












# Confined Space Services

SPECIALISTS IN ALL ASPECTS OF CONFINED SPACES

## Common Hazardous Gases Found in Confined Spaces

<b>C<sub>2</sub>H<sub>4</sub>O</b>	Ethylene Oxide	<b>H<sub>2</sub></b>	Hydrogen
<b>C<sub>2</sub>H<sub>5</sub>OH</b>	Ethanol	<b>H<sub>2</sub>S</b>	Hydrogen Sulfide
<b>C<sub>3</sub>H<sub>8</sub></b>	Propane	<b>HCL</b>	Hydrogen Chloride
<b>C<sub>4</sub>H<sub>10</sub></b>	Butane	<b>HCN</b>	Hydrogen Cyanide
<b>C<sub>5</sub>H<sub>12</sub></b>	Pentane	<b>N<sub>2</sub></b>	Nitrogen
<b>C<sub>6</sub>H<sub>14</sub></b>	Hexane	<b>NH<sub>3</sub></b>	Ammonia
<b>CH<sub>4</sub></b>	Methane	<b>NO</b>	Nitric Oxide
<b>CL<sub>2</sub></b>	Chlorine	<b>NO<sub>2</sub></b>	Nitrogen Dioxide
<b>CLO<sub>2</sub></b>	Chlorine Dioxide	<b>O<sub>2</sub></b>	Oxygen
<b>CO</b>	Carbon Monoxide	<b>O<sub>3</sub></b>	Ozone
<b>CO<sub>2</sub></b>	Carbon Dioxide	<b>PH<sub>3</sub></b>	Phosphine

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<b>Oxygen</b> <b>O<sub>2</sub></b>  Below 19.5% is oxygen depleted. Above 23.5% is oxygen enriched.	<b>Methane</b> <b>CH<sub>4</sub></b>  An asphyxiant. Oxygen levels should be kept above 19.5%.	<b>Hydrogen Sulfide</b> <b>H<sub>2</sub>S</b>  Very hazardous. Heavier than air, tends to pool. Flammable. LEL of 4%.
<b>Carbon Monoxide</b> <b>CO</b>  An asphyxiant. Permissible Exposure Limit, (PEL) is 50 PPM over 8 hour TWA.	<b>Nitrogen</b> <b>N<sub>2</sub></b>  An asphyxiant. Used as an Inerting Agent replacing oxygen in the air.	<b>Ammonia</b> <b>NH<sub>3</sub></b>  Causes damage to respiratory system, eyes, skin. 50 PPM PEL 8 Hour TWA.
<b>Acetylene</b> <b>C<sub>2</sub>H<sub>2</sub></b>  Lighter than air. Highly flammable, used for welding. LEL of 2.5%.	<b>Carbon Dioxide</b> <b>CO<sub>2</sub></b>  An asphyxiant. PEL is 5,000 PPM over 8 hour TWA.	<b>Chlorine</b> <b>Cl<sub>2</sub></b>  Greenish-yellow gas with pungent odor. 1 PPM PEL over 8 hour TWA.