



## **Certified Hydrogen Sulfide (H<sub>2</sub>S) Safety Specialist (CH<sub>2</sub>ST)**

**Course Credential: Certified Hydrogen Sulfide (H<sub>2</sub>S) Safety Specialist (CH<sub>2</sub>ST)**

**Course Length: 3 Days**

**Course Fees: \$795.00**

**Continuing Education Credits: 2.5**

Note: Refresher certification is required every three years to maintain professional credential.)

### **Course Introduction:**

Hydrogen Sulfide (H<sub>2</sub>S) is known as an insidious killer and goes by a number of unsavory names: sour gas, meadow gas, stink damp, Devil's Breath, and sulfureated hydrogen. It is a colorless gas that can be routinely found around decaying organic material and in some oil and gas operations. It smells like rotten eggs at extremely low concentrations, but it quickly, though temporarily, kills the sense of smell at higher concentrations. (This property gives a false sense of security to the unsuspecting.) H<sub>2</sub>S is a highly-hazardous gas which rapidly renders its unfortunate victims unconscious, paralyzes the respiratory system, and then causes death in a matter of just a few minutes.

However you can work safely in H<sub>2</sub>S environments if you are properly trained, utilize appropriate engineering precautions, and are equipped with the proper personal protective equipment.

### **Course Description**

It is essential that employees who work in oil & gas petroleum and natural gas industries, utilities, research and development area, laboratories, transportation, paper/pulp/food processing, chemical manufacturing, tanning industries, waste disposal and other industries where the hazard of Hydrogen Sulfide Gas can be present.

### **Student Learning Objectives:**

- Become knowledgeable about the OSHA, American National Standards Institute **ANSI** /ASSE Z390.1-2006 (R2010) and American Petroleum Industry regulations applicable to Hydrogen Sulfide Gas
- Understands the physical and chemical properties of H<sub>2</sub>S gas and the health effects it can have on the body
- Understand the use of Personal Protective Equipment (PPE) for Hydrogen Sulfide exposure controls knowledgeable on how to respond in the event of a Hydrogen Sulfide Exposure H<sub>2</sub>S Gas exposure.
- Learn the skills, knowledge, and techniques to develop and provide site-specific, technical skill-level Hydrogen Sulfide (H<sub>2</sub>S) training programs.

### **Topics Covered:**

- How to develop an effective presentation
- Proper training techniques
- Physical and chemical properties of H<sub>2</sub>S
- Safe work procedures for hydrogen sulfide
- Federal and state regulations and consensus standards
- ANSI/ASSE Z390.1
- Contingency and emergency response plans
- Dispersion models
- Burning and flaring attributes and hazards
- Methods of detection and monitoring
- Human physiology and respiratory protection

**Who Should Attend This Course:**

- General Industry & Construction workers
- Maintenance workers
- Managers & Supervisors
- Safety Managers,
- Safety & Health Committee Members
- Industrial Hygienist
- Environmental Professionals
- Risk Managers,
- Oil Drilling and Refinery Workers
- Sanitation Workers
- Utility Workers

**Testing:**

Students completing the course must take a proctored final exam. A score of 80% on the final exam is necessary to receive your personalized certificate of completion. The student gets three (3) attempts to pass the

Note: Student must develop and teach a 20 minute presentation

