means of communication with entrant(s): Voice _____ Radio _____</p> <p>(d) Continuous visual contact with entrants _____</p>	<p>Y N N/A ??</p>
<p>92. Special Restrictions / Instructions</p> <p>_____</p> <p>_____</p> <p>Approvals</p> <p>Signatures below indicate that all entrants and safety attendants have current training, physical examinations, and that all requirements of this permit are fulfilled.</p> <p>_____</p> <p>Supervisor/Lead Man Safety Attendant</p>	<p>Y N N/A ??</p>

Permit-required confined space (permit space) means a confined space that has one or more of the following characteristics:

- Contains or has a potential to contain a hazardous atmosphere;
- Contains a material that has the potential for engulfing an entrant;
- Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section; or
- Contains any other recognized serious or health hazard.

Non-Permit confined space means a confined space that does not contain or, with respect to atmospheric hazards, have the potential to contain any hazard capable of causing death or serious physical harm.

Hazardous atmosphere means an atmosphere that may expose employees to the risk of death, incapacitation, and impairment of ability to self-rescue (escape unaided from a permit space), injury, or acute illness from one or more of the following causes:

Flammable gas, vapor, or mist in excess of 10 percent of its lower flammable limit (LFL).

Airborne combustible dust at a concentration at a concentration that meets or exceeds its LFL.

Atmospheric oxygen concentration below 19.5 percent or above 23.5 percent.

Atmospheric concentration of any substance for which a dose or a permissible exposure limit is published in Subpart G, Occupational Health and Environmental Control, or in Subpart Z, Toxic and Hazardous Substances, of this Part and which could result in employee exposure in excess of its dose or permissible exposure limit;

NOTE: An atmospheric concentration of any substance that is not capable of causing death, incapacitation, impairment of ability to self-rescue, injury, or acute illness due to its health effects is not covered by this provision.

Any other atmospheric condition that is immediately dangerous to life or health.

Immediately dangerous to life or health (IDLH) means any condition that poses an immediate or delayed threat to life or that would cause irreversible adverse health effects or that would interfere with an individual's ability to escape unaided from a permit space.

NOTE: Some materials -- hydrogen fluoride gas and cadmium vapor, for example -- may produce immediate transient effects that, even if severe, may pass without medical attention, but are followed by sudden, possibly fatal collapse 12-72 hours after exposure. The victim "feels normal" from recovery from transient effects until collapse. Such materials in hazardous quantities are considered to be "immediately" dangerous to life or health.

Retrieval system means the equipment (including a retrieval line, chest or full-body harness, wristlets, if appropriate, and a lifting device or anchor) used for non-entry rescue of persons from permit spaces.

Comments/Corrective action: