

Hydrogen Sulfide Level II

Duration	1 day
Target group	Supervisors of work or operatives that have to enter work spaces or direct tasks in spaces with risk of spontaneous generation, fugitive emissions, entrainment or handling of sulphydric acid (H ₂ S).
Prerequisites	Not applicable
Objective	<p>Upon completion of the course the delegate will be able to:</p> <ul style="list-style-type: none"> Recognize the nature of Hydrochloric Acid. Know the chemistry of hydrogen sulfide. Identify the physicochemical characteristics of H₂S. Recognize the risks posed by an atmosphere contaminated with hydrogen sulfide. Apply the basic techniques for the detection of hydrogen sulfide. Recognize and apply the security measures and corresponding emergency response. To resort to techniques for locating and rescuing people engasadas with hydrogen sulfide.
Contents	<p>The following topics are covered during the training:</p> <p>Introduction. Course objective. Definitions.</p> <p>Generalities of Hydrochloric Acid. Geological origin of H₂S. Natural formation based on Organic matter. Function in oil formations and oil processes. General Industrial Uses.</p> <p>Characteristics and physical-chemical properties. Safety data Sheet.</p> <p>Identification of risks, SGA.</p> <p>Toxicology of Hydrochloric Acid. Permissible Exposure Limit, PEL.</p> <p>Threshold Limit Value, 8hrs. Threshold Limit Value, 15 min. Immediately Dangerous To Life or Health (IDLH).</p> <p>Inflammability of H₂S.</p> <p>Additional risks. Combustion gases derived from the burning of H₂S.</p> <p>Stacking Phenomenon Solubility.</p> <p>Detection and warning equipment.</p> <p>Personal protection equipment. Autonomous Breathing Equipment, Inspection and Use. Other elements of Specific Protection.</p> <p>Rescue and First Aid in Case of Exposure to Hydrochloric Acid.</p> <p>Emergency Response Plan in Presence of Hydrochloric Acid.</p>
Exam	The delegate must demonstrate competence in the development and use of the detection techniques of Atmospheres contaminated with Hydrogen Sulfide and in the efficient placement of SCBA