

# PEC H<sub>2</sub>S CLEAR



HOURS	PREREQUISITE	HANDS-ON TRAINING	REFRESHER TRAINING
4	NO	DEMONSTRATION VIDEOS	YES – REQUIRED ANNUALLY

## PEC H<sub>2</sub>S CLEAR COVERS

- ACGIH’s New TLV
- ANSI/ASSE Z390.1-2017
- API RP 49
- API RP 55
- MMS 250.490
- The Railroad Commission of Texas

## SUMMARY

This course is designed to provide clear instruction on the clear and present dangers of H<sub>2</sub>S – a hazard you cannot see. PEC H<sub>2</sub>S Clear will help students identify the physical and chemical properties, sources, symptoms, and hazards of hydrogen sulfide (H<sub>2</sub>S). Students will learn about H<sub>2</sub>S routes of exposure, as well as the proper selection, use, and maintenance of personal and respiratory protective equipment. Students will learn about workplace warnings, practices, and maintenance procedures to protect personnel from exposure to H<sub>2</sub>S. H<sub>2</sub>S detection and monitoring systems are introduced. Students will also learn about emergency response procedures, corrective actions, and shutdown procedures which may be necessary in the event of a H<sub>2</sub>S emergency.

## CERTIFICATIONS

Upon successful completion of the course, students receive their PEC ID card. The back of the card reflects PEC courses successfully completed by the student. Employers may also verify course completion by visiting [www.peccard.com](http://www.peccard.com).

## COURSE EVALUATION

Students will receive a written exam to verify their competency in the instruction provided in PEC H<sub>2</sub>S Clear.

## COURSE COMPONENTS

PEC H<sub>2</sub>S Clear covers the following:

- Buddy System
- Burning, Flaring, and Venting
- Characteristics of Hydrogen Sulfide
- Chemical Properties
- Corrective Actions and Shutdown Procedures
- Dispersion Models
- Effects of Hydrogen Sulfide on Metals
- Emergency Response and Evacuation
- Emerging Technology
- Engineering Controls
- First Aid and Post-exposure Evaluation
- Hydrogen Sulfide in Confined Spaces
- Hazard Communication for Hydrogen Sulfide
- Hazards of Hydrogen Sulfide and Sulfur Dioxide
- Health Effects
- Ignition Sources
- Methods for Detecting and Monitoring
- Operation of Safety Equipment and Life Support Systems
- Personal Protective Equipment
- Physical Properties
- Process Safety Management of Highly Hazardous Chemicals
- Rescue Techniques
- Respiratory Protection
- Sources of Hydrogen Sulfide
- State and Federal Regulatory Requirements
- Transportation
- Ventilation
- Warning Signs
- Warning Systems
- Well Control (Drilling Operations)
- Wind Direction
- Work Procedures

**DISCLAIMER** – Students completing this course have not met the requirements to work in H<sub>2</sub>S environments above the Occupational Exposure Limits (OEL) until such time as the employer provides and documents additional, applicable training required by 29CFR, including medical evaluation, fit test, and use of respirator, monitor and rescue equipment specific to the work place.