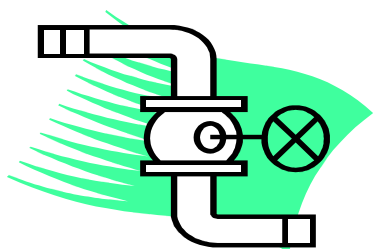


# H2S

**Presented by: Albert Pelasai**

# H2S Awareness

## How Is Hydrogen Sulfide Formed?



**H<sub>2</sub>S is a by-product formed when organic matter decays.**

**Hydrogen Sulfide is generated as a common by-product of industrial and manufacturing processes.**

**Hydrogen Sulfide is formed under low oxygen conditions when sufficient amounts of sulfur and bacteria are present. H<sub>2</sub>S can be formed in many places such as:**

- **Oil and gas reservoirs.**
- **Sewers and sewage processing facilities.**
- **Dark damp places where bacteria is present.**

# Where Is Hydrogen Sulfide Found?

**Hydrogen Sulfide can be found almost anywhere that oil, water, and gas are produced.**

**Examples are:**

Production Separators

Vapor Recovery Units

Sulfur Removal Systems

Flotation Cells

Water Knock-Outs

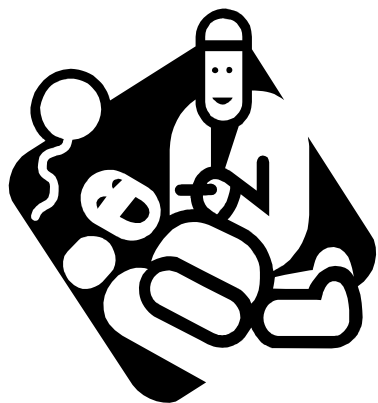
Wellheads or Tanks

Heater Treaters

Pits, Cellars or Sewers.



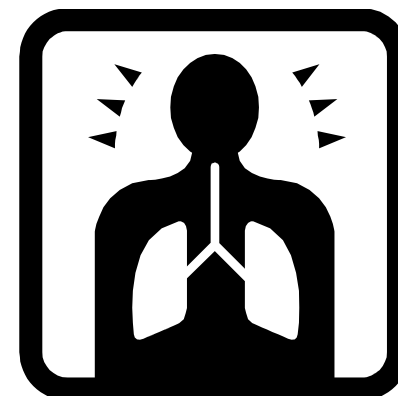
# What are the Health Hazards of H<sub>2</sub>S?



**Hydrogen Sulfide can have an array of health effects on the body depending on exposure concentrations.**

**H<sub>2</sub>S will enter through the lungs and is considered a chemical asphyxiate.**

**It blocks the transfer of oxygen to the blood cells and causes paralysis of the respiratory system.**



# Exposure Limits



Here are the Hydrogen Sulfide ( $H_2S$ ) exposure limits.

**Permissible Exposure Limit: 10 ppm for an 8-hr period avg.**

**Short Term Exposure Limit: 15 ppm for a 15-minute avg.**

**Immediately Dangerous to Life or Health: 100 ppm**

# Escape Guidelines:

**Should a release occur here are some escape guidelines you must follow.**

- **Know the alarm systems.**
- **Know where the potential sources for H<sub>2</sub>S are located.**
- **Know the wind direction at all times.**
- **Escape by getting upwind to a higher elevation (if possible) from the source.**
- **When escaping, always go cross wind and around the source.**
- **Never go directly upwind (you may be running into the source).**

Timestamp	Your Full Name	Position	Name of Trainers	Training Topics	This training is useful in my work	How was the delivery of the training content by the presenter? [Jolly Jackson]	How was the delivery of the training content by the presenter? [Lester Jake]	How was the delivery of the training content by the presenter? [Albert Pelasai]	Overall, the training was a worthwhile learning experience
7/5/2024 10:08:26	Alleyson Akin	Operation Support	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Good	Good	Good	Agree
7/5/2024 10:08:33	Bennylove Benjamin	SLS Assistant	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Very Good	Very Good	Very Good	Agree
7/5/2024 10:09:13	Jolly Jackson	SLS Assistant	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Very Good	Very Good	Very Good	Agree
7/5/2024 10:09:21	Amir Hakim	SLS Trainee Assistant	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Very Good	Very Good	Very Good	Agree
7/5/2024 10:09:32	Ag Mohd Adhwa Adly	Operation Support	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Good	Good	Good	Agree
7/5/2024 10:09:57	Lester	SLS Assistant	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Very Good	Very Good	Very Good	Agree
7/5/2024 10:10:02	Leanard janggu brian	SLS Trainee Operator	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Good	Good	Good	Agree
7/5/2024 10:10:28	MUHAMAD ZUL EZWAN BIN TAMBIKHA	Operation Support	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Very Good	Very Good	Very Good	Agree
7/5/2024 10:11:04	Havbreen Zephirinus	Operation Support	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Very Good	Very Good	Very Good	Agree
7/5/2024 10:11:26	FADZLIN MOHAMAD IBRAHIM	Operation Support	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Good	Good	Very Good	Agree
7/5/2024 10:13:00	Larry David Gau	SLS Trainee Assistant	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Very Good	Very Good	Very Good	Agree
7/5/2024 10:13:10	Albert ak pelasai	SLS Assistant	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Average	Average	Average	Agree
7/5/2024 10:13:22	Mohd Jaidun bin hamit	SLS Operator	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Very Good	Very Good	Very Good	Agree
7/5/2024 10:28:07	Yuzie Yussof	SLS Operator	Jolly Jackson, Lester Jake, Albert Pelasai	GS Pulling Tools, Intro to SLS Equipment, SB Pulling Tools	Agree	Good	Good	Very Good	Agree